

Piggyback No. 5: Portable, Modular, and Pre-Fabricated Solutions

TAB B: *Modular Components*



TAB B: MODULAR COMPONENTS, Bid Option 2 (Must include TABs B-D)

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GOODS' DELIVERY & TIMEFRAME

Material delivery timeframes from date or receipt of Purchase Order and DSA Approved Plans to be no more than 16 weeks.

Should the material delivery date extend beyond 30-calendar days from the contractual delivery date, client is subject to material price increase of no more than 10%.

Freight costs included to the following counties:

Sonoma, Marin, San Francisco, San Mateo, Santa Cruz, Santa Clarita, Alameda, Contra Costa, San Joaquin, Stanislaus, Merced, Fresno, Solano, Napa, Sacramento, Yolo, El Dorado, Placer, Santa Barbara, Ventura, Los Angeles, Orange, San Diego, Riverside, San Bernardino

All areas outside the listed counties in the State of California are subject to a 20% freight charge.

--- END OF GOODS' DELIVERY TIMEFRAME ---

INCLUSIONS AND EXCLUSIONS

INCLUSIONS –

Vendor Kit Wall Panels

1. Providing all pre-assembled wall panels, including mud sill, studs and posts as required, top sill, double top plate as required, sheathing, and 2x4/Ply wood furring.
2. Providing routed holes through mud sill to allow for anchor bolt/ hold down attachment to slab/curb. *No holes at second floor hold down locations.*
3. Providing all shaped wood headers and ledgers.
4. Providing hold-down brackets, catalogue hardware connections, steel strapping, and fabric lifting straps as required. Hold-down brackets and lifting straps come pre-installed.
5. Providing SDS screws as required for wall panel installation.
6. Providing "installation drawings" showing anchor bolt/ hold down placement, and wall panel location/sequence.
7. Coordination with General Contractor for potential in-plant inspections with the District's inspection staff during the fabrication or installation of all wall panel assemblies. Panels are fabricated in a manner to allow for on-site inspection. Refer to Testing and Inspections sheet located in DSA approved structural drawings.

Glued-Laminated Products

1. Providing all prefabricated glu-lam and PSL beams, columns, ledgers (2S 1I), and girders {2S 1I, 2S2L) for building structure and walkway (2S1L).
2. Providing all column knife plate embeds, beam brackets, lag bolts, nuts, washers, and SDS screws required for installation of glue laminated members.
3. Pre-routing glu-lams to receive knife plate embeds and beam brackets.
4. Pre-finishing of glu-lam products using end sealers and penetrating sealers as required by the specifications.
5. Providing protective wrapping and coverings of all glue laminated members in accordance with the project specifications.
6. Coordination with General Contractor for all required in-shop inspections with the District's inspection staff during the fabrication of all glue laminated assemblies.

INCLUSIONS AND EXCLUSIONS

Structural Steel

1. Providing plate washers for all anchor bolts at wall panel mud sill. *Anchor bolts, hold down threaded rod, couplers nuts and other anchorage cast-in-place are provided by others.*
2. Providing steel brackets for glued-laminated timber column to beam connection.
3. Providing steel L-metal bracket for all header framing at Vendor provided wall panels.
4. Providing bent plate connectors where wall panel connects to glued-laminated column.
5. Providing structural tube-steel columns and beam at lobby entrance only (2S2L).
6. Providing structural tube-steel columns at exterior walkway (2S1L).
7. Providing all bolts, nuts and washers required for structural tube-steel column and beam assembly. *Concrete-embedded anchorage is provided by others.*
8. Providing all steel ledger supports required to support decking.
9. Coordination with General Contractor for all required in-shop inspections with the District's inspection staff during the fabrication of all structural steel assemblies.

Metal Stairs and Railings

1. Providing all steel stairs, including steel pan treads/landings, stringers, handrails, base angles, nosing, and steel mounting channels and hardware required for complete assembly. *Concrete-embedded anchorage is provided by others.*
2. Providing all steel stair handrails, wall mounted rails and associated hardware necessary for assembly. *Concrete-embedded anchorage is provided by others.*

Metal Deck

1. Providing all metal floor (2S1L, 2S2L) and roof decking, stair landings (2S1L), canopies (2S1L) and walkways (2S1L). Metal decking factory-finished (paint) in exposed areas.
2. Providing all gauge metal closure angles, edge screeds and metal cell closures as required for metal deck assembly.
3. Providing all galvanized column collars.
4. Providing sheet metal screws and associated decking hardware (what hardware?) required for installation of metal decking. *Powder driven fasteners provided by others.*
5. Providing flute insulation, plastic lath, neoprene plugs and air dams required for metal deck assembly.
6. Providing versa wedge hanger attachments for lighting attachment only

INCLUSIONS AND EXCLUSIONS

Shipping, included in item cost

1. Vendor to provide shipping for all Vendor provided components.

Project Management and Construction Administration Services

1. Periodic on-site project management.
2. RFI review and response related to the Vendor Kit and Vendor Building Shell Structural design scope.
3. Submittal review and response for the Vendor Building Shell foundation system.

Sales Tax

1. Sales tax of <X>% on 40% of the taxable basis per "CA Sales and Use Tax Reg. 1521.c.4.(d)".

ALTERNATES

Aluminum Windows, Entrances, Sun Shades, and Storefronts

1. Providing all exterior pre-assembled aluminum windows. *Upgrade to operable windows is optional.*
2. Providing all extruded aluminum perimeter flashing at Vendor provided aluminum windows. *Door pans and field-applied backer rod/caulking provided by others.*
3. Providing all related window hardware, if *upgrade to operable windows is exercised.*
4. Providing all required fasteners and attachment hardware for aluminum window installation

Aluminum Storefront Entry with Doors and Hardware

1. Preassembled, exterior aluminum entry doors and exterior storefront systems
2. Providing all required fasteners and attachment hardware for aluminum entry doors, and storefront installation.
3. Providing all related entry door hardware, with the exception of door cores and construction cores.
4. Providing all extruded aluminum perimeter flashing at Vendor provided aluminum entry doors, and storefront systems. *Door pans and field-applied backer rod/caulking provided by others.*

INCLUSIONS AND EXCLUSIONS

Aluminum Sunshades

1. Providing aluminum sunshades and associated hardware at Vendor provided glazing assemblies, where detailed in the contract documents.

Treated Wood Planks

1. Providing all wood plank wall and soffit panels with associated metal frame or painted-black furring strips, referred to as wall finish W-2 Accoya.

Motorized Window Shades

1. Providing all motorized window shades at classroom windows and clerestories as shown in contract documents.
2. Providing associated prefinished housing and mounting components necessary for installation.

Lighting and Controls

1. Providing all interior Lantana pendant mounted LED light fixtures with mounting hardware and remote driver units.
2. Providing digital network lighting and shade controls for VENDOR provided lighting and shades.
3. Providing wireless daylight, QS, shadow and occupancy sensors. Battery provided.

Metal Roofing

1. Providing prefabricated, insulated metal roofing panels. Panels come factory-finished in standard "Solar White".
2. Providing sheet metal gutter, fascia, downspout leaders and elbows, associated gutter/fascia hangers, straps, washers, spacers, parapet coping (1S2L, 2S2L), butyl tape, and fasteners required for a complete assembly. *Schedule 40 downspout provided by others.*
3. Providing flashing at transition from exterior wall to balcony walkways (2S1L).
4. Providing ledger flashings at Vendor provided structural wood ledgers (2S1L).
5. Providing metal end caps and fasteners over exposed wood rafter tails.

INCLUSIONS AND EXCLUSIONS

EXCLUSIONS

All materials not called out above, including but not limited to:

1. Site work
2. Receiving and offloading of Vendor Kit components
3. Installation of Vendor Kit components
4. On-site material processing and handling
5. Fees (i.e. permits, bonds, and all inspections)
6. Storage
7. All equipment to handle offload, hoist, & install of Vendor Kit components
8. Disposal of excess or extra Vendor supplied materials
9. BMS/EMS integration per district standard specifications (to be coordinated by the AOR or Design Build Lead)
10. Existing conditions
11. District standard specifications (review and/or conformance)
12. All concrete and reinforcing steel
 - a. Concrete treads attachment hardware at stairs
 - b. Lightweight concrete at steel decking
13. Masonry
14. Non-Vendor provided metals and structural steel, including but not limited to:
 - a. Anchor bolts and associated nuts
 - b. Hold down threaded rods, nuts and washers
 - c. Embedded mudsill anchorage
 - d. Nails, powder driven fasteners, wood screws
 - e. Any additional fasteners not required for Vendor Kit assembly
 - f. Structural steel for elevator systems
 - g. Cane rails
 - h. Welding of guardrail cap (cap comes loose from guardrail)
 - i. Expansion joints
 - j. Deck and roof penetrations
 - i. To be performed and reinforced by GC. This includes but is not limited to field welding and furnishing/installing of deck opening supports, steel plates and sleeves
15. Non-Vendor provided wood, plastics, and composites, including but not limited to:
 - a. Refer to scoping document for all non-Vendor, General Contractor site built interior walls
 - b. Blocking at all non-Vendor provided material, equipment and building systems
Drywall
 - c. nailers at top bottom and sides of walls and glulam beams
 - d. Wood preservative treatment applied to cut ends and holes in PT sill, to be field applied
 - e. Ripped 2x at head of demising walls, where wall meets deck
 - f. Wall infill at oversized HVAC louver rough opening
 - g. Framing at exterior electrical closet
 - h. Kickers used for wall panels install
 - i. Fireproof Wood Backing at electrical closet and other locations
 - j. Soffits and Dropped Ceilings

INCLUSIONS AND EXCLUSIONS

- k Pilaster Chase Walls
- l Routing or openings in wall panels for utilities and MEP systems
- m. Casework, Millwork or Finish Carpentry Materials
- n. Including but not limited to blocking, connections, routing in Vendor provided wall panels
- 16 Thermal and Moisture Protection
 - a SAF, weather barrier, self-adhered aluminum foil, sealants, and all waterproofing materials
 - b. Backer rod and caulking
 - i Field applied backer rod and caulking between window sash and flashing.
 - i Field applied backer rod and caulking between flashing and plaster stop
- 17. Built Up Roofing System
- 18 Any roofing system above the Vendor, structural, metal deck - *if Metal roofing and associated gutter and fascia assemblies are not exercised as alternate*
- 19. Canopy system, including structural, metal deck and metal roof, *for alt building types other than 2SIL*
- 20. Fireproofing
- 21. Roof hatch and ladder
- 22. Downspouts
- 23. Door pans
- 24. Openings
 - a Aluminum windows, and storefront, *if not exercised as alternate*
 - b. Aluminum sun shades, *if not exercised as alternate*
 - c. Rated glazing
 - d. Non-unitized glazing and flashing
 - e. Aluminum Storefront Doors and Frames, if not exercised as alternate:
 - i Exterior and interior doors, windows, frames, sidelites, glazing and hardware
 - f. Hollow Metal Doors and Frames:
 - i Exterior and interior doors, windows, frames, sidelites, glazing and hardware
 - g. Wood Doors and Frames
 - i Exterior and interior doors, windows, frames, sidelites, glazing and hardware
 - h. Door Hardware Cores and/or Cylinders (including temporary construction cores/cylinders)
 - i. Roil up doors, accordion style doors
 - i Including but not limited to all supports, blocking, attachments, guiderails, guide tracks
 - j. Access panels and associated blocking, supports, and attachment systems
- 25. Finishes
 - a All interior and exterior finishes (beyond Vendor Kit inclusions)
 - b. Gypsum board
 - c. Densdeck
 - d. Sound mats

INCLUSIONS AND EXCLUSIONS

- 19. Specialties
 - a. Signage
 - b. Fixed and moveable wall partition systems
 - i. Including but not limited to all supports, blocking, insulation, attachments, guiderails, guide tracks, and light gauge steel framing systems
- 20. Equipment
- 21. Furnishings
 - a. All interior furniture, fixtures, and other furnishings
 - b. Motorized Shades at Aluminum clerestories, storefront, all common areas and admin spaces, *if not exercised as alternate*
 - c. Blackout Shades
 - d. Manual Shades
- 22. Special Construction
 - a. Restroom pods
- 23. Conveying Equipment
 - a. Elevator System
 - i. All elevator related work including but not limited to foundations, cladding, structural wood, structural metals, architectural/misc. metals, utilities, controls, BMS, roofing, seismic joints, caulking, flashing, commissioning, temp use, & waterproofing.
- 24. Fire Suppression
- 25. Plumbing
- 26. Mechanical
- 27. Electrical (beyond standard Vendor Kit lighting systems) Panelboard and Equipment
 - a. Non-Vendor Kit light fixtures and associated control wire connections
 - b. Lantana pendant lighting fixtures, *if not exercised as alternate*
 - c. Lutron lighting management system, *if not exercised as alternate*
 - d. Low voltage cabling for Lantana light fixtures
 - e. Receptacles and wiring
 - f. Exit signs and associated power
 - g. Low voltage systems (i.e. fire alarm, a/v, tele/data, security, etc)
 - h. Associated control wire connections
 - i. Emergency lighting and EMS compatibility
- 28. Communications
- 29. Electrical security
- 30. Plumbing
- 31. Earthwork
- 32. Exterior Improvements
- 33. Utilities

In general, this proposal is being submitted with inclusions for a building kit component delivery for a proprietary Vendor system. The entire installation of Vendor Kit components rests with the Client. Any outside entities or contracts which may affect the Vendor system are excluded from this proposal and will be deferred to the Client as referenced above. Vendor is neither the prime nor the professional services of record provider in this contract so this information should be used to supplement and not replace the commitments of the Client.

INCLUSIONS AND EXCLUSIONS

QUALIFICATIONS

- 1 The Client will be required to execute a Vendor Sales Order
- 2 If proposed project contains multiple buildings, Vendor assumes buildings will be built concurrently. Non-concurrent building construction may trigger a change order to cover any Vendor incurred cost for out of sequence manufacturing, storage, and delivery of Vendor components.
- 3 Master project schedule must include Vender's procurement period as outlined in section VI.
- 4 Vender's periodic onsite quality control is based on a total of (TBD) visits assuming concurrent schedule for all buildings.
- 5 Coordination with public agencies, inspectors, districts, and/or other jurisdictions will be the responsibility of the Client. Vendor can provide documentation regarding the components support to the Client.
- 6 Vendor will aid in coordination efforts to facilitate in-plant inspection for structural steel, glulam, and wall panels.
- 7 All onsite communication, coordination, and administration with the IOR is the responsibility of the Client.
 - a Offsite inspection requests will be transmitted from Vendor to the Client for their coordination in scheduling such inspections
- 8 GC to notify and coordinate with Vendor for all on-site structural observations.
- 9 GC to protect all finished surfaces for Vendor provided material, Vendor assumes no responsibility for protection of materials once delivered to site, which includes but is not limited to; damage from on-site labor, material handling, adjacent MEPF work, concrete deck pour drips, weather protection, and adjacent finishes.
- 10 Within 48 hours of delivery of the materials, GC will inspect the materials and notify Vendor of any missing, damaged, or defective materials. If GC fails to notify Vendor of any missing, damaged, or defective material during this period, the materials shall be deemed accepted by GC.
- 11 Notwithstanding any installation guide/guidance or any construction observation that may be provided by Vendor, the parties acknowledge that Vendor will not have control over, charge of, or responsibility for, construction means, methods, schedules, or delays, or for safety precautions/programs in connection with the on-site assembly or installation of the Materials, which will be solely the Purchaser's responsibility.
- 12 GC shall expect to, and budget for, finish repair work for all pre-finished Vendor materials - whether finish damage occurs in-transit or on-site.
- 13 GC to contract with Lutron certified installer for installation of provided Lutron material {GC to contact Lutron for list of certified installers). Lutron certification fee is to be covered by the General Contractor and coordinated directly with Lutron at 1-800-523-9466.
 - a GC to coordinate all on-site commissioning of Lutron System
- 14 For all "N/C" comments on PF shop drawings and submittals, please refer to this proposal for verification of scope. Should additional clarity be needed, please transmit a formal RF for PF review and comment
- 15 If a conflict is discovered in the Component Scope Document, the Contractor shall immediately notify Vendor and request clarification. Vendor will resolve the conflict and make any corrections or interpretations necessary to fulfill the intent of the Component Scope Document. Inclusions, exclusions, and qualifications contained within this proposal shall take precedence over Component Scope Document.
- 16 Vendor design scope is not included in this proposal. Vendor design services will be contracted through a separate Vendor design contract.
- 17 Straps installed to panels are for manufacturer use for loading panels to shipping trucks. Contractor is responsible for all rigging equipment to offload, hoist, and install Vendor kit

INCLUSIONS AND EXCLUSIONS

components.

18. Ability to accommodate Vendor Kit component weights:
 - a. Structure:
 - i. Wall panel weights: 750 to 3,000 lbs max
 - ii. Glulam weight range: 50 lbs to 800 lbs
 - b. Metal deck:
 - i. Deck bundle weight: 3,500 lbs each
 - ii. Each bundle is 20 pieces of approx. 32 ft length material
 - iii. Glazing:
 - i. Palletized weight: approx. 1,500 lbs
 - iv. Roofing:
 - i. Roof bundles weight range: 1,250 lbs to 1,750 lbs
 - c. Client must review Exhibit A: Sample Vendor Sales Order contract and provide written agreement to the outlined terms, or issue comments back to Vendor within 2 weeks of issuance of this proposal, in order to facilitate timely contract execution and ensure a timely start of work identified within this proposal.

FABRICATION AND DELIVERY SCHEDULE

1. Client shall issue a written release to Vendor to authorize Vendor Kit component fabrication.
 - a. Client shall sign off on Vendor material on-site dates listed on a Vendor Procurement Schedule exhibit, accompanying the written release for component fabrication (see sample exhibit listed in section III).
 - b. Once Vendor receives written release and material on-site dates from Client, if delivery is postponed at Client's request, the Client shall be responsible for: (a) any incurred cost of storing the Materials during the period of postponement; and (b) ensuring the safety and protection of the Materials during the period of postponement
2. Testing and Inspections:
 - a. Refer to project specific DSA 103 Statement of Structural Tests & Special Inspections for DSA required structural tests and special inspection criteria.
3. Vendor Kit Component Procurement Timelines, upon executed contract between Vendor and Client
 - a. Steel, Wall Panels, and Glulam components require a two (2) month procurement period starting from DSA approval
 - b. All other Vendor Kit components require a four (4) month procurement period starting from DSA intake submission
 - c. Procurement timeline includes submittal creation and reviews, fabrication, inspections and delivery.
4. Client to input Vendor Component Procurement Timelines into project schedule. Client to issue schedule for Vendor approval.
5. Should the material delivery date extend beyond 30-calendar days from the contractual delivery date, client is subject to material price increase of no more than 10%. Materials cannot be stored prior to delivery for a period longer than 60-calendar days from original contractual delivery date.

PURCHASE, DELIVERY/TIME TERMS

FEE SCHEDULE - PANELIZED COMPONENTS			
PHASE	DESCRIPTION	COST	UOM
Phase One	Design and Engineering	15.00%	of Project
Phase Two	Fabrication	15.00%	of Project
Phase Three	Delivery	30.00%	of Project
Phase Four	Setting and Staging	30.00%	of Project
Phase Five	Acceptance	10.00%	of Project

MODULAR COMPONENTS SPECIFICATIONS

MODULAR COMPONENTS SYSTEM

PERFORMANCE AND TECHNICAL SPECIFICATIONS

PART 1• GENERAL

1.1 SUMMARY

A. Description:

- 1 This Section describes the pre-fabricated MODULAR COMPONENTS system for classroom, multi-purpose room, restroom and other school type uses regulated by the California Division of the State Architect (DSA).
- 2 Installation of the pre-fabricated MODULAR COMPONENTS system and completion of Work not provided by the MODULAR COMPONENTS supplier is by others and not included in this Section.
- 3 MODULAR COMPONENTS Supplier does not perform field construction or observation.
- 4 Name brands are indicated to establish a standard of quality. Items of equal or better quality may be substituted for the listed brand name products so long as they comply with the approved construction documents and receive written approval by the Architect of Record or District.

1.2 DEFINITIONS

- A. APPROVED - When the word approved or approval is used, it shall indicate approval for construction by DSA.
- B. ARCHITECT - Consulting architect licensed by the State of California and retained by each School District.
- C. CBC - California Building Code.
- D. COMPONENT - Element included in MODULAR COMPONENTS System.
- E. MODULAR COMPONENTS SUPPLIER - Designer and supplier of MODULAR COMPONENTS System. MODULAR COMPONENTS Supplier may or may not be the licensed professional(s) in responsible charge for the project. MODULAR COMPONENTS Supplier may or may not be the fabricator and manufacturer of the Components but shall be responsible for the successful delivery of Components to the jobsite.
- F. MODULAR COMPONENTS SYSTEM- "MODULAR COMPONENTS" and "MODULAR COMPONENTS System" are used to indicate a series of interrelated elements and pieces used to construct a building for a Project; the term does not intend or imply that a MODULAR COMPONENTS is a complete building with no other Work.
- G. CONTRACTOR - The Company responsible for installation and completion of all on-site construction Work.
- H. DISTRICT - Any State of California Public School District or Charter School.
- I. DSA- Division of the State Architect, State of California.
- J. INSPECTION - Quality control and examination conducted by the Inspector. All project Inspections, including in field and shop inspections of the prefabricated components, shall be the

MODULAR COMPONENTS SPECIFICATIONS

responsibility of the District.

- K. INSPECTOR - A building inspector approved by DSA and employed by the District or public agency to ensure that a Project is completed according to the Approved construction documents.
- L. INSTALLATION - Refers to the Work required to receive, assemble and erect the MODULAR COMPONENTS system per the Approved construction documents.
- M. PRE-FABRICATED - Pre-fabricated and pre-fabrication refers to pieces constructed or manufactured off-site by the MODULAR COMPONENTS Supplier.
- N. PROJECT - Project is used to indicate an entire DSA approved set of Construction Documents.
- O. Work refers to any and all on-site activities required to complete a Project or a portion of a Project per the Approved construction documents, performed by Contractor.

1.3 SUBMITTALS

- A. Sample Building Designs: Submit sample building floor plans, elevations and/or completed photographs indicating the general arrangement of building elements in a Project. The District may accept deviations to layouts and/or aesthetic design at their discretion.
- B. Construction Documents: MODULAR COMPONENTS Supplier shall provide, in PDF format, their standard set of construction drawings and technical specifications for the building being provided.

1.4 GENERAL DESIGN REQUIREMENTS

- A. The pre-fabricated MODULAR COMPONENTS system design shall use a common vocabulary of building components to achieve a catalog of building configuration options. Upon completion of Work, pre-fabricated MODULAR COMPONENTS system shall result in permanent (non-relocatable) construction with the following characteristics.
- B. Occupancy Type: E (classroom buildings)
 - 1. MODULAR COMPONENTS Supplier may provide buildings for Occupancy Group A and B also.
- C. Construction: Type V-B
- D. Number of Stories: System shall have one story design.
- E. Dimensions:
 - 1. Classrooms: Approximately 30' x 32' (960sqft), 30' x 40' (1200sqft) and 30' x 48' (1440sqft) gross floor area.
 - 2. Multi-Purpose Rooms: Approximately 60' x 88' (5,280sqft) and 60' x 112' (6,720sqft) gross floor area.
 - 3. Interior Ceiling Heights: Single story buildings shall have vaulted classroom ceilings, minimum 11'-11" at low point (minimum 10'-6" clear to beams). Multi-Purpose Rooms shall have flat ceilings, approximately 20' clear to bottom of beams/23' to bottom of deck.

MODULAR COMPONENTS SPECIFICATIONS

- 4 Corridors: Where interior corridors are provided, single story buildings shall have minimum clear width options of 8', 10', 12' and 20' (+/- 2"); two story buildings shall have minimum clear width of 12' (+/- 2").
- F. Fire Sprinklers: Fire sprinklers may be used as part of Contractor's Work to achieve allowable building areas and/or number of stories to comply with CBC Table 503.

1.5 STRUCTURAL PERFORMANCE CRITERIA

- A. The components shall be designed so that upon successful Installation the system meets the stated structural design criteria of this section.
- B. Regulatory Requirements:
 - 1 Occupancy Category III.
 - 2 Conform to 2013 California Building Code with DSA amendments.
- C. Structural Performance, General: The following design criteria represent minimum for the Work. Where governing building codes and regulations mandate different criteria, the more stringent criteria shall govern. Where specific conditions at the project site mandate different criteria, the more stringent criteria shall govern.
- D. Seismic Performance:
 - 1 $Sds = 1.60g$.
 - 2 Seismic Design Category E
 - 3 Nonstructural items shall be designed assuming they will be placed on the second floor of a two-story building where $h_{floor} = 12'-0"$ above grade and h_{roof} varies from 24'-0" to 27'-8", with z/h never less than 0.5.
- E. Wind Performance:
 - 1 Exterior components and cladding shall be designed assuming they will be mounted on the second story of a two-story building where maximum $h_{roof} = 27'-8"$.
 - 2 Basic Ultimate/LRFD Wind Speed: $V_u1 = 130$ mph, risk category III.
 - 3 Exposure C
 - 4 Topographic Factor: $K_t1 = 1.0$.
- F. Snow Loads:
 - 1 Ground snow load: $p_g = 30$ psf.
 - 2 Exposure Factor: $C_e = 1.1$, terrain category C, sheltered.
 - 3 Importance Factor: $I = 1.1$.

1.6 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Contractor shall be responsible for shipping, offloading, handling, staging, and storing.
 - 1 Contractor shall ensure proper equipment and labor force is in place for a timely offloading of materials.

MODULAR COMPONENTS SPECIFICATIONS

- 2 Delivery of MODULAR COMPONENTS system shall be in MODULAR COMPONENTS supplier's standard packaging design to a single District Project site in the State of California.
 - 3 Project site shall have reasonable access for a semi-trailer to approach, enter and exit the site for offloading.
- B. Contractor shall exercise proper care in the handling of all work so as not to injure the building components, and take proper precautions to protect the work from damage after it is in place.

PART 2• PRODUCTS

2.1 GENERAL

- A Basis of Design: Pre-fabricated MODULAR COMPONENTS system shall be as generally described in Section 2.2.

2.2 COMPONENTS

A WOOD WALL PANELS

1. Framing: Dimensional and engineered lumber products, with nominal 2x6 framing at 16" o.c. at exterior walls and 16" or 24" o.c. at interior walls.
2. Sheathing: 5/8" OSB or Structural Plywood panels to comply with structural design requirements.
3. Hardware: Shop installed Simpson HOU Holdowns (as specified on structural drawings) to comply with structural design requirements.
4. Labeling: Wall panels shall be individually labeled to indicate position in completed building (reference to MODULAR COMPONENTS Supplier's standard installation drawing package is preferred method).

B BEAMS AND COLUMNS

1. General: Beams and columns shall be sized to comply with structural design criteria.
2. Visually Exposed Locations: Glulam (Douglas Fir, Port Orford Cedar, Alaskan Yellow Cedar, or equivalent) beams and posts.
 - a) Appearance: Architectural appearance grade for beams and Premium appearance grade for columns, as defined by AITC 110, with all laminations of the same species.
 - b) Finish: Translucent penetrating sealer, shop applied.
 - c) Accessories: Fabricated steel connection pieces for column to foundation and beam to column intersections.
3. Concealed Locations: Douglas Fir Glulam or PSL, according to structural design requirements.
 - a) Accessories: Standard galvanized Simpson connectors or equivalent to comply with structural design requirements.

MODULAR COMPONENTS SPECIFICATIONS

C. METAL DECKING

1. General: Decking style and gauge shall be as defined on the Approved structural drawings to satisfy the structural design criteria.
2. Visually Exposed Locations: Pre-finished, structural acoustical metal decking available in a suite of aesthetically compatible options (for example, composite/concrete filled deck and bare metal roof deck options w/ a similar visible profile).
 - a) Appearance: Dovetail shape profile (with or without minor rib); perforated at acoustical applications and non-perforated at non-acoustical applications.
 - b) Finish: Exposed surfaces shall be factory painted, standard off-white color.
 - c) Acoustical Performance: Classroom ceilings to have perforated metal decking with fiberglass acoustical batts concealed in the flutes capable of providing a minimum NRC rating of 0.95.
3. Concealed Locations: Non-visual grade metal decking to comply with structural design requirements.
4. Accessories: Manufacturer's standard metal pour stops and flute closures as required for concrete filled metal decks.
 - a) Note: Concrete fill is by others and not part of MODULAR COMPONENTS Supplier's

D. MISCELLANEOUS STRUCTURAL STEEL

1. General: Miscellaneous structural steel shapes and assemblies used in conjunction with primary wood frame structure. No field welding.
2. Finish: Shop primed.

E. INSULATED METAL ROOF ASSEMBLY

1. General: Classroom roofs shall be insulated metal roof panels.
2. System Description: Nominal 40 inch wide, 4 inch thick, by full length (up to 50 feet) roof panels that arrive on site in one piece ready for Installation.
 - a) Basis of Design: InsulSpan TF Series Roof Panel by Commercial Innovations, a division of Garland Industries, or approved equal.
 - b) Insulation Material: CFC-free foamed-in-place polyisocyanurate foam, 2.5pcf density.
 - i) R-value: 32 per ASTM C518/C1363 at 40 degree F mean temperature.
 - c) Joint Configuration: Overlapping with exposed fasteners and saddle clips.
 - d) Metal Facings: 26 gauge galvanized interior and 0.032 inch aluminum exterior.
 - e) Finish: Exposed metal shall be Manufacturer's standard high-performance organic coating, Kynar or equivalent.
 - i) Color: Solar White to achieve SRI of 78 or better.
3. Accessories: Fascias and gutters with downspouts to approx. 8 feet above finish floor for field connection.

MODULAR COMPONENTS SPECIFICATIONS

F. ALUMINUM & GLASS WINDOW SYSTEM

1. General: Exterior aluminum windows arrive in "unitized" factory assembled, pre-glazed modules.
2. System Description: 2-1/4" x 6" Thermally Broken; captured offset glazed, screw spline, shear block or punched opening fabrication, 2 sided structural silicone glazed for 1" glass.
 - a) Basis of Design Model: TC670 Series by Arcadia Inc., Vernon CA or approved equal.
 - b) Aluminum Finish: Manufacturer's standard high-performance organic coating, PPG Duranar or equivalent.
 - c) Color: Base bid reflects Duranar 'Sunstorm Arcadia Silver' color.
 - d) Exterior Glazing: 1" nominal thick insulating Low-E clear glass.
 - i) Manufacturer: PPG SolarBan 70XL or approved equal.
 - ii) Safety Glass: Where safety glass is indicated or required, provide products complying with ANSI Z97.1 and testing requirements of 16 CFR Part 1201 for category II materials. Label glass as required by Code.
 - e) Energy Performance: System shall be certified according to NFRC as follows for a 4 x 8 foot window:
 - i) U-Value: not more than 0.45 Btu/sqft x h x deg F according to NFRC 100.
 - ii) SHGC: not greater than 0.27 as determined according to NFRC 200.
 - iii) VT: not less than 0.56.
 - f) Entrances: Arcadia, Inc., Vernon, CA or approved equal.
 - i) Medium stile 362HD, heavy duty: 1-3/4" thick with 3-5/8" wide top rail, 3-1/2" wide vertical stiles, 10" bottom rail.
 - a) Wide stile doors acceptable if required by door hardware.
 - ii) Hardware: Hardware groups TBD.
 - g) Accessories: Aluminum anchors, window flashing kits.

G. EXTERIOR SUN CONTROL DEVICES (SUNSHADES):

1. General: Fixed, horizontal extruded-aluminum exterior sunshades that integrate with Aluminum and Glass Window System.
 - a) Basis of Design: Construction Specialties, Inc.; Model 100-3
 - b) Depth: Nominal 3 feet deep as measured from face of glass.
 - c) Outriggers: Flat aluminum plate, 6 inches high by 1/4 inch thick or as required to meet Structural Design Criteria.
 - d) Blades: 6" long-span aluminum airfoils.
 - e) Brackets: Aluminum plate, sized to fit face of mullion.
 - f) Finish: High-performance organic finish, PPG Duranar or equivalent.
 - g) Color: Match aluminum window system.

MODULAR COMPONENTS SPECIFICATIONS

- 2 Sunshades ship loose for attachment to frames in the field.
- H INTEGRATED LIGHTING & SHADE CONTROL SYSTEM FOR CLASSROOMS
1. General: Classroom spaces shall be illuminated by linear LED pendant fixtures designed for classroom environments and that integrate in to an automated 'daylight harvesting' control system that coordinates with motorized window shade.
 - a} Non-classroom space fixtures are by Contractor and not included with MODULAR COMPONENTS System.
 2. Basis of Design: Vender Lantana light fixtures with Lutron motorized roller shades and Lutron Quantum Ecosystem controls, or approved equal.
 - a) Light Fixtures: Base Bid reflects 11 Lantana fixtures at Small (S) classrooms and 17 Lantana fixtures at Large (L) classrooms.
 - i) Dimensions: Nominal 6 foot length.
 - ii) Classroom light fixtures shall be individually addressable with dimming capacity (10%-100%) for integration into a daylight control system.
 - iii} Non-classroom space fixtures are by Contractor and not included with MODULAR COMPONENTS System.
 - b) Interior Motorized Shades: Base Bid reflects shades at Vender standard classroom windows.
 - i) Fabric: Sheer shade cloth, manufacturer standard color and weave. ii} Mounting: Inside
 - iii) Operation: Motorized operation compatible with daylight control system.
 - iv) Fascias: aluminum powder coated fascia, manufacturer standard color.
 - v) Non-classroom space window shades are by Contractor and not included with Component Building System.
 - c) Daylight Control System: Automated daylight harvesting system capable of dimming light fixtures and raising/lowering motorized shades in response to occupancy sensor and photo sensor inputs.
 3. Items Requiring On-site Construction (not mentioned elsewhere):
 - a) Signage: Required ADA signage provided by others.
 - b) Fire Alarm Devices: To be provided and installed by others in field.
 - c) Smoke Detectors: To be provided and installed by others in field.
 - d) Fire Sprinklers: To be provided and installed by others in field.
- I INTERIOR STAIRS
1. General: At two-story component buildings with a central corridor, second floor shall be accessed by pre-fabricated stair assemblies integral to the design of the MODULAR COMPONENTS system.

MODULAR COMPONENTS SPECIFICATIONS

Interior Stairs: Manufacturer standard steel channel stringer concrete filled metal pan stairs complying with requirements of CBC.

- 2 Guardrails & Handrails: Manufacturer standard galvanized metal guardrails and handrails integrated with building structure and complying with requirements of CBC. Guardrail and handrail design shall be pre-fabricated in such a way that no site welding is required; connections to structure shall all be via mechanical fasteners.

J. EXTERIOR STAIRS AND WALKWAYS

1. General: At two-story component buildings without a central corridor, second floor classrooms shall be accessed by exterior balconies and pre-fabricated stair assemblies integral to the design of the MODULAR COMPONENTS system.
2. Exterior Walkways: Shall be constructed of exposed wood posts and beams with concrete filled metal deck walkway. Refer to sections above for specifications.
 - a) Alternate: Galvanized and prime painted steel posts and wood beams with concrete filled metal deck.
3. Exterior Stairs: Manufacturer standard steel channel stringer concrete filled metal pan stairs complying with requirements of CBC.
4. Guardrails & Handrails: Manufacturer standard galvanized metal guardrails and handrails integrated with wood post and beam structure and complying with requirements of CBC. Guardrail and handrail design shall be pre-fabricated in such a way that no site welding is required; connections to structure shall all be via mechanical fasteners.

PART 3- EXECUTION

3.1 GENERAL

- A Delivery, Handling & Sequencing: To be coordinated by General Contractor.
- B MODULAR COMPONENTS Supplier's Components will be installed by General Contractor and/or its Subcontractor(s) and are not part of the MODULAR COMPONENTS Supplier's Scope of Work.

3.2 PREPARATION

- A General Contractor shall examine areas and conditions under which Pre-fabricated Building System Components are to be installed and immediately identify conditions detrimental to proper and/or timely completion. Do not proceed until unsatisfactory conditions have been addressed and/or corrected.
 - 1 General Contractor shall provide verification in writing that foundations are properly installed, to correct dimensions and within acceptable tolerances.
- B General Contractor shall verify in writing that all services and/or rough-in work required to be in place before Pre-fabricated Building System Component installation has been completed.

MODULAR COMPONENTS SPECIFICATIONS

3.3 INSTALLATION

- A Installation:
 - 1 MODULAR COMPONENTS Supplier does not install Components.
 - 2 General Contractor responsible for setting, adjusting, anchoring, and bracing (temporary or otherwise) the Pre-fabricated Building System Components per the approved construction documents.
- B Tolerances: General Contractor responsible for adjusting, leveling, plumbing and truing work as required for proper installation within acceptable tolerances.
- C Completion: General Contractor responsible for work required to complete installation of Pre-fabricated Building System Components, including but not limited to final structural and MEP connections.

3.4 FIELD QUALITY CONTROL

- A Testing and Inspections: All required testing and inspection in the field to be coordinated by General Contractor.

3.5 CLEANING AND PROTECTION

- A Protection: Protect installed Components from damage during construction.

Cleaning: Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to District's acceptance.

[END OF SECTION]

MODULAR COMPONENTS SPECIFICATIONS

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MODULAR COMPONENTS SPECIFICATIONS

13 34 07 - PREFABRICATED MODULAR STRUCTURES - NEW GYMNASIUM

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General Conditions and Division-1 apply to work of this section.

1.2 SUMMARY

- A. This section describes prefabricated, clear span, modular structures. The prefabricated modular structure shall be erected at the designated site within the State of California, complete and ready for use. All costs for transportation and installation of the site are to be included in the Bid price.
- B. Extent of Prefabricated Modular Structure is as shown on drawings and specified herein.
- C. Work included as part of Modular Contractor's work includes all work described within this section.
- D. Related Sections: The following sections are noted as containing requirements that relate to this Section, but may not be limited to this listing:
 - 1. Division 1 through Division 16 and all other Sections listed in the Table of Contents.

1.3 SUBMITTALS

- A. General: Submit the following according to conditions of contract and Division-1 Specifications Sections.
 - 1. Shop Drawings: Submit shop drawings for all Prefabricated Modular Structure complete with dimensions and other information needed to verify conformance with design criteria and specifications.

1.4 QUALITY ASSURANCE

- A. Applicable Documents:
 - 1. The following documents form a part of this specification to the extent they are applicable.
 - 2. California Code of Regulations (C.C.R.).
 - i. Title 5 Education Code
 - ii. Title 19 Public Safety
 - iii. Title 20 Public Utilities
 - iv. Title 21 Public Works
 - vi. Title 24 Building Code
 - 3. National Fire Protection Association NFPA 90A.
 - 4. National Warm Air Heating and Air Conditioning Association.
 - 5. National Electrical Code.
 - 6. Uniform Building Code.
 - 7. Uniform Mechanical Code.

MODULAR COMPONENTS SPECIFICATIONS

8. ASTM C635 – Metal Suspension Systems for Acoustical Tile And Lay-In Panel Ceilings.

1.5 BIDDER QUALIFICATIONS:

- A. The bidder must have a B license to perform the work of this contract.
- B. The building manufacturer shall be responsible for design, engineering, submittal to DSA and consequent approval by DSA. The building manufacturer shall submit a complete design to DSA within 2 weeks after receiving a Notice to Proceed.
- C. The Contractor shall have contracted for and completed construction of a minimum of FIVE (5) California K-12 public school district construction projects, each with a Contract value of at least \$3,000,000 within the past THREE (3) years
- D. The plans submitted must show capability of manufacturer to produce a modular building meeting all conditions of this Section. Submission of a set of plans, which are not capable of being readily modified to meet the above-cited requirements, shall be cause for rejection of the bid.
- E. The plans submitted need not be identical in all respects to the technical provisions of these specifications, but must represent the structural design to be used and the Contractor who will be constructing the buildings. The Contractor cited must have the legal rights to construct the representative design. Under no conditions will these submitted plans be considered to be design drawings called for elsewhere in this section, nor will the plan submission be considered for the purpose of any substitution of the total requirements for the bid documents.
- F. Bidders shall give evidence of at least ten (10) consecutive years experience in the construction of modular school buildings in California. Such evidence will be submitted with bid and is a condition of award.

1.6 BUILDING DESIGN REQUIREMENTS:

A. Building Type:

1. Extent of work is shown on drawings.
2. Modular building shall consist of portions of new prefabricated modules, including roof, walls, windows, electrical, plumbing, and mechanical services. Each module shall be slab-on-grade construction and be engineered by the Contractor as one of the following:
 - i. A light gauge, cold-rolled galvanized steel framing system with structural braces as required or shear wall construction if best for this building type.
 - ii. Roof frame to be light gage metal truss or appropriate for the spans as shown on the drawings.
 - iii. Dimensions as shown on plans may deviate slightly in order to accommodate an approved structural system.
3. Components of the "Hybrid or Modular" layout must conform to architectural design appearance shown and requirements specified hereinafter.
4. The building contractor shall provide drawings and calculations acceptable to the Architect, meeting the provisions of the California Code of Regulations. Building Contractor shall bear all costs for production of drawings and associated structural calculations. Building Contractor shall make all revisions and corrections to those documents required by the Division of the State Architect, and shall resubmit as required to obtain approvals.
5. D.S.A., Department of General Services, State of California. Owner will pay filing fee. Successful bidder shall make all changes or corrections required by D.S.A and will deliver to Owner's Architect all original reproducible full size drawings as required for approved drawings and calculations. Original drawings cited here (as submitted by

MODULAR COMPONENTS SPECIFICATIONS

Contractor) shall be the original drawings on bond paper, bearing the original D.S.A. stamp of identification. Modular drawings and specifications shall be signed by a Licensed Architect as required by the DSA. Bidder's representative and Architect shall accompany Architect to D.S.A. appointments.

6. The Architect's decision about the product aesthetics shall be binding on the Contractor. Basic design loads, as well as auxiliary and collateral loads, are as follows:

- i. Exterior walls shall be designed to withstand wind loads perpendicular to wall plane equivalent to "exposure C, 75 mph wind". This requirement applies to all exterior walls of building section even though present configuration of building may be such that some of these walls are not exposed to wind. All buildings are required to meet all current requirements of Title 24, Parts 1 & 2 and D.S.A. Interpretations of Regulations.
- ii. Roofs: Design live load of 20 psf (reducible per area). All roofs shall be designed as diaphragms as required for resisting applied horizontal loads. Roof shall be sloped to drain with pitches as shown on the drawings.
- iii. Design each member to withstand stresses resulting from combinations of loads that produce maximum percentage of actual to allowable stress in that member.

B. Fabrication Criteria:

1. Provide Modular Buildings as produced by a Contractor who is regularly engaged in fabrication and erection of Modular Structures of type and quality indicated.
2. Design prefabricated components and necessary field connections required for erection to permit easy assembly.

C. Quality Assurance:

1. For structural steel members, comply with CBC, Chapter 22, Division IX.
2. For light gage steel members, comply with CBC, Chapter 22, Division VI.

D. Governing Codes:

1. All work and materials shall comply with the rules and regulations of the Division of the State Architect, Title 24, Parts 1 & 2, California Code of Regulations. The regulations of the State Fire Marshall, the California Building Code, the California Mechanical Code, the California Plumbing Code, the California Electrical Code, and any other applicable State Laws and regulations.

E. Energy Requirements:

1. Manufacturer shall be responsible for providing and submitting complete energy compliance documentation and calculations as required by California State Building Code as established by the Energy Efficiency Standards for Buildings as prescribed by the California Energy Commission.

F. Foundations and Second Floor:

- G. The building shall be concrete slab foundation as required at the ground level. Minimum footings as required for the large scale building such as the Gymnasium shown on the drawings and as outlined in the District provided Geotechnical Report. Foundations shall be designed to meet T-24, Part 1, Part 1, & D.S.A. requirements and additional loading requirements are based on soil bearing value of 1000 psf min. or as indicated on the Geotechnical Report provided for this project.

H. Submittal:

MODULAR COMPONENTS SPECIFICATIONS

1. Contractor's building drawings, standard details, and specifications for building assemblies manufactured hereunder shall be submitted to the Architect for review and his submission to governing authorities in compliance with governing codes, rules and regulations, and stamped approval obtained thereon as prescribed by Codes. Modular building must meet State of California, Department of General Services, Division of the State Architect construction requirements.
 2. Design and structural calculations shall be prepared by a structural engineer registered by the State of California, or as otherwise required by governing State Authorities and submitted to the Architect for review and submission to the governing authorities for approval.
 3. Additional drawings and instructions deemed necessary to carry out the work included in Contract shall be supplied to, or by, the Contractor or so prepared as to be consistent with the Contract Documents.
- I. Product Requirements: (Refer to other Division Section for products not included in this Section 13160 – Divisions shown elsewhere are District Standard and take precedence over products listed in this Division)

Steel:	(Structural Shapes) ASTM A36
Sheet Steel:	ASTM A-570 (Grade 33 or 40) See Plans.
Tubes:	ASTM A-500 (Grade B)
Bolts:	ASTM A-307 or A-325

1. For structural steel members, comply with CBC, Chapter 22, Division IX.
2. For light gauge steel members, comply with CBC, Chapter 22, Division VI.
3. Steel frame building shall meet with the design requirements of the Invitation for Bid and stud spacing. Etc., listed below.

4. Roof:

i. Plywood Sheathing:

1. 1/2" APA rated OSB sheathing.

5. Wall Framing:

i. Studs:	Light gauge galvanized steel. No wood allowed.
ii. Sill (Sole Plate):	Light gauge galvanized steel. No wood allowed.
iii. Top Plates:	Light gauge galvanized steel. No wood allowed.
iv. Headers:	Galvanized steel box beams.
v.	Door & Window Openings: Light gauge galvanized steel. No wood allowed.
vi.	Blocking: Light gauge galvanized steel. No wood allowed.
vii.	Fire Blocking: Fire blocking shall be provided as required by Section 2708 California Building Code. Provide blocking at ceiling.
viii.	Structural Members: All structural members shall be light gauge galvanized steel with truss roof support

6. Siding:

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- i. All Plywood backing shall be APA or comparable rated exterior type. Each panel shall be identified with the grade mark of the grading association and shall meet the requirements of Product Standards PS1-83. Plywood shall be ½" (minimum) thick.
- 7. Exterior siding: Kingspan metal insulated panels
- 8. Interior Wood Trim:
 - i. Interior wood trim shall be painted MDF or pine.
- 9. Roofing: Roof shall have a pitch as shown on the drawings.
 - i. The roofing shall be equal to the following Class A roofing system:
 - 1. Building manufacturer's standard pre-finished, interlocking metal roof panels, standing seam or ribbed type, 24 gauge minimum galvanized steel or new Built-up roofing with a 30 year Warrantee, Garland or equal.
 - 2. Design and installation of the deck and/or roof substrate shall result in the roof draining freely. Areas where water ponds for more than 24 hours are unacceptable and shall be corrected by the manufacturer.
 - 3. Provide 30# Builder's felt under metal roof panels.
 - 4. Finish color shall be from manufacturer's full range, to be selected by the Architect. Paint to be Kynar type paint.
 - ii. Roof Overhang:

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1. All overhangs shall present a pleasing and finished appearance.
 2. Exposed CDX sheathing will not be acceptable.
 3. Soffit to be vented T&G metal soffit liner.
 4. Soffit shall be neatly and closely fitted with 1/8" maximum spacing at any edge.
- iii. All roofing shall be guaranteed watertight (labor and materials) for a period of 2 years following substantial completion, and shall be Class A fire retardant.

10. Insulation:

- i. Wall insulation shall have a rating of R-19. Roof insulation shall have a rating of R-38. Minimum flamespread classification of 25 or less and a smoke developed rating of 50 or less. Provide more insulation where required by energy calculations.

11. Sheet Metal Accessories:

- i. General: Unless otherwise indicated, provide 24 ga. galvanized Redi-Cote or approved equal. No aluminum will be allowed.
- ii. Gutters: Formed in sections not less than 10'-0" in length, complete with end pieces, outlet tubes, and special pieces that may be required. Join sections with riveted and soldered joints. Unless otherwise indicated, provide expansion-type slip joint at center of runs. Furnish gutter supports spaced at 36" o.c., constructed of same metal as gutters. Provide standard bronze, copper, or aluminum wire ball strainers at each outlet. Gutters shall be easily cleaned.
- iii. Downspouts: Shall be 4" galvanized pipe typical with cleanouts at the base of each RWL. Paint all RWL's typ.

12. Windows:

- i. Provide Trifab 451 manufactured by Kawneer or as shown on the drawings. All windows shall be dual-glazed. Provide standard screens at all operable windows.
- ii. Interior window opening shall be wood stopped and cased.
 1. Exterior light – 1/4" AS-1 glass of gray lite 14, glare reducing type with a light transmission factor of 14% maximum.
 2. Interior light – 1/8" minimum clear, tempered as required.
- iii. Sealer - Butyl primary seal and polysulfide or silicone secondary seal.
- iv. Certification - All glazing to be certified in accordance with ASTM E-773 and E-774.
- v. Header height shall be as shown on drawings. All operable sash shall have aluminum screens.
- vi. All windows shall meet the AAMA GS101-88 Voluntary Spec. for aluminum prime windows and sliding glass (ANSI), commercial grade, medium exposure.

13. Doors and Frames:

- i. Metal Doors Construct per ANSI/SDI-100, Grade II, as minimum requirement; flush doors, 1-3/4" thick, with 18 gauge steel face sheets and sound deadening

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material on interior to effectively reduce metallic ring or staved core wood. Factory prepare and reinforce for indicated finish hardware, including reinforcement on both faces for closers. Metal doors shall be provided at all exterior conditions. Wood doors shall be at all interior conditions. All doors shall have full length piano hinges.

1. Door Treatment: Chemically treat doors for paint adhesion, and apply one complete shop coat of metal primer followed by finished paint color.
2. Pressed Metal Frames: Welded at exterior, welded or punch down at interior per ANSI/SDI-100 as minimum requirement; manufacturer's standard 16 gauge steel, depth to suit wall thickness. Provide 3 anchors, minimum per jamb and adjustable floor anchor at bottom of each jamb. Prepare and reinforce for required hardware, including reinforcement for closers on all frames. Sound deaden concealed faces with 1/8" thick undercoating. Chemically treat frames for paint adhesion and apply one complete shop coat of metal primer.
3. Weather-stripping: All exterior doors shall be weather-stripped with PEMKO 2290 at door jambs and head.
4. Door Reinforcement: Exterior doors shall be equipped with a steel plate 12 gauge x 2-1/2" x 4", with exposed corners rounded, welded to door face and ground smooth, installed at all strikes to prevent "picking" of lock by inserting a tool between door and frame.
- ii. Wood Doors: Interior doors shall be solid core wood with plastic laminate exterior finish. Provide full length piano hinges.
- iii. Door Hardware:
 1. Refer to Section 8.

J. Flooring: Extent as shown on drawings.

1. Refer to Section 9.

K. Painting: Paint and stains

1. Exterior stucco:
 - i. Primer: 3210-1200 Ultra-hide aquacrylic gripper primer-sealer or approved equal
 - ii. Finish: 2200-xx Dulux professional ext 100% acrylic flat or approved equal.
2. Exterior frames:
 - i. Primer: Zinsser cover stain or approved equal
 - ii. Finish: 2406-xx Dulux professional ext 100% acrylic semi-gloss or approved equal
3. Exterior doors:
 - i. Primer: Zinsser cover stain or approved equal
 - ii. Finish: 2402-xx Dulux professional ext 100% acrylic satin or approved equal
 - iii. Finish: 2406-xx Dulux professional ext 100% acrylic semi-gloss or approved equal
4. Exterior soffit:

MODULAR COMPONENTS SPECIFICATIONS

- i. Primer: 3210-1200 Ultra-hide aquacrylic gripper primer-sealer or approved equal
 - ii. Finish: 2200-xx Dulux professional ext 100% acrylic flat or approved equal
- 5. Interior trim:
 - i. Primer: Zinsser cover stain or approved equal
 - ii. Finish: 1406-xx Dulux professional acrylic semi-gloss or approved equal
- 6. Interior doors:
 - i. Primer: High solids sanding sealer or approved equal
 - ii. Finish: High solids rubbed effect 25 degree sheen or approved equal or High solids semi-gloss 55 degree sheen or approved equal

Note: Unless specified otherwise, paint all exposed conduits, sheet metal accessories, mechanical units, and electrical boxes on the exterior of the building.

L. Wallcovering:

- i. Interior Walls: All interior walls shall be vinyl covered tackboard applied in one continuous length from floor to ceiling.
 - ii. Tackboard backing shall be ½" sheetrock or 3/8" plywood.
 - iii. The vinyl coating shall weigh a minimum of 8 oz. Per square yard.
 - iv. The vinyl wall covering shall have a Class I flame spread rating and the fabricated panel shall have a Class II rating.
 - v. The panel shall be approved for use by the Office of the California State Fire Marshal.
 - vi. Care shall be taken in mounting the tackboard so that the texture of all panels will have the same orientation and color match.
 - vii. Manufacturer: Chatfield Clarke or approved equal.
- 2. Gypsum Board: Complying with ASTM C 36/C 36M or ASTM C 1396/C 1396M as applicable to type of gypsum board indicated
 - i. 5/8" Type X moisture and mold resistant type
 - ii. 1/2" Type X Regular Type
- 3. Fiberglass reinforced Plastic: 4'-0" panels, .090 nominal width
 - i. Color to be selected by Architect from manufacturer's full range of colors.

MODULAR COMPONENTS SPECIFICATIONS

- ii. Manufacturer: Marlite, or approved equal

M. Ceiling System:

1. Grid: 1-½" x 1" Steel suspended tee-bar grid system, heavy duty white. (USG – DX26 main runners with 422 cross-runners. See manufacturers detail for runner splice typ.).
2. Tile: 24" x 48" by USG 2310, or approved equal. NRC range .50 - .60. Flamespread 0-25. STC range 35-39. Maximum smoke density rating of 450.
3. Suspended System and Grid shall be subject to D.S.A. approval, and shall comply with applicable portions of Title 24, California Code of Regulations, and the California Building Code.

N. Fire Extinguishers: (Provide one at each Classroom)

1. Mount at +48" A.F.F.
2. Manufacturer: Badger, Fire Extinguisher 5# ABC 3A40BC
3. Badger Mounting brackets, MB5A

O. Prefinished Cabinets:

Refer to Section 12.

P. Visual Display Boards

1. Liquid Markerboards
 - i. Facing Sheet: 24 ga. porcelain enamel steel for liquid markerboards.
 1. Exposed face to be three coat process of manufacturer's primer and ground coat
 2. Concealed face to be two coat process of manufacturer's primer and ground coat
 3. Fuse cover and ground coats to steel at the manufacturer's standard firing temperatures, but not less than 1200 degrees Fahrenheit.
 4. Core: ½" (min.) particleboard complying with ANSI A 208.1, Grade 1-M-1, with manufacturer's standard 0.005 inch thick aluminum foil backing.
 5. Exposed face color: As selected from manufacturer's full range of light-colored special writing surface with gloss finish intended for use with erasable felt-tipped markers.
 - ii. Magnetic marker trough
 1. Provide (2) 24-inch long by 2 ¾" deep magnetic marker troughs per room.

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Q. Plumbing/Mechanical:

1. Air Conditioning and Heating Unit (Typical Classroom):

- i. Location: As required.
- ii. Type: As shown on drawings.
- iii. Manufacturer: Bard or Approved equal.
- iv. Model: As required to meet performance criteria. Supply air to be ducted above ceiling to minimum three ceiling diffusers per classroom. (as shown on drawings).
- v. Air Conditioning Units to provide heating and cooling to each classroom space in accordance with the requirements of Title 24 for non-residential building and equipment design. Each bidder shall furnish complete specification details as in manufacturer's model number, and capacity to the items, which are furnished.
- vi. Provide Programmable thermostats for heating and cooling and day and night operation. Thermostat to be compatible with mechanical unit.

2. Packaged Terminal Heat Pump (IT Room)

- i. General: Self-contained unit. Factory assembled and tested. Refer to Paragraph 2.6A for general requirements. Carrier, Lennox or approved equal.
- ii. Cabinet: 18-gage chassis and wall sleeve with corrosion resistant finish. Cabinet shall be High Impact Polystyrene. Color shall be selected by Architect. Provide polycarbonate adjustable louvers.
- iii. Refrigeration: Compressor shall be fully hermetic, rotary-type, internally isolated within a steel shell and externally isolated on combination spring and rubber isolators. Tubing connections to compressor shall be looped to further isolate vibration. Expansion valve. Coils shall be seamless copper tubing mechanically expanded into aluminum plate fins. Tested at 600 psi.
- iv. Condensate Removal: During cooling operation, condensate shall be re-evaporated.
- v. Motors: Separate motors for the evaporator and condenser fans. Permanent split capacitor.
- vi. Controls: Remote wall mounted thermostat. Adjustable outside air damper. Operational mode switch behind hinged panel to provide the following functions: low fan, high fan, High and Low Cool.

3. Exhaust Fan (Restrooms)

- i. General: Provide exhaust fans and louvers at restrooms per Code requirements.

4. Installation of HVAC Equipment:

- i. Complete all wiring to load center.
- ii. Install units and thermostats complete with all accessories, all required exhausts and registers as per manufacturer's written instruction.
- iii. Disconnect switch shall be located within the unit. Ductwork to be Class 1 insulated duct, MHP 25 R-8
- iv. Condensate line shall be tied into storm drain system as indicated on Civil Drawings.
- v. The completed job shall be demonstrated by the Heating and Ventilating Contractor to the Owner's maintenance representative so as to function in accordance with the manufacturer's design, and to the complete satisfaction of the Owner.

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- vi. The Contractor shall replenish all refrigerant and oil lost for a period of one (1) year without charge to the Owner.
- 5. Electric Water Heater
 - i. General: Provide Electrical wall-mounted water heater
 - ii. Location: As shown on drawings
 - iii. Manufacturer: A.O. Smith, PLJC-6 2500 Watt element, 120 V, 10 ½" round, 15 ½" tall, 85 lbs., or approved equal.
 - iv. Model: As required to meet performance criteria.
 - v. Mounting: As detailed by prefabricated modular structure manufacturer (Increment 2 of this application).

R. Electrical:

- 1. Furnish and install all Electrical conduit, outlets, wire, and switches, panelboard, fixtures, lamps, services and appurtenances, including wiring and Electrical connections to heating and ventilating equipment.
- 2. Panelboards: Panelboards in the building shall be plug-in "NPAB" circuit breaker type flush mount with hinged door and lock, sized with circuit breakers as required by C.E.C. to serve lighting, receptacle, A/C and other load circuits and shall include automatic main circuit breaker. Panels shall be furnished complete with service extension to weatherproof pull/splice junction box where shown on plan with a 10' coiled, taped, and tagged pigtail.
- 3. Conductors: Shall all be insulated copper. For #12 and #10 use solid copper. For #8 and larger, use stranded copper. All wires to be type THHN.
- 4. Conduit: Shall be PVC or armored MC cable for branch circuits where permitted by code in lieu of rigid raceway.
- 5. Interior Lighting: Fixtures - recessed lay-in type fluorescent fixtures, dieformed of 22 gauge steel, minimum of 4" deep housing and finished with baked-on 80% reflective white enamel. Fixtures shall be equipped with rapid-start high factor, Class "P" ballasts and four (4) F32 lamps and acrylic diffuser panel mounted within hinged and latchable door, as selected by Architect. Lighting System shall be designed for 75' candles maintained at desk level even with two-level switching.
- 6. Toggle Switches/Receptacles: Shall be 20/15 amp, Hubbell #1120/#5262 series specification quality or equal. Cover plates shall be plastic (Ivory) Sierra or equal.
- 7. Outside Lights: Shall match existing on campus.
- 8. Fire Alarm, Clock, T.V., Cable, and Intercom: Raceways, back-boxes, junction boxes and other provisions shall be as shown on electrical drawings. The State Fire Marshal shall approve Fire Alarm System prior to installation.
- 9. Electrical Outlets: Shall be as shown on the Electrical and/or Architectural drawings.
- 10. Modular company will install all power conduit and wiring to the electrical outlets in all rooms and to the outside GFI boxes, and will include boxes and conduits for all of the low voltage including the Fire alarm, clocks, speakers, intercom, phone, and data, but, will not include low voltage wiring for Fire Alarm, clocks, speakers, intercom, telephone, and data. Wiring will be installed by the site contractor under a different Contractor, contracted with the FMSD.

2.1 GENERAL

- A. Manufacturers/Products/Substitutions: Manufacturers and products listed are intended to establish a level of quality, size, material type and finish. Substitutions will be considered only in strict conformance with procedures and provisions of the General Requirements of these specifications.
- B. Single Product Responsibility: Provide products of the same manufacturer for each type of product incorporated into the work.

MODULAR COMPONENTS SPECIFICATIONS

PART 3 – EXECUTION

3.1 INSTALLATION AT SITE

- A. Site Construction: Once delivery of modules on site is made, erection shall commence immediately and be pursued in a timely manner until complete. All modules called for at that site shall be scheduled for delivery and erection in one continuous time frame,
- B. Construction Progress: The Contractor shall furnish materials, articles and equipment in ample quantities and at such times as to assure uninterrupted progress of the work. Failure to provide adequate working force, or material of proper quality, or failure in any other respect to prosecute the work with diligence and force specified herein are grounds for declaring a default on the contract.
- C. Site Security: Security of the buildings against vandalism is the sole responsibility of the contractor working at the site with the anticipated work being performed at the time vandalism occurs.

3.2 CLEAN UP

- A. The adjacent site and the structures shall be clean and ready for occupancy prior to acceptance by the Owners.

3.3 UTILITY HOOK-UP

- A. Utility Connections: All utility connections shall be per the drawings to accommodate hook-up at the site. Utilities connections should be by the Site Work Contractor.
- B. Guarantee: Contractor hereby unconditionally guarantees that work will be done in accordance with requirements of contract, and further guarantees the work of the contract to be and remain free of defects in workmanship and materials for a period of one year from date of acceptance by the State, unless a longer guarantee period is specifically called for. Contractor hereby agrees to repair or replace any and all work, together with any other adjacent work which may have been damaged or displaced in so doing, that may prove to be not in accordance with requirements or contract or that may be defective in its workmanship or material within guarantee period specified, without any expense whatsoever to School District, ordinary wear and tear and unusual abuse or neglect excepted. Contract bonds are in full force and effect during guarantee period.

3.4 TEMPORARY FACILITIES

- A. A. Contractor shall make arrangements for corporation yard, parking and toilet facilities as may be required for each of the sites. Compliance with such requirements and restrictions for their use may be prescribed by authorities having jurisdiction
- B. Field office facilities are not required.

[END OF SECTION]

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THE FOLLOWING IS A GUIDELINE AND SPEC

TYPE OF ROOF:	EPDM (ETHYLENE PROPYLENE DIENE TERPOLYMER)
PRODUCT:	QUALIROOF 601 (NOA # 15-0611.09)
SIZE OF ROOF:	OPEN
NUMBER IF PAILS NEEDED:	DEPENDING ON SQUARE FOOTAGE

1. CLEAN EXISTING NEW EPDM ROOF WITH A 25/1 MIXTURE OF SIMPLE GRREN AND WATER.
2. ALLOW ROOF TO COMPLETELY DRY
3. GRID ROOF AT 17 X 17.
4. PLACE 5-GALLON PAIL IN EACH GRID.
5. TAKE PHOTO OF LIDS LOT # OF THE GREY 601.
6. OPEN PRODUCT AND MIX WITH PADDLE FOR 1-2 MINUTES UNTIL ALL SOLVENT HAS DISAPPEARED.
7. ROLL PRODUCT WITH MED. NAP ROLLER EITHER EAST/WEST OR NORTH/SOUTH FOR FIRST COAT. (DO THE OPPOSITE ON THE SECOND COAT FOR BEST COVERAGE)
8. IF ROOF IS SPRAYED PLEASE USE A GRACO 5900 OR BIGGER TO ALLOW PROPER DISTRIBUTION OF PRODUCT PER COAT.
9. ALLOW 3 HOURS TO DRY BEFORE APPLYING TOP WHITE COAT.
10. RE-GRID ROOF.
11. PHOTOGRAPH LIDS LOT # OF WHITE 601.
12. PADDLE 1-2 MINTUES UNTIL SOLVENT HAS DISAPPEARED
13. ROLL SECOND COAT OF 601 THE OPPOSITE DIRECTION OF THE FIRST COAT.

**** PLEASE NOTE THAT YOU SHOULD HAVE PAINT BRUSHES AS WELL AS SMALL ROLLERS FOR THE DRIP EDGE FOR BETTER COVERAGE. PRODUCT WILL RUN OVER TO THE FACE OF THE DRIP EDGE SO YOU MAY WANT TO COAT ALL OF THE DRIP EDGE TO MAKE THE PROJECT LOOK EVEN AND AESTHETICALLY PLEASING.**

*****IF THE ROOF PITCH IS GREATER THAN 3/12 ROOF APPLY PRODUCT AT 10 MILS EACH COAT TO PREVENT PRODUCT FROM COLLECTING AT EAVE OF THE ROOF.**

******THERE IS NO NEED FOR ANY PRIMER, MESH OR FABRIC FOR ANY OF THE PENETRATIONS ON THE ROOF. QUALIROOF 601 WILL ADHERE TO ALL METAL VENTS, A/C STANDS AND LEAD STACKS.**



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THE FOLLOWING IS A GUIDELINE AND SPEC

TYPE OF ROOF SUBSTRATE: STRUCTURAL LIGHTWEIGHT CONCRETE/ &
STRUCTURAL CONCRETE 2500 PSI OR GREATER

ROOF SYSTEM: QUALIROOF 601 (NOA # 15-0611.09)
QUALIDECK 172 EPOXY PRIMER

1. ALLOW 7-10 DAYS FOR STRUCTURAL LIGHTWEIGHT CONCRETE TO CURE.
2. APPLY 2 PART A/B QUALIDECK 172 (18 MILS WET/ 225 SQUARE FEET PER 2.5 GALLON PAIL) (THIS WILL INSURE 20 YEAR WARRANTY)
3. ALLOW 12 HOURS OF DRY TIME OF QUALIDECK 172
4. GRID ROOF DECK 20 X 15 FOR PROPER COVERAGE RATE OF GREY BASE COAT QUALIROOF 601. PLACE 1 PAIL PER GRID TO INSURE PROPER COVERAGE RATE AS WELL.
5. INSTALL GREY BASE COAT WITH NOTCHED SQUEEGEE AND BACK ROLL (EAST/WEST) QUALIROOF GREY BASE 601 20 MILS WET. (PRODUCT WILL DRY AT 18 MILS)
6. ALLOW 4 HOURS OF DRY/CURE TIME PRIOR TO INSTALL OF WHITE TOP COAT QUALIROOF 601.
7. AFTER INSPECTION AND PROPER CURE OF BASE COAT, GRID ROOF AT 20'X15' TO RECEIVE WHITE TOP COAT. AGAIN PLACING 1 PAIL OF WHITE TOP COAT PER GRID TO INSURE PROPER COVERAGE RATE.
8. INSTALL WHITE TOP COAT QUALIROOF 601 WITH NOTCHED SQUEEGEE AND BACK ROLL (NORTH/SOUTH) 20 MILS WET. (PRODCUT WILL DRY AT 18 MILS)

**** PLEASE NOTE THAT YOU SHOULD HAVE PAINT BRUSHES AS WELL AS SMALL ROLLERS FOR THE DRIP EDGE AND THE RISERS FOR BETTER COVERAGE. PRODUCT WILL RUN OVER TO THE FACE OF THE DRIP EDGE (IF EXISTING) SO YOU MAY WANT TO COAT ALL OF THE DRIP EDGE TO MAKE THE PROJECT LOOK EVEN AND AESTHETICALLY PLEASING.**

*****THIS PRODUCT STICKS TO ITSELF SO IF THERE IS DETAIL WORK THAT NEEDS TO BE DONE AT A LATER TIME, PLEASE WIPE EXISTING QUALIROOF WITH A 25 TO 1 MIXTURE OF SIMPLE GREEN FOR BEST RESULTS.**

******THERE IS NO NEED FOR ANY PRIMER, MESH OR FABRIC FOR ANY OF THE PENETRATIONS ON THE ROOF. QUALIROOF 601 WILL ADHERE TO ALL METAL VENTS, A/C STANDS AND LEAD STACKS.**



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THE FOLLOWING IS A GUIDELINE AND SPEC

TYPE OF ROOF: GRANULE OR SMOOTH MODIFIED BITUMEN / SMOOTH OR GRANULE PEEL-N-STICK

PRODUCT: QUALIROOF 601 (NOA # 15-0611.09)

SIZE OF ROOF: OPEN

NUMBER OF PAILS NEEDED: DEPENDING ON SQUARE FOOTAGE

1. LIGHTLY PRESSURE WASH MODIFIED BITUMEN OR PEEL-N-STICK OF LOOSE GRANULES.
2. AFTER PRESSURE WASH IS COMPLETED BLOW, SWEEP, VACUUM REMAINING LOOSE GRANULES FROM THE SURFACE.
3. GRID ROOF 17 X 17.
4. PLACE GREY BASE COAT QUALIROOF 601 PAILS IN EACH GRID.
5. TAKE PICS OF LID LOT #.
6. MIX PRODUCT WITH PADDLE FOR 1-2 MINUTES UNTIL SOLVENT DISAPPEARS.
7. ROLL PRODCUT EAST/WEST OR NORTH/SOUTH.
8. ALLOW 3 HOURS TO DRY PROPERLY.
9. RE-GRID ROOF AT 17 X 17
10. PLACE PAILS IN EACH GRID.
11. TAKE PICS OF LID LOT #.
12. OPEN AND PADDLE FOR 1-2 MINUTES UNTIL SOLVENT DISAPPEARS.
13. ROLL QUALIROOF WHITE 601 IN OPPOSITE DIRECTION THAN THE FIRST COAT.

***IT IS EXTREMELY IMPORTANT THAT THE LAPS OF THE PAPER RECEIVE THE PRODUCT BOTH NORTH/SOUTH AND THEN EAST/WEST TO ALLOW BRIDGING TO OCCUR.

** PLEASE NOTE THAT YOU SHOULD HAVE PAINT BRUSHES AS WELL AS SMALL ROLLERS FOR THE DRIP EDGE FOR BETTER COVERAGE. PRODUCT WILL RUN OVER TO THE FACE OF THE DRIP EDGE SO YOU MAY WANT TO COAT ALL OF THE DRIP EDGE TO MAKE THE PROJECT LOOK EVEN AND AESTHETICALLY PLEASING.

***THERE IS NO NEED FOR ANY PRIMER, MESH OR FABRIC FOR ANY OF THE PENETRATIONS ON THE ROOF. QUALIROOF 601 WILL ADHERE TO ALL METAL VENTS, A/C STANDS AND LEAD STACKS.



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THE FOLLOWING IS A GUIDELINE AND SPEC

TYPE OF ROOF: PVC (POLYVINYL CHLORIDE)
PRODUCT: QUALIROOF 601 (NOA # 15-0611.09)
SIZE OF ROOF: OPEN
NUMBER IF PAILS NEEDED: DEPENDING ON SQUARE FOOTAGE

1. CLEAN EXISTING NEW PVC ROOF WITH A 25/1 MIXTURE OF SIMPLE GRREN AND WATER.
2. ALLOW ROOF TO COMPLETELY DRY
3. GRID ROOF AT 17 X 17.
4. PLACE 5-GALLON PAIL IN EACH GRID.
5. TAKE PHOTO OF LIDS LOT # OF THE GREY 601.
6. OPEN PRODUCT AND MIX WITH PADDLE FOR 1-2 MINUTES UNTIL ALL SOLVENT HAS DISAPPEARED.
7. ROLL PRODUCT WITH MED. NAP ROLLER EITHER EAST/WEST OR NORTH/SOUTH FOR FIRST COAT. (DO THE OPPOSITE ON THE SECOND COAT FOR BEST COVERAGE)
8. IF ROOF IS SPRAYED PLEASE USE A GRACO 5900 OR BIGGER TO ALLOW PROPER DISTRIBUTION OF PRODUCT PER COAT.
9. ALLOW 3 HOURS TO DRY BEFORE APPLYING TOP WHITE COAT.
10. RE-GRID ROOF.
11. PHOTOGRAPH LIDS LOT # OF WHITE 601.
12. PADDLE 1-2 MINTUES UNTIL SOLVENT HAS DISAPPEARED
13. ROLL SECOND COAT OF 601 THE OPPOSITE DIRECTION OF THE FIRST COAT.

**** PLEASE NOTE THAT YOU SHOULD HAVE PAINT BRUSHES AS WELL AS SMALL ROLLERS FOR THE DRIP EDGE FOR BETTER COVERAGE. PRODUCT WILL RUN OVER TO THE FACE OF THE DRIP EDGE SO YOU MAY WANT TO COAT ALL OF THE DRIP EDGE TO MAKE THE PROJECT LOOK EVEN AND AESTHETICALLY PLEASING.**

*****IF THE ROOF PITCH IS GREATER THAN 3/12 ROOF APPLY PRODUCT AT 10 MILS EACH COAT TO PREVENT PRODUCT FROM COLLECTING AT EAVE OF THE ROOF.**

******THERE IS NO NEED FOR ANY PRIMER, MESH OR FABRIC FOR ANY OF THE PENETRATIONS ON THE ROOF. QUALIROOF 601 WILL ADHERE TO ALL METAL VENTS, A/C STANDS AND LEAD STACKS.**



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THE FOLLOWING IS A GUIDELINE AND SPEC

TYPE OF ROOF: STANDING SEAM 16-18-INCH PANEL WITH 1" RISER
W/ 90° OR 180° CRIMP OR 5 V CRIMP

PRODUCT: QUALIROOF 601 (NOA # 15-0611.09)

SIZE OF ROOF: OPEN

NUMBER IF PAILS NEEDED: DEPENDING ON SQUARE FOOTAGE

1. CLEAN EXISTING NEW METAL ROOF OF FACTORY MILL FINISH TO A CLEAN WORKABLE SURFACE.
2. SOLVENT WIPE THE ENTIRE ROOF WITH TOLUENE, XYLENE OR ACETONE.
3. ALLOW SOLVENT TO DRY.
4. GRID ROOF AT 17 X 17.
5. PLACE 5-GALLON PAIL IN EACH GRID.
6. TAKE PHOTO OF LIDS LOT # OF THE GREY 601.
7. OPEN PRODUCT AND MIX WITH PADDLE FOR 1-2 MINUTES UNTIL ALL SOLVENT HAS DISAPPEARED.
8. ROLL PRODUCT WITH MED. NAP ROLLER EITHER EAST/WEST OR NORTH/SOUTH FOR FIRST COAT. (DO THE OPPOSITE ON THE SECOND COAT FOR BEST COVERAGE)
9. IF ROOF IS SPRAYED PLEASE USE A GRACO 5900 OR BIGGER TO ALLOW PROPER DISTRIBUTION OF PRODUCT PER COAT.
10. ALLOW 3 HOURS TO DRY BEFORE APPLYING TOP WHITE COAT.
11. RE-GRID ROOF.
12. PHOTOGRAPH LIDS LOT # OF WHITE 601.
13. PADDLE 1-2 MINTUES UNTIL SOLVENT HAS DISAPPEARED
14. ROLL SECOND COAT OF 601 THE OPPOSITE DIRECTION OF THE FIRST COAT.

**** PLEASE NOTE THAT YOU SHOULD HAVE PAINT BRUSHES AS WELL AS SMALL ROLLERS FOR THE DRIP EDGE AND THE RISERS FOR BETTER COVERAGE. PRODUCT WILL RUN OVER TO THE FACE OF THE DRIP EDGE SO YOU MAY WANT TO COAT ALL OF THE DRIP EDGE TO MAKE THE PROJECT LOOK EVEN AND AESTHETICALLY PLEASING.**

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******THERE IS NO NEED FOR ANY PRIMER, MESH OR FABRIC FOR ANY OF THE PENETRATIONS ON THE ROOF. QUALIROOF 601 WILL ADHERE TO ALL METAL VENTS, A/C STANDS AND LEAD STACKS.**



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THE FOLLOWING IS A GUIDELINE AND SPEC

TYPE OF ROOF: TPO (THERMOPLASTIC POLYOLEFIN)
PRODUCT: QUALIROOF 601 (NOA # 15-0611.09)
SIZE OF ROOF: OPEN
NUMBER IF PAILS NEEDED: DEPENDING ON SQUARE FOOTAGE

1. CLEAN EXISTING NEW TPO ROOF WITH A 25/1 MIXTURE OF SIMPLE GRREN AND WATER.
2. ALLOW ROOF TO COMPLETELY DRY
3. GRID ROOF AT 17 X 17.
4. PLACE 5-GALLON PAIL IN EACH GRID.
5. TAKE PHOTO OF LIDS LOT # OF THE GREY 601.
6. OPEN PRODUCT AND MIX WITH PADDLE FOR 1-2 MINUTES UNTIL ALL SOLVENT HAS DISAPPEARED.
7. ROLL PRODUCT WITH MED. NAP ROLLER EITHER EAST/WEST OR NORTH/SOUTH FOR FIRST COAT. (DO THE OPPOSITE ON THE SECOND COAT FOR BEST COVERAGE)
8. IF ROOF IS SPRAYED PLEASE USE A GRACO 5900 OR BIGGER TO ALLOW PROPER DISTRIBUTION OF PRODUCT PER COAT.
9. ALLOW 3 HOURS TO DRY BEFORE APPLYING TOP WHITE COAT.
10. RE-GRID ROOF.
11. PHOTOGRAPH LIDS LOT # OF WHITE 601.
12. PADDLE 1-2 MINTUES UNTIL SOLVENT HAS DISAPPEARED
13. ROLL SECOND COAT OF 601 THE OPPOSITE DIRECTION OF THE FIRST COAT.

**** PLEASE NOTE THAT YOU SHOULD HAVE PAINT BRUSHES AS WELL AS SMALL ROLLERS FOR THE DRIP EDGE FOR BETTER COVERAGE. PRODUCT WILL RUN OVER TO THE FACE OF THE DRIP EDGE SO YOU MAY WANT TO COAT ALL OF THE DRIP EDGE TO MAKE THE PROJECT LOOK EVEN AND AESTHETICALLY PLEASING.**

*****IF THE ROOF PITCH IS GREATER THAN 3/12 ROOF APPLY PRODUCT AT 10 MILS EACH COAT TO PREVENT PRODUCT FROM COLLECTING AT EAVE OF THE ROOF.**

******THERE IS NO NEED FOR ANY PRIMER, MESH OR FABRIC FOR ANY OF THE PENETRATIONS ON THE ROOF. QUALIROOF 601 WILL ADHERE TO ALL METAL VENTS, A/C STANDS AND LEAD STACKS.**

Acrylic Tennis & Recreational Sport Surfaces

COLORCOAT System Specification

PART 1 – GENERAL

1.1 DESCRIPTION

- A. Scope: This guide specification covers the application of the Laykold ColorCoat system. Advanced Polymer Technology Corporation of Harmony, Pennsylvania, U.S.A provides technical data and guideline specifications only. Consult with a professional engineer or architect for a formal specification. The Laykold ColorCoat system is designed and used for the protection, beautification and surface pace for a variety of all-weather athletic and recreational surfaces, including tennis courts, basketball courts, playgrounds, handball courts, paddle tennis courts, etc. Laykold products should only be applied to properly prepared concrete or asphalt substrates. The Laykold ColorCoat system is comprised of Laykold Acrylic Deep Patch, Laykold Acrylic Resurfacer, Laykold ColorCoat Concentrate, Laykold Line Prime and Laykold Textured White Line Paint. When applying the Laykold ColorCoat system to a concrete substrate Laykold Poly Primer (< 75% Relative Humidity), Laykold Epoxy VTB Primer (≥ 75% RH), or if approved Laykold Acrylic Concrete Primer (adhesion promoter), is required..
- B. Court Construction: Refer to the American Sports Builders Association (ASBA) manual Tennis Courts: A Construction & Maintenance Manual for court construction details. This publication may be obtained by calling the ASBA at 443-640-1042 or visiting www.sportsbuilders.org.

1.2 QUALITY ASSURANCE

- A. All tennis court surfacing materials shall be Laykold as manufactured by Advanced Polymer Technology (APT) of Harmony, PA, an ISO 9001 certified manufacturer. APT may be contacted via telephone 888-266-4221, fax 724-452-1703, or web site www.laykold.com
- B. All work shall be done in accordance with American Sports Builders Association (ASBA) guidelines.
- C. The contractor shall record the batch number of each product used on the site and maintain it through the warranty period.
- D. The contractor shall provide the inspector, upon request, an estimate of the volume of each product to be used on the site.

1.3 SUBMITTALS

- A. Submit one set of Advanced Polymer Technology's "Laykold ColorCoat System Specifications".
- B. Submit system components Technical Data Sheets (TDS) and one Laykold Color Chart.
- C. Submit current Safety Data Sheets.
- D. Submit current ISO Quality Management System Certification certificate.
- E. Submit current ITF surface classification.

1.4 WORKING CONDITIONS & LIMITATIONS

- A. Asphalt and concrete substrates shall be allowed to cure a minimum of 30 days before application of any coatings. If time sensitive and/or high RH level is present, Laykold Epoxy VTB Primer can be applied to 5-day old (minimum) concrete substrates according to coatings manufacturer guidelines. RH testing is required.
- B. The substrate shall be CLEAN and DRY before coatings are applied. The surface of the substrate shall be inspected and made sure to be free of grease, oil, dust, dirt and other foreign matter before any coatings are applied.
- C. Water used in all mixtures shall be fresh and potable.
- D. No part of the surfacing system shall be applied during a rainfall, or when rainfall is imminent.
- E. Do not apply coatings to a cold surface. Surface and air temperatures must be a minimum of 50°F (10°C) and rising.
- F. Do not apply coatings if extremely high humidity prevents drying.
- G. No coatings are to be applied if surface temperature exceeds 130°F (54°C).
- H. All materials shall be delivered to the job site in sealed containers with the manufacturer's label affixed.
- I. Color(s) of acrylic color coating system are to be selected by owner from manufacturer's product color card.
- J. If all the above conditions are met, surfacing materials shall have a one-year limited warranty as supplied by the manufacturer.

1.5 WARRANTY

Advanced Polymer Technology Corp. (APT) warrants, subject to limitations, exclusions, terms and conditions contained herein, that the material supplied by APT, and which is covered by this Warranty, will not fail due to defects for one (1) year. APT's maximum responsibility under this Limited Warranty shall be limited to the replacement of material in a quantity not in excess of the quantity of material furnished by APT in connection with the project. No salesman or other employee or agent of APT is authorized to bind APT by any agreement, warranty, promise, or understanding not herein expressed.

This Limited Warranty is made and given in lieu of all other warranties and conditions, expressed or implied, statutory or otherwise, including but not limited to any warranties or conditions of merchantability, durability and of fitness for a particular purpose. Under no circumstances shall APT be liable or otherwise obligated for indirect, incidental or consequential damages of any nature or kind whatsoever, including damages arising in contract, tort, product liability or otherwise.

PART 2 – PRODUCTS

2.1 LAYKOLD COLORCOAT SYSTEM MATERIALS

- A. All components of Laykold ColorCoat system shall be supplied by Advanced Polymer Technology, an ISO 9001 certified manufacturer. ColorCoat system components shall not contain ANY lead, mercury, nor any heavy metals, PCB, or formaldehyde.
- B. Laykold Poly Primer/Laykold Epoxy VTB Primer (concrete courts only). Shall be a two-component, 100% solids, solvent-free primer. If approved, Laykold Acrylic Concrete Primer (adhesion promoter) may be substituted where concrete's relative humidity, hydrostatic pressure, efflorescence, and staining are not a concern.
 - 1. Percent Solids by Weight 98% (minimum)
 - 2. Weight 9.01 lbs./gallon
- C. Laykold Acrylic Resurfacer. Acrylic-based emulsion used for smoothing rough pavements. 1 to 2-coats as needed. Laykold NuSurf is recommended for use on new asphalt pavements and is an acceptable substitute for Acrylic Resurfacer.
 - 1. Percent Solids by Weight 52% (minimum)
 - 2. Weight 10.68 lbs/gallon
- D. Laykold ColorCoat Concentrate textured batch mixture. Pigmented wear-resistant acrylic emulsion. 2-coats required. Advantage Laykold factory textured color or Laykold Colorflex textured batch mixture are acceptable substitutes.
 - 1. Percent Solids by Weight 49 % (minimum)
 - 2. Weight: 12.9 (+/- 3) lbs/gallon
- E. Optional Laykold ColorCoat Concentrate finish batch mixture. Pigmented wear-resistant acrylic emulsion. 1-coat. Laykold Colorflex finish batch mixture is an acceptable substitute. A finish coat will speed up the surface pace of the court.
 - 1. Percent Solids by Weight 49 % (minimum)
 - 2. Weight: 9.47-9.52 lbs/gallon
- F. Laykold Line Prime. Clear drying acrylic emulsion line primer. 1-coat required.
 - 1. Percent Solids by Weight 29%
 - 2. Weight: 8.9 lbs/gallon
- G. Laykold Textured White Line Paint. Factory textured, wear-resistant acrylic emulsion line marking paint. 1-2 coats as required.
 - 1. Percent Solids by Weight 67% (minimum)
 - 2. Weight: 11.4 lbs/gallon

PART 3 – EXECUTION

3.1 INSPECTION

- A. Concrete substrates shall be installed with a vapor barrier according to ASBA guidelines and be finished with a CSP 3 profile.
- B. Inspect concrete or asphalt substrate for dryness. Concrete substrates are to be tested according to coatings manufacturer guidelines using ASTM F2170 (Relative Humidity testing via

probe) or ASTM F1869-98 (Anhydrous Calcium Chloride test)). Report any discrepancies to general contractor.

- C. Surface of substrate shall be cleaned by general contractor as required.
- D. Surfacing contractor to approve site and surface conditions prior to proceeding with application of any coatings.

3.2 INSTALLATION

- A. Primer (for concrete substrates only): When installing the Laykold ColorCoat system over concrete, Laykold Poly Primer must be applied as the first layer of the system. After RH tests less than 75%, Laykold Poly Primer can be applied. Laykold Poly Primer is mixed by pouring the "B" component into the "A" component and mixing using a low speed jiffy mixer (400 to 600 rpm) for 2 minutes. Scrape down the sides of the bucket and mix for an additional minute. Do not incorporate air when mixing. Spread the mixed primer on the substrate using a high-quality, medium nap roller to achieve a total coverage of approximately 0.030 gal/yd² (0.15 kg/m² - 300 ft²/gal). The working time for the Primer is approximately 50 minutes and is reduced in high temperatures. Lightly broadcast 40 to 60 mesh silica sand onto the wet primer at the rate of 5 pounds per 100 sq. ft. (0.24 kg/m²) to create a rough texture. Allow 5 to 6 hours drying time before proceeding. If the concrete substrate tests with RH of 75% or greater or a MVER (Anhydrous Calcium Chloride) of greater than 3 lbs/1000 sqf/24 hours, more cure time is required or Laykold Epoxy VTB Primer can be used (see Laykold Epoxy VTB Primer TDS for application guidelines). Acrylic Concrete Primer may be substituted under certain conditions when approved by owner and/or design professional. If approved for use, see Acrylic Concrete Primer technical data sheet for application details.
- B. Patching: Once the surface has been thoroughly cleaned and is free of all loose material, dirt, or dust, the court shall be flooded and allowed to drain a minimum of 30 minutes and a maximum of 1 hour. Any area that holds water (birdbaths) in a depth greater than 1/16 inch (1.6 mm or the thickness of a nickel) shall be outlined and patched.
 - 1. Surface Leveling: Birdbaths shall be leveled using a Laykold Acrylic Deep Patch court patch binder slurry. Prime area to be patched with a 50/50 mixture of Laykold Acrylic Deep Patch and water. Primer shall be brushed into place and allowed to dry prior to patching. Patch mix shall consist of Laykold Acrylic Deep Patch, 50-mesh sand and Type 1 Portland Cement. Mix as per manufacturer directions.
 - 2. Crack Filling: Cracks shall be cleaned, primed, and filled using Laykold Acrylic Resurfacer if cracks are 1/16 inch or less. If greater than 1/16 inch, Laykold Acrylic Deep Patch court patch binder slurry should be used to fill cracks. Mix as per manufacturer's directions.
 - 3. All areas that are repaired/leveled/corrected using a court patch binder mixture shall be allowed to fully cure and then ground smooth and level with the substrate by stone or an acceptable mechanical method.
- C. Filler Coat(s): Apply one coat of Laykold Acrylic Resurfacer using a 24", 30" or 36" wide 70 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold Acrylic Resurfacer, 30 to 40 gallons (115-130 kg) of potable water, and 600 to 900 pounds (270-400 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd² (0.29-0.40 kg/m² - 129-180 ft²/gal) of undiluted Laykold Acrylic Resurfacer per coat. NOTE: If the asphalt is very porous, an optional 2nd application of Laykold Acrylic Resurfacer may be applied. Each coat should be completely dry before applying subsequent coats. Laykold Nusurf is an acceptable substitute for Laykold Acrylic Resurfacer and is highly recommended for use on new asphalt pavements, older asphalt pavements with hairline surface cracking, slip-sheet/free-floating surfaces and/or repair methods over cushioned courts.

- D. Textured Color Coats: Apply two coats of Laykold ColorCoat Concentrate textured batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold ColorCoat Concentrate, 25 to 35 gallons (95-115 kg) of potable water and 300 to 450 pounds (135-203 kg) of clean, bagged silica sand (70 to 100 mesh). The application rate shall be 0.04-0.05 gal/yd² (0.23-0.29 kg/m² - 180-225 ft²/gal) of undiluted ColorCoat Concentrate per coat. Each coat should be completely dry before applying subsequent coats. Laykold ColorFlex is a highly recommended substitute for ColorCoat Concentrate on cushioned courts.
- E. Optional Finish Color Coat: Apply one coat of Laykold ColorCoat Concentrate finish batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of ColorCoat Concentrate and 55 gallons (210 kg) of potable water. The application rate shall be 0.03-0.04 gal/yd² (0.17-0.23 kg/m² - 225-300 ft²/gal) of undiluted ColorCoat Concentrate per coat. Each coat should be completely dry before applying subsequent coats. Allow topcoat to cure a minimum of 24 hours before applying game lines. Laykold ColorFlex is a highly recommended substitute for ColorCoat Concentrate on cushioned courts. A finish coat WILL produce a faster surface pace.
- F. Game Lines:
1. Wait a minimum of 24 hours after final color coat before applying line paint.
 2. All lines are to be applied by painting between masking tape with a paintbrush or roller according to U.S.T.A. and A.S.B.A. specifications.
 3. Prime masked lines with Laykold Line Prime and allow a minimum drying time of 1-hour.
 4. Apply 1 to 2 coats as needed of Laykold Textured White Line Paint with a brush or roller.
 5. Remove masking tape immediately after lines are dry.
 6. Allow lines to dry a minimum of 24 hours before allowing play on court.
- G. Remove all excess and waste materials from the area of work. Dispose of empty containers in accordance with federal and local statutes.

3.3 PROTECTION

- A. Cure Time. No traffic or other trades shall be allowed on the surface for a period of one week following completion to allow for complete and proper cure of the finish.
- B. Other Trades. It is the responsibility of the general contractor to protect the surface from damage by other trades before acceptance by the owner or the owner's authorized agent.
- C. Do not allow surrounding sprinkler systems to spray water on the newly applied court surface for a period of one week after completion.
- D. Do not place any benches, chairs, ball baskets, or any other type of court equipment on the newly applied court surface for a period of one week after completion.
- E. Do not allow black soled shoes, bicycles, rollerblades, etc. on the court surface. Black scuff marks cannot be removed!

Acrylic, all-weather tennis and athletic surfacing systems are designed and used to visually enhance asphalt and concrete substrates while providing a desired surface texture, surface pace and/or speed of play. Laykold systems and system components may be used to level surface depressions, fill substrate cracking, smooth surface roughness and make other such adjustments to a new or existing surface/substrate. However, acrylic all-weather tennis and athletic surfacing systems are NOT capable of solving the problems and/or forces associated with cracked, deteriorating, or damaged substrates.

Acrylic Tennis & Recreational Sport Surfaces

ADVANTAGE Laykold System Specification

PART 1 – GENERAL

1.1 DESCRIPTION

- A. Scope: This guide specification covers the application of the Advantage Laykold system. Advanced Polymer Technology Corporation of Harmony, Pennsylvania, U.S.A provides technical data and guideline specifications only. Consult with a professional engineer or architect for a formal specification. The Advantage Laykold system is designed and used for the protection, beautification and surface pace for a variety of all-weather athletic and recreational surfaces, including tennis courts, basketball courts, playgrounds, handball courts, paddle tennis courts, etc. Laykold products should only be applied to properly prepared concrete or asphalt substrates. The Advantage Laykold system is comprised of Laykold Acrylic Deep Patch, Laykold Acrylic Resurfacer, Advantage Laykold concentrate, Laykold Line Prime and Laykold Textured White Line Paint. When applying the Advantage Laykold system to a concrete substrate Laykold Poly Primer (< 75% Relative Humidity), Laykold Epoxy VTB Primer (≥ 75% RH), or if approved Laykold Acrylic Concrete Primer (adhesion promoter), is required.
- B. Court Construction: Refer to the American Sports Builders Association (ASBA) manual Tennis Courts: A Construction & Maintenance Manual for court construction details. This publication may be obtained by calling the ASBA at 443-640-1042 or visiting www.sportsbuilders.org.

1.2 QUALITY ASSURANCE

- A. All tennis court surfacing materials shall be Laykold as manufactured by Advanced Polymer Technology (APT) of Harmony, PA, an ISO 9001 certified manufacturer. APT may be contacted via telephone 888-266-4221, fax 724-452-1703, or web sites www.laykold.com.
- B. All work shall be done in accordance with American Sports Builders Association (ASBA) guidelines.
- C. The contractor shall record the batch number of each product used on the site and maintain it through the warranty period.
- D. The contractor shall provide the inspector, upon request, an estimate of the volume of each product to be used on the site.

1.3 SUBMITTALS

- A. Submit one set of Advanced Polymer Technology's "Advantage Laykold System Specifications".
- B. Submit system components Technical Data Sheets (TDS) and one Laykold Color Chart.
- C. Submit current Safety Data Sheets.
- D. Submit current ISO Quality Management System Certification certificate.
- E. Submit current ITF surface classification.

1.4 WORKING CONDITIONS & LIMITATIONS

- A. Asphalt and concrete substrates shall be allowed to cure a minimum of 30 days before application of any coatings. If time sensitive and/or high RH level is present, Laykold Epoxy VTB Primer can be applied to 5-day old (minimum) concrete substrates according to coatings manufacturer guidelines. RH testing is required.
- B. The substrate shall be CLEAN and DRY before coatings are applied. The surface of the substrate shall be inspected and made sure to be free of grease, oil, dust, dirt and other foreign matter before any coatings are applied.
- C. Water used in all mixtures shall be fresh and potable.
- D. No part of the surfacing system shall be applied during a rainfall, or when rainfall is imminent.
- E. Do not apply coatings to a cold surface. Surface and air temperature must be a minimum of 50°F (10°C) and rising.
- F. Do not apply coatings if extremely high humidity prevents drying.
- G. No coatings are to be applied if surface temperatures exceed 130°F (54°C).
- H. All materials shall be delivered to the job site in sealed containers with the manufacturer's label affixed.
- I. Color(s) of acrylic color coating system is to be selected by owner from manufacturer's product color card.
- J. If all the above conditions are met, surfacing materials shall have a one-year limited warranty as supplied by the manufacturer.

1.5 WARRANTY

Advanced Polymer Technology Corp. (APT) warrants, subject to limitations, exclusions, terms and conditions contained herein, that the material supplied by APT, and which is covered by this Warranty, will not fail due to defects for one (1) year. APT's maximum responsibility under this Limited Warranty shall be limited to the replacement of material in a quantity not in excess of the quantity of material furnished by APT in connection with the project. No salesman or other employee or agent of APT is authorized to bind APT by any agreement, warranty, promise, or understanding not herein expressed.

This Limited Warranty is made and given in lieu of all other warranties and conditions, expressed or implied, statutory or otherwise, including but not limited to any warranties or conditions of merchantability, durability and of fitness for a particular purpose. Under no circumstances shall APT be liable or otherwise obligated for indirect, incidental or consequential damages of any nature or kind whatsoever, including damages arising in contract, tort, product liability or otherwise.

PART 2 – PRODUCTS

2.1 ADVANTAGE LAYKOLD SYSTEM MATERIALS

- A. All components of Advantage Laykold system shall be supplied by Advanced Polymer Technology, an ISO 9001 certified manufacturer. Advantage Laykold system components shall not contain ANY lead, mercury, nor any heavy metals, PCB, or formaldehyde.
- B. Laykold Poly Primer/Laykold Epoxy VTB Primer (concrete courts only). Shall be a two-component, 100% solids, solvent-free primer. If approved, Laykold Acrylic Concrete Primer (adhesion promoter) may be substituted where concrete's relative humidity, hydrostatic pressure, efflorescence and staining are not a concern.
 - 1. Percent Solids by Weight 98% (minimum)
 - 2. Weight 9.01 lbs./gallon
- C. Laykold Acrylic Resurfacer. Acrylic-based emulsion used for smoothing rough pavements. 1 to 2-coats as required. Laykold NuSurf is recommended for use on new asphalt pavements and is an acceptable substitute for Acrylic Resurfacer.
 - 1. Percent Solids by Weight 52% (minimum)
 - 2. Weight 10.7 lbs./gallon
- D. Advantage Laykold Color. A factory textured, pigmented wear-resistant acrylic emulsion. 2-coats required. No bagged sand is to be added at job-site.
 - 1. Percent Solids by Weight 72.9% (minimum)
 - 2. Weight 12.52 lbs./gallon
- E. Laykold Line Prime. Clear drying acrylic emulsion line primer. 1-coat required.
 - 1. Percent Solids by Weight 29%
 - 2. Weight: 8.9 lbs./gallon
- F. Laykold Textured White Line Paint. Factory textured, wear-resistant acrylic emulsion line marking paint. 1-2 coats as required.
 - 1. Percent Solids by Weight 67% (minimum)
 - 2. Weight: 11.4 lbs/gallon

PART 3 – EXECUTION

3.1 INSPECTION

- A. Concrete substrates shall be installed with a vapor barrier according to ASBA guidelines and be finished with a CSP 3 profile.
- B. Inspect concrete or asphalt substrate for dryness. Concrete substrates are to be tested according to coatings manufacturer guidelines using ASTM F2170 (Relative Humidity testing via probe) or ASTM F1869-98 (Anhydrous Calcium Chloride test). Report any discrepancies to general contractor or owner.
- C. Surface of substrate shall be cleaned by general contractor as required.

- D. Surfacing contractor to approve site and surface conditions prior to proceeding with application of any coatings.

3.2 **INSTALLATION**

- A. Primer (for concrete substrates only): After RH tests less than 75% Laykold Poly Primer can be applied. Laykold Poly Primer is mixed by pouring the "B" component into the "A" component and mixing using a low speed jiffy mixer (400 to 600 rpm) for 2 minutes. Scrape down the sides of the bucket and mix for an additional minute. Do not incorporate air when mixing. Spread the mixed primer on the substrate using a high-quality, medium nap roller to achieve a total coverage of approximately 0.030 gal/yd² (0.15 kg/m² - 300 ft²/gal). The working time for the Primer is approximately 50 minutes and is reduced in high temperatures. Lightly broadcast 40 to 60 mesh silica sand onto the wet primer at the rate of 5 pounds per 100 sq. ft. (0.24 kg/m²) to create a rough texture. Allow 5 to 6 hours drying time before proceeding. If the concrete substrate tests with RH of 75% or greater or a MVER (Anhydrous Calcium Chloride) of greater than 3 lbs/1000 sqft/24 hours, more cure time is required or Laykold Epoxy VTB Primer can be used (see Laykold Epoxy VTB Primer TDS for application guidelines). Acrylic Concrete Primer may be substituted under certain conditions when approved by owner and/or design professional. If approved for use, see Acrylic Concrete Primer tech data sheet for application details.
- B. Patching: Once the surface has been thoroughly cleaned and is free of all loose material, dirt, or dust, the court shall be flooded and allowed to drain a minimum of 30 minutes and a maximum of 1 hour. Any area that holds water (birdbaths) in a depth greater than 1/16 inch (1.6 mm or the thickness of a nickel) shall be outlined and patched.
1. Surface Leveling: Birdbaths shall be leveled using a Laykold Acrylic Deep Patch court patch binder slurry. Prime area with a 50/50 mixture of Laykold Acrylic Deep Patch and water. Primer shall be brushed into place and allowed to dry prior to patching. Patch mix shall consist of Laykold Acrylic Deep Patch, 50-mesh sand and Portland cement. Mix as per manufacturer directions.
 2. Crack Filling: Cracks shall be cleaned, primed, and filled using Laykold Acrylic Resurfacer if cracks are 1/16 inch or less. If greater than 1/16 inch, Laykold Acrylic Deep Patch court patch binder slurry should be used to fill cracks. Mix as per manufacturer's directions.
 3. All areas that are repaired/leveled/corrected using a court patch binder mixture shall be allowed to fully cure and then ground smooth and level with the substrate by stone or an acceptable mechanical method.
- C. Filler Coat(s): Apply one coat of Laykold Acrylic Resurfacer using a 24", 30" or 36" wide 70 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold Acrylic Resurfacer, 30 to 40 gallons (115-130 kg) of potable water, and 600 to 900 pounds (270-400 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd² (0.29-0.40 kg/m² - 129-180 ft²/gal) of undiluted Laykold Acrylic Resurfacer per coat. NOTE: If the asphalt is very porous, an optional 2nd application of Laykold Acrylic Resurfacer may be applied. Each coat should be completely dry before applying subsequent coats. Laykold NuSurf is highly recommended for use on new asphalt pavements and/or older pavements that have experienced hairline surface cracking.
- D. Textured Color Coats: Apply two coats of Advantage Laykold textured color concentrate batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 30 gallons (170 kg) of Advantage Laykold and 15-20 gallons (55-75 kg) of potable water. The application rate shall be 0.06-0.07 gal/yd² (0.41-0.47 kg/m² - 130-150 ft²/gal) of undiluted Advantage Laykold per coat. Each coat should be completely dry before applying subsequent

coats. Laykold ColorFlex is a highly recommended substitute for Advantage Laykold on cushioned courts.

E. Game Lines:

1. Wait a minimum of 24 hours after final color coat before applying line paint.
2. All lines are to be applied by painting between masking tape with a paintbrush or roller according to U.S.T.A. and A.S.B.A. specifications.
3. Prime masked lines with Laykold Line Prime and allow a minimum drying time of 1-hour.
4. Apply 1 to 2 coats as needed of Laykold Textured White Line Paint with a brush or roller.
5. Remove masking tape immediately after lines are dry.
6. Allow lines to dry a minimum of 24 hours before allowing play on court.

F. Remove all excess and waste materials from the area of work. Dispose of empty containers in accordance with federal and local statutes.

3.3 **PROTECTION**

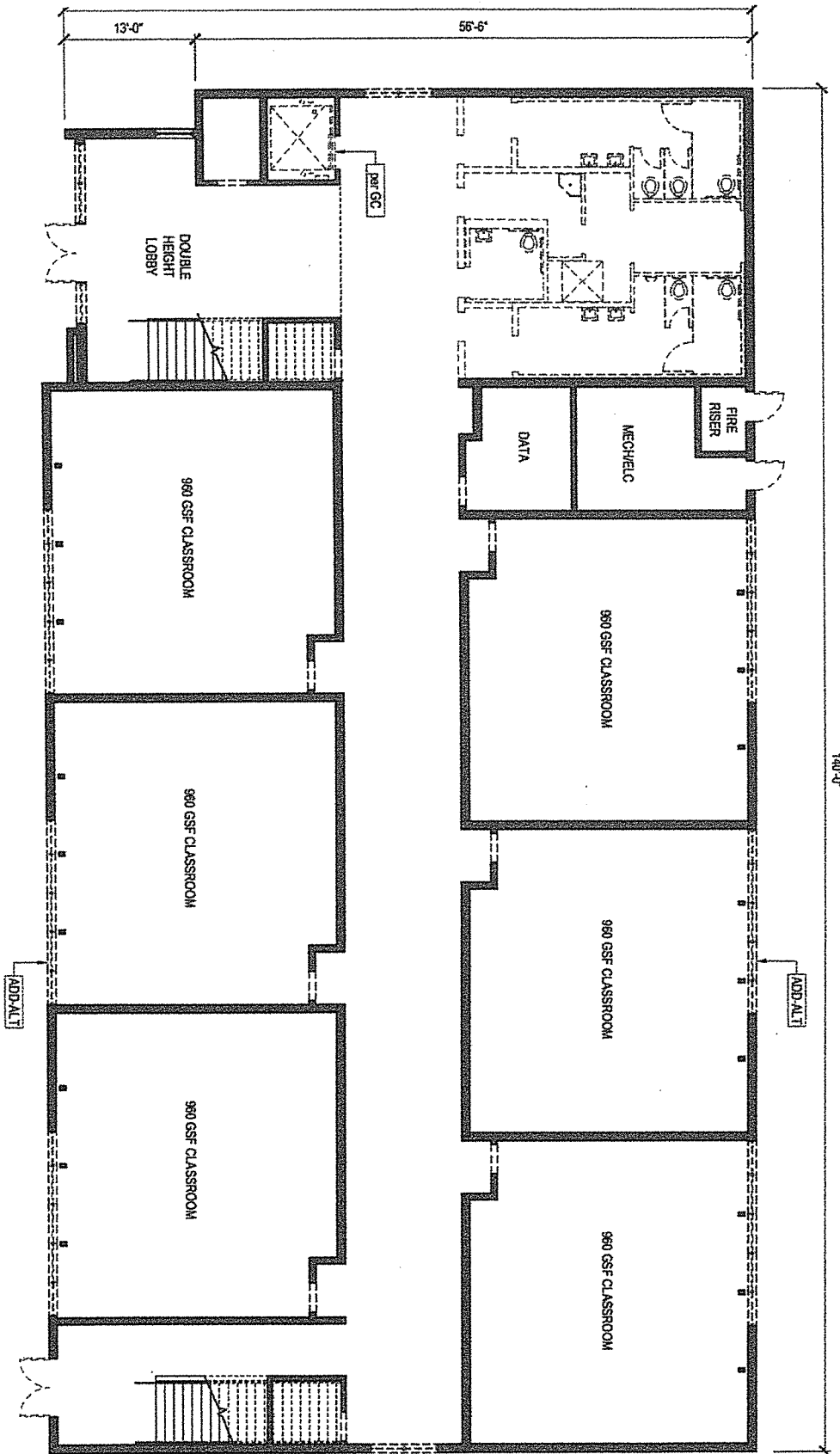
- A. Cure Time. No traffic or other trades shall be allowed on the surface for a period of one week following completion to allow for complete and proper cure of the finish.
- B. Other Trades. It is the responsibility of the general contractor to protect the surface from damage by other trades before acceptance by the owner or the owner's authorized agent.
- C. Do not allow surrounding sprinkler systems to spray water on the newly applied court surface for a period of one week after completion.
- D. Do not place any benches, chairs, ball baskets, or any other type of court equipment on the newly applied court surface for a period of one week after completion.
- E. Do not allow black soled shoes, bicycles, rollerblades, etc. on the court surface. Black scuff marks cannot be removed!

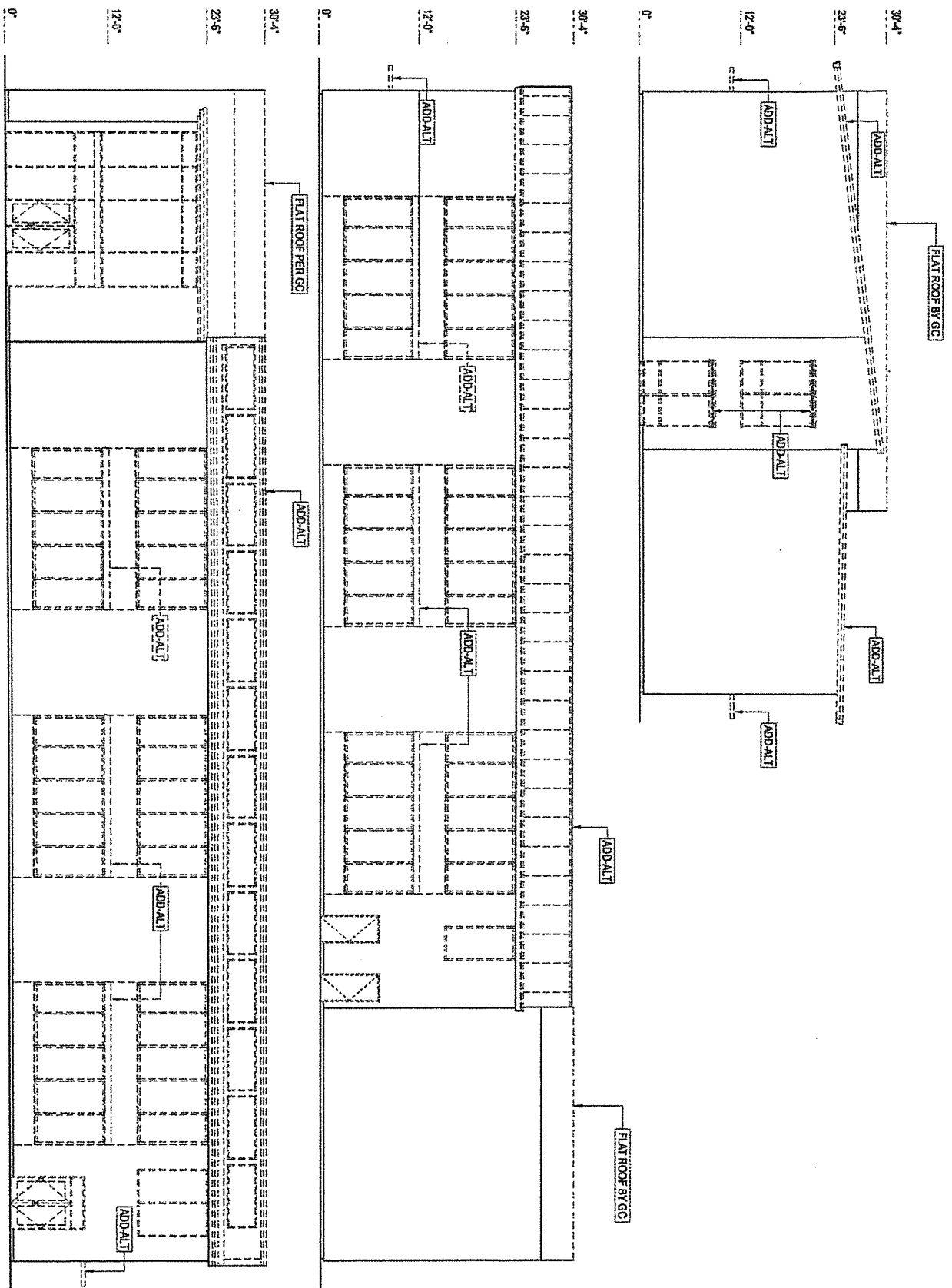
Acrylic, all-weather tennis and athletic surfacing systems are designed and used to visually enhance asphalt and concrete substrates while providing a desired surface texture, surface pace and/or speed of play. Laykold systems and system components may be used to level surface depressions, fill substrate cracking, smooth surface roughness and make other such adjustments to a new or existing surface/substrate. However, acrylic all-weather tennis and athletic surfacing systems are NOT capable of solving the problems and/or forces associated with cracked, deteriorating, or damaged substrates.

[END OF SECTION]

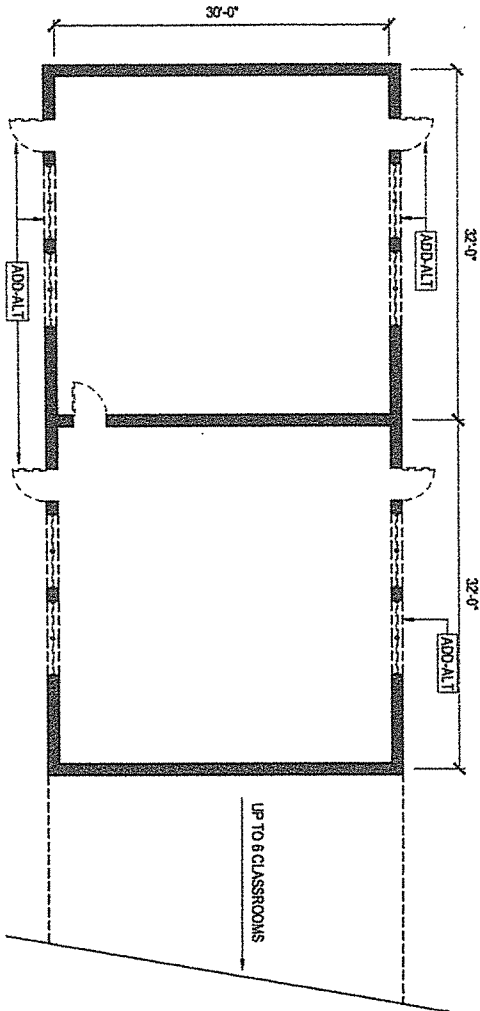
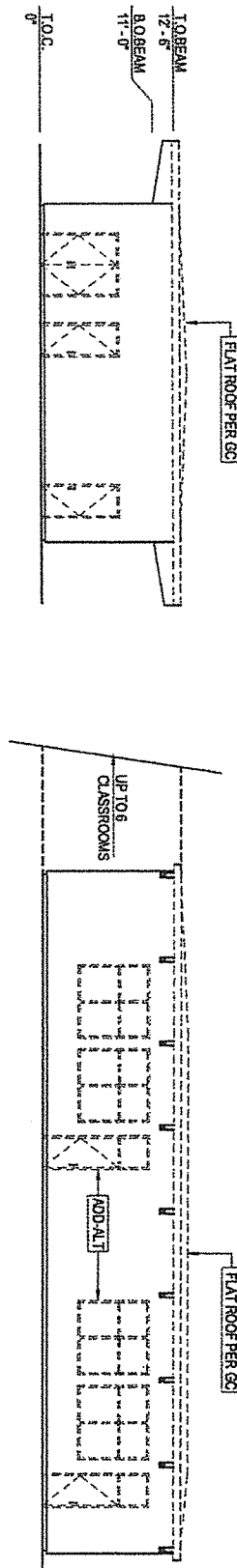
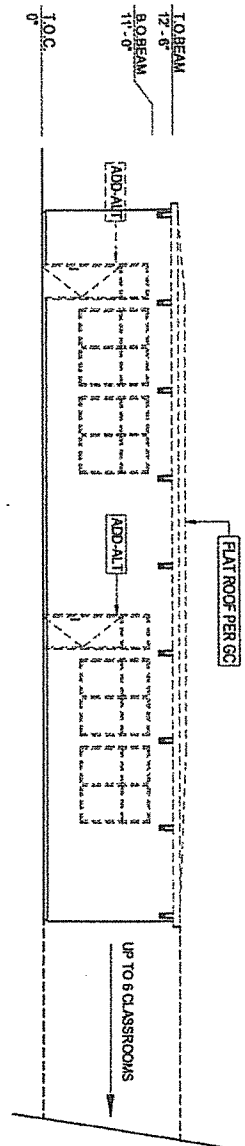
TAB B-FLOOR PLANS

2-STORY DOUBLE LOADED, 12 CLASSROOMS

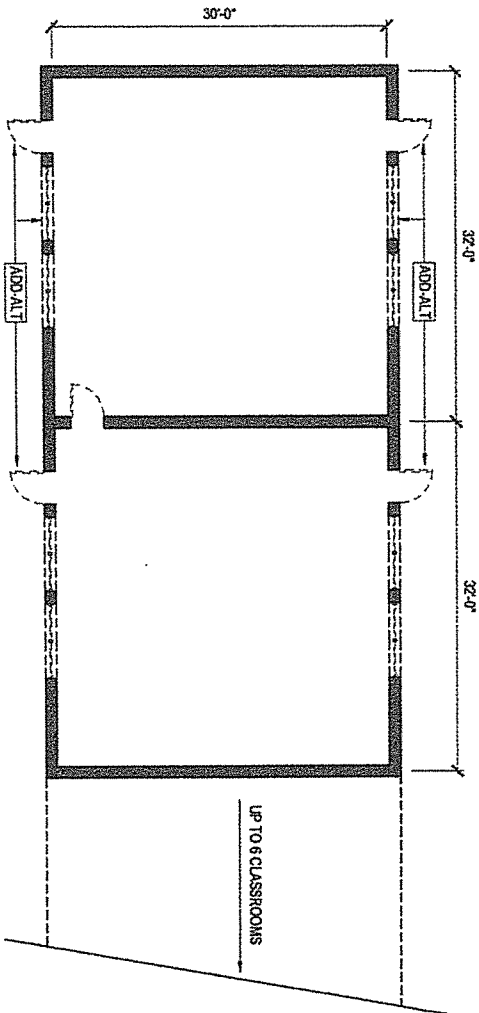
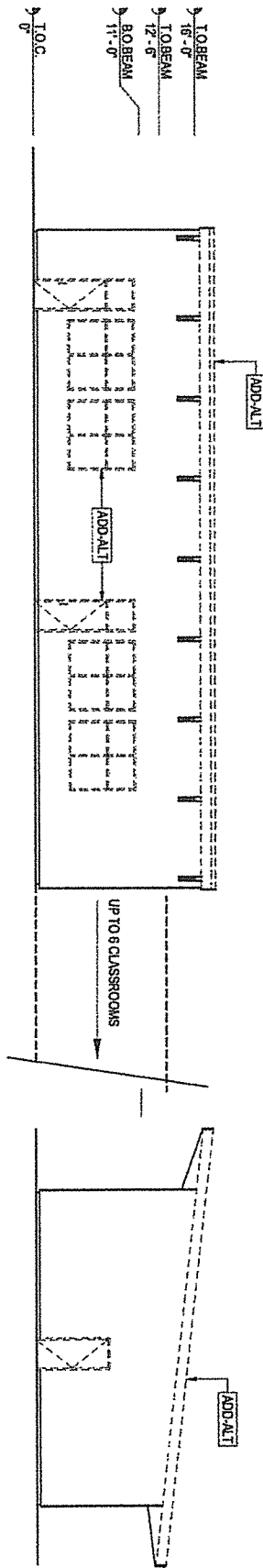
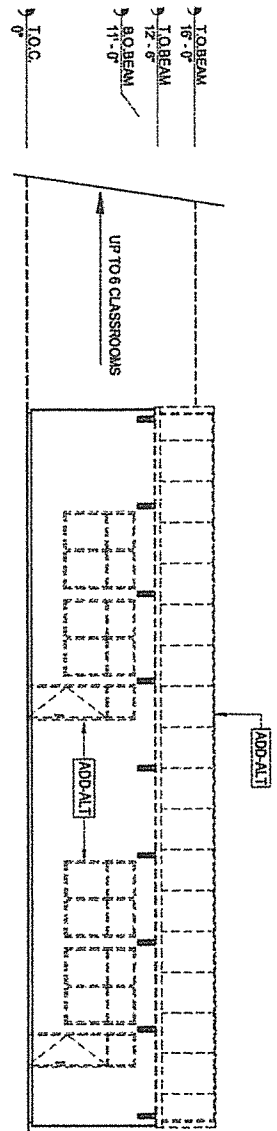




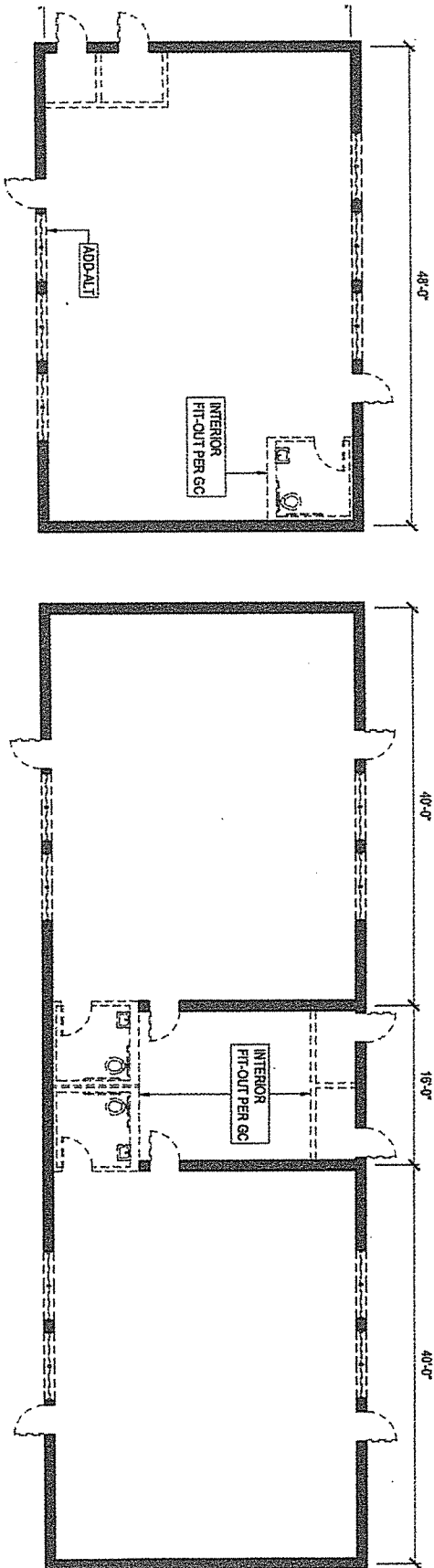
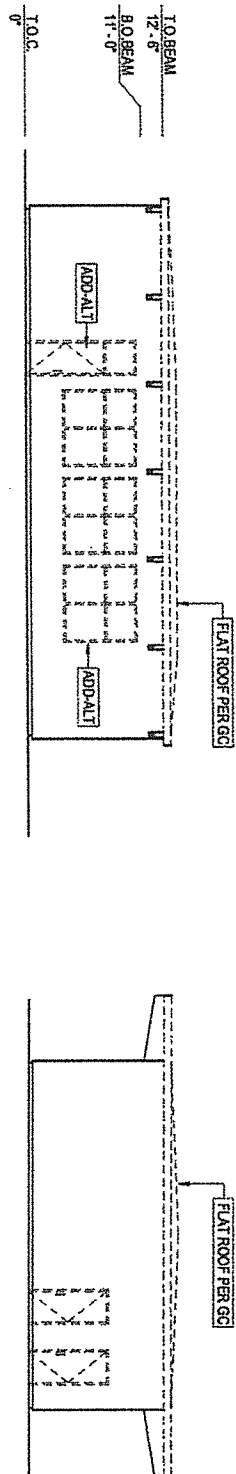
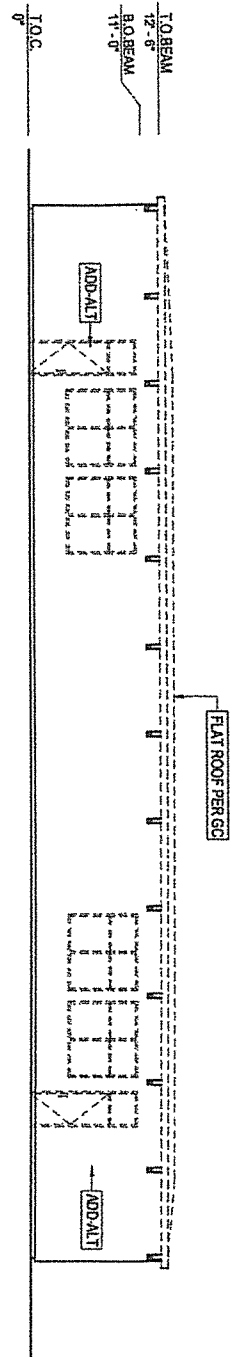
2-STORY DOUBLE LOADED, 12 CLASSROOMS



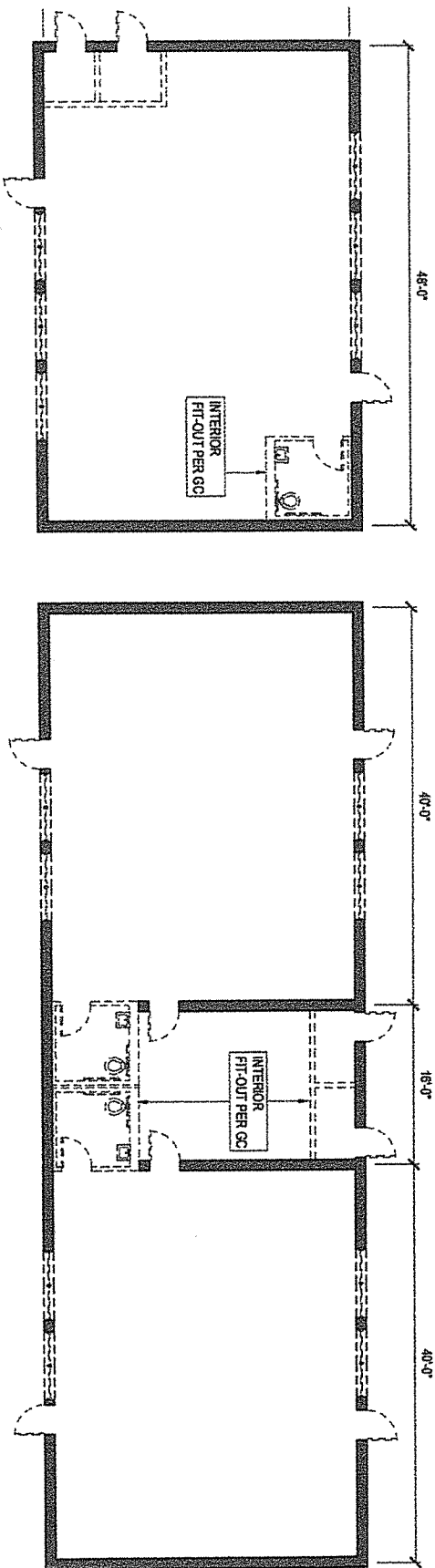
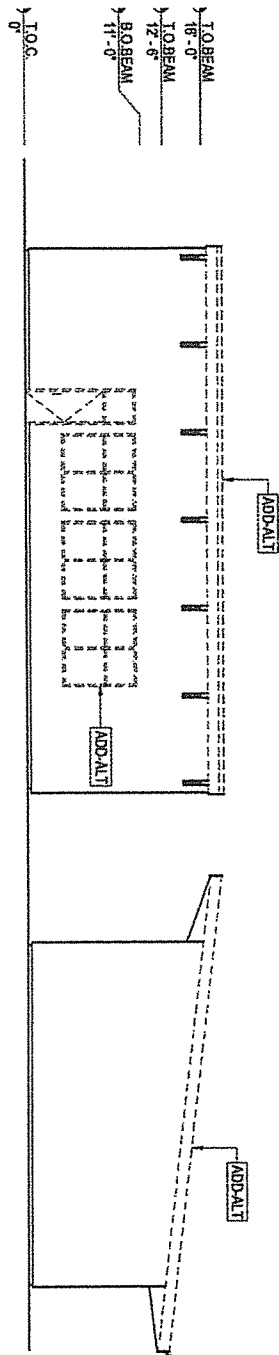
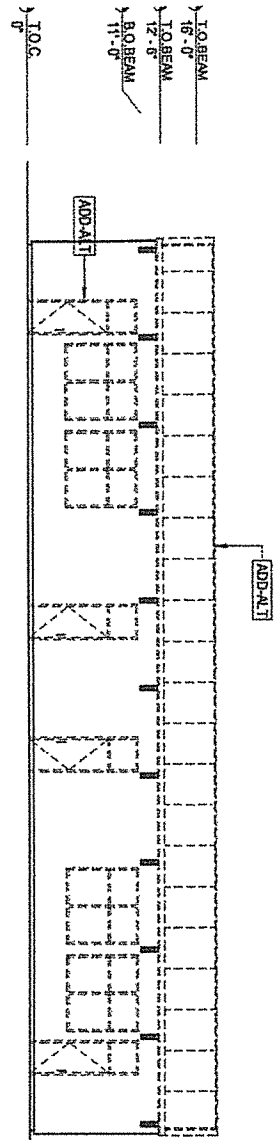
1-STORY, SINGLE LOADED 2-6 CLASSROOMS



1-STORY, SINGLE LOADED 2-6 CLASSROOMS

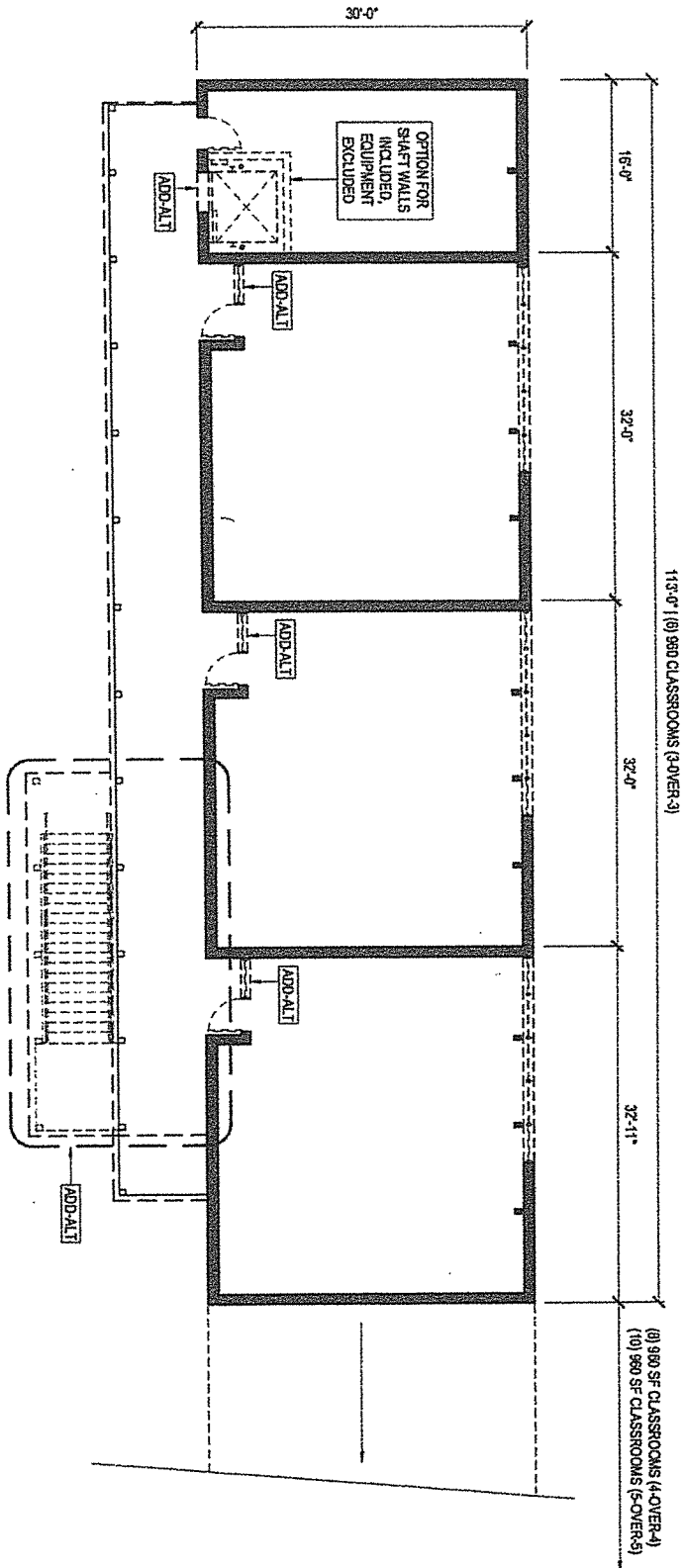


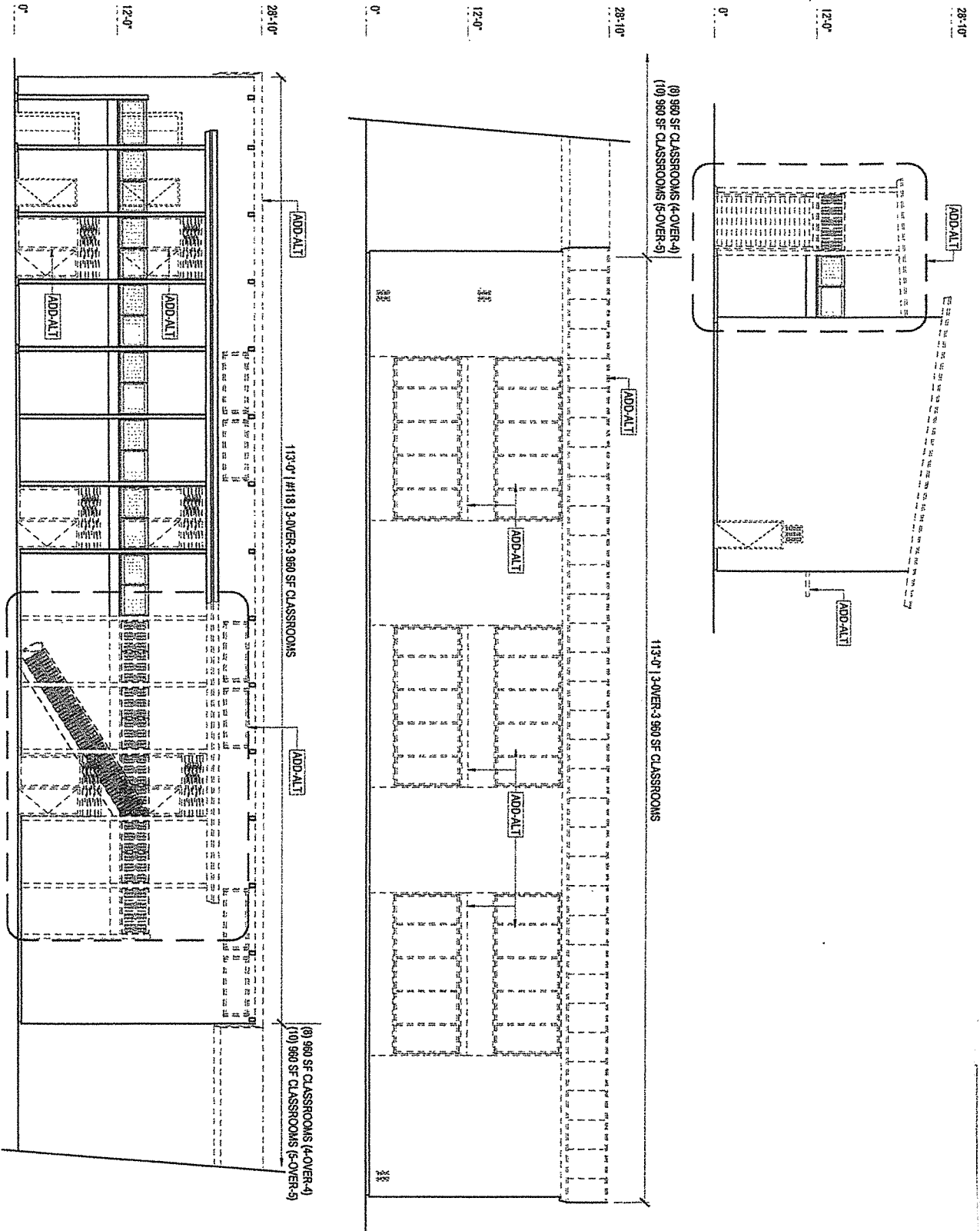
1-STORY, SINGLE LOADED 1-2 LAB(S) OR KINDER(S)



1-STORY, SINGLE LOADED 1-2 LAB(S) OR KINDER(S)

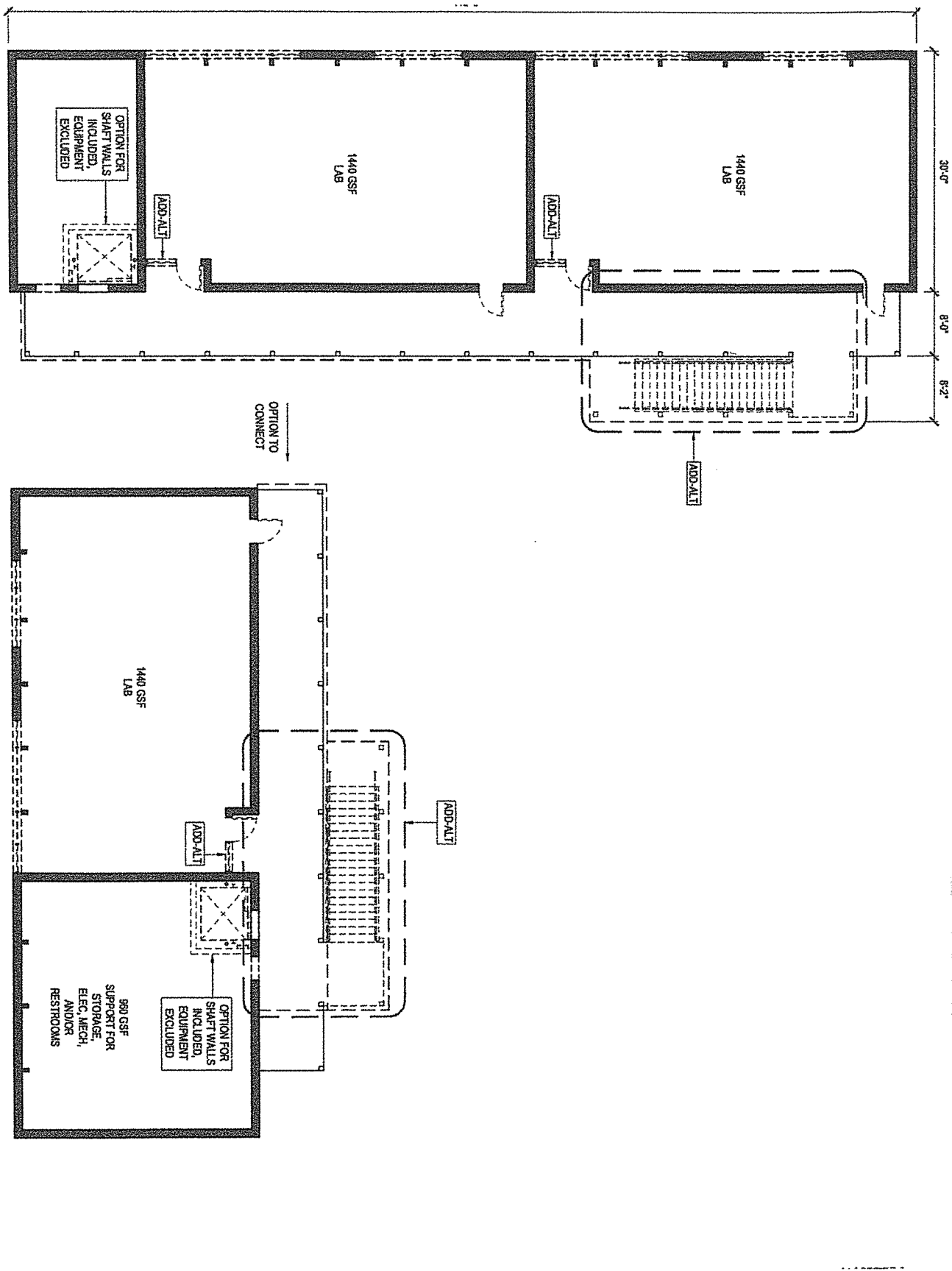
2-STORY, SINGLE LOADED 6,8 OR 10 CLASSROOMS

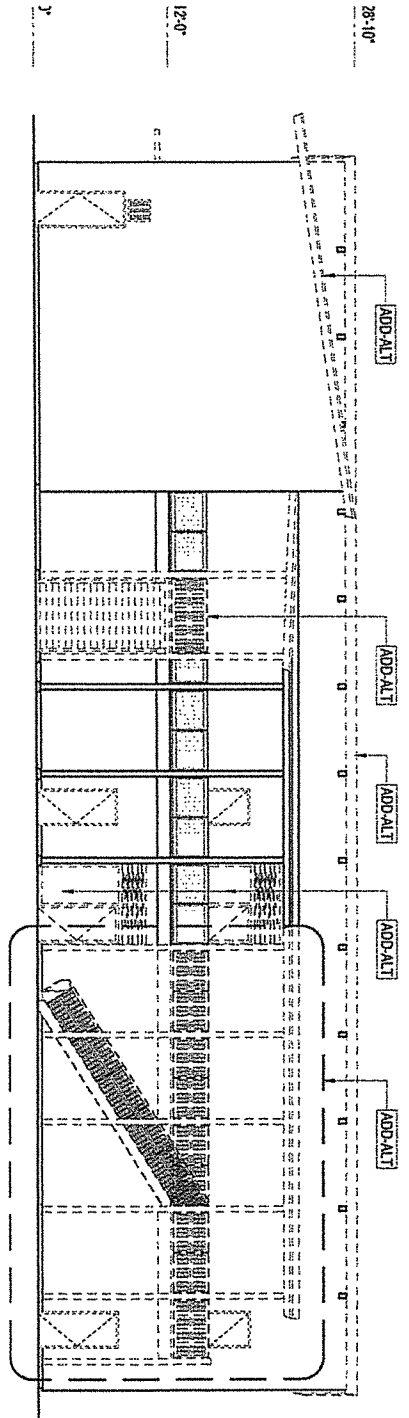
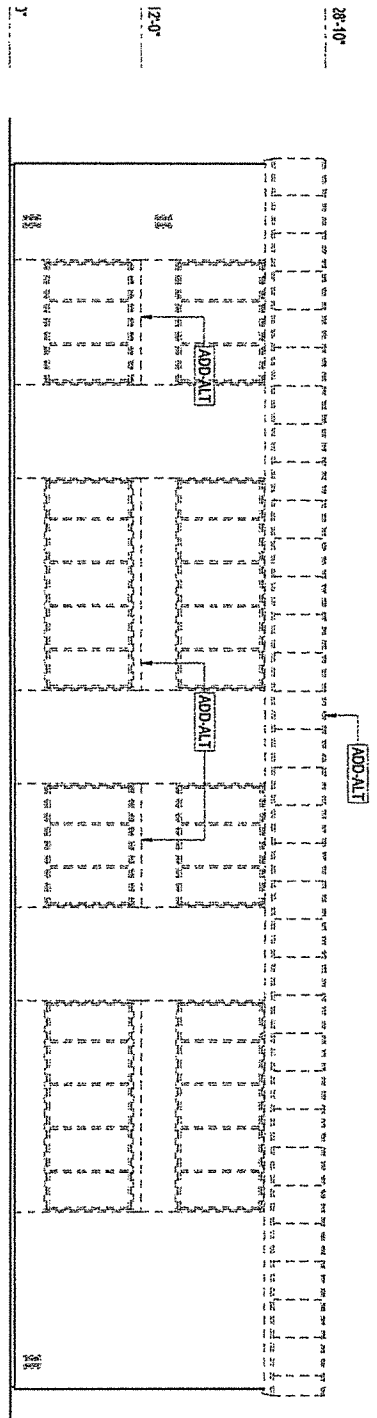
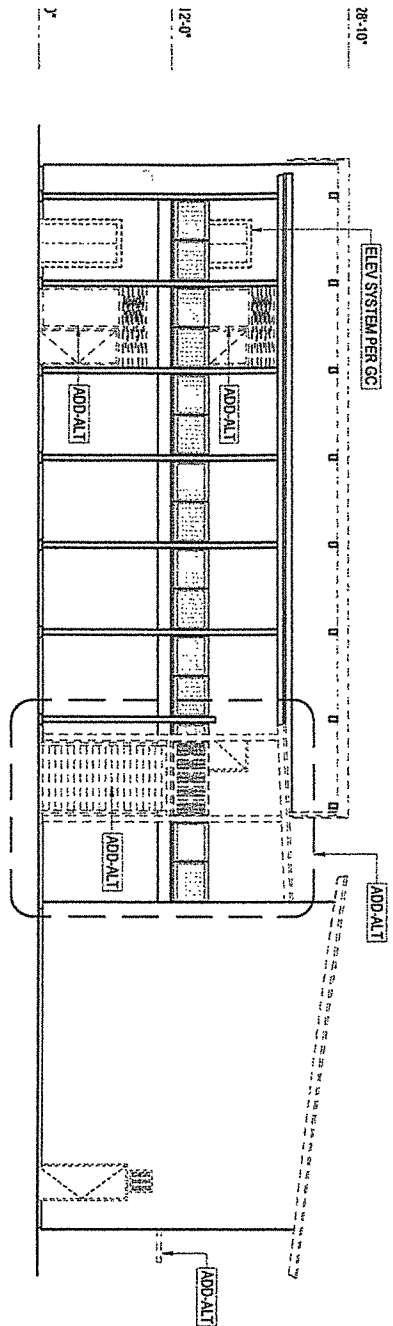




2-STORY, SINGLE LOADED 6,8 OR 10 CLASSROOMS

2-STORY, SINGLE LOADED LABS AND PREPS



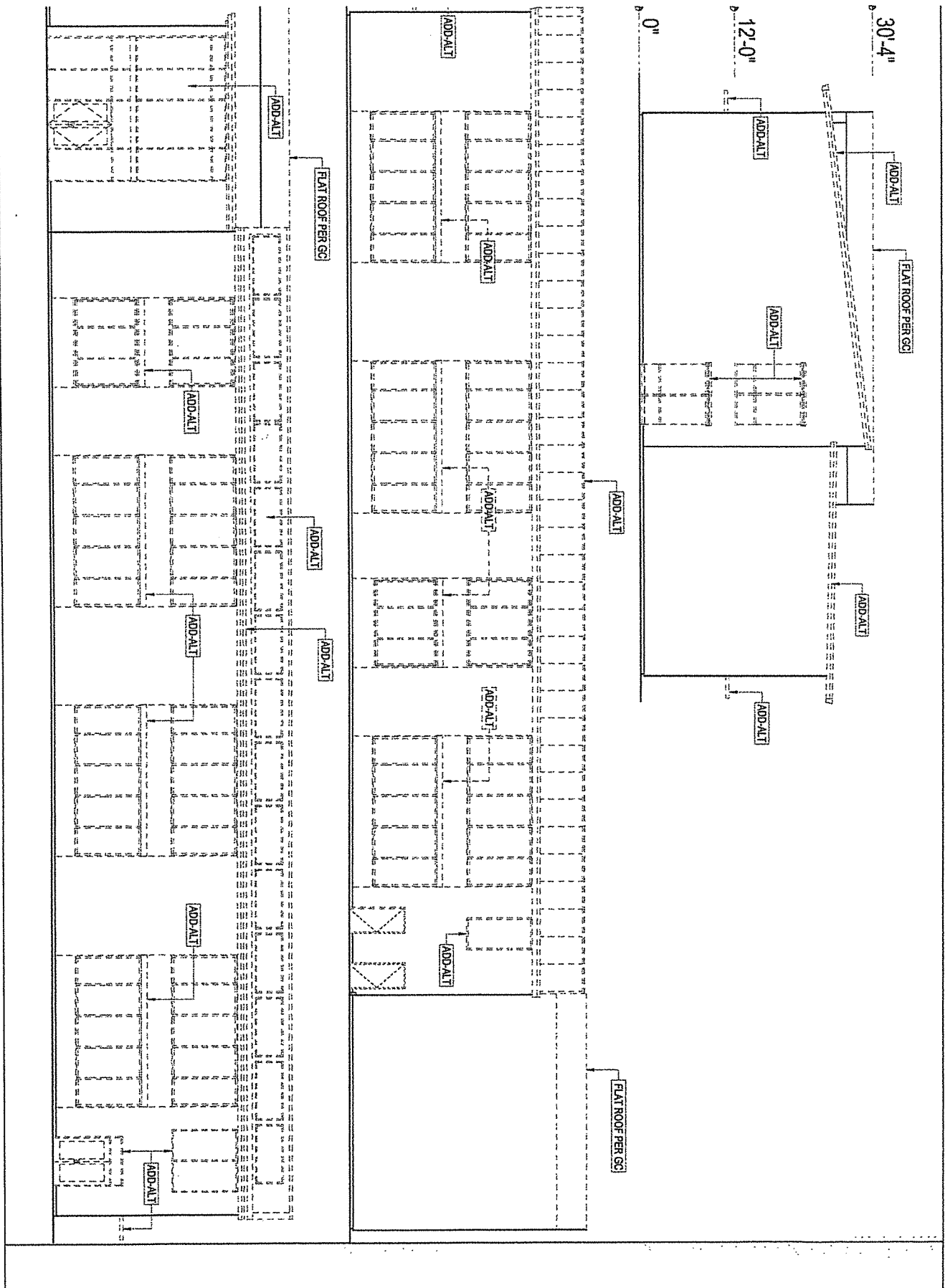


2-STORY, SINGLE LOADED LABS AND PREPS

Architectural floor plan of a building. The plan shows a long, narrow layout with several rooms and corridors. Key features include:

- Top Section:** A series of rooms including a **MECH/ELEC** (Mechanical/Electrical) room, a **DATA** room, and a **FIRE RISER** area. A note **SHAFT WALLS INCLUDED, EQUIPMENT EXCLUDED** points to a specific area.
- Classrooms:** Four classrooms are shown, each labeled with its area: **1440 GSF CLASSROOM**, **960 GSF CLASSROOM**, **960 GSF CLASSROOM**, and **960 GSF CLASSROOM**.
- Corridors and Stairs:** A central corridor runs through the middle. A **DOUBLE HEIGHT LOBBY** is located near the top left. Stairs are shown at both ends of the building.
- Dimensions:** The overall width is **72'-0"** and the overall length is **156'-0"**.
- Labels:** Several **ADD-ALT** (Add Alternative) labels are placed throughout the plan, indicating potential modifications.

2-STORY, DOUBLE LOADED 8 CLASSROOMS + 4 LABS + 1 PREP



156'-0"

ADD-ALT

980 GSF CLASSROOM

980 GSF CLASSROOM

1440 GSF CLASSROOM

1440 GSF CLASSROOM

DATA

MECH/ELEC

FIRE RISER

DOUBLE HEIGHT LOBBY

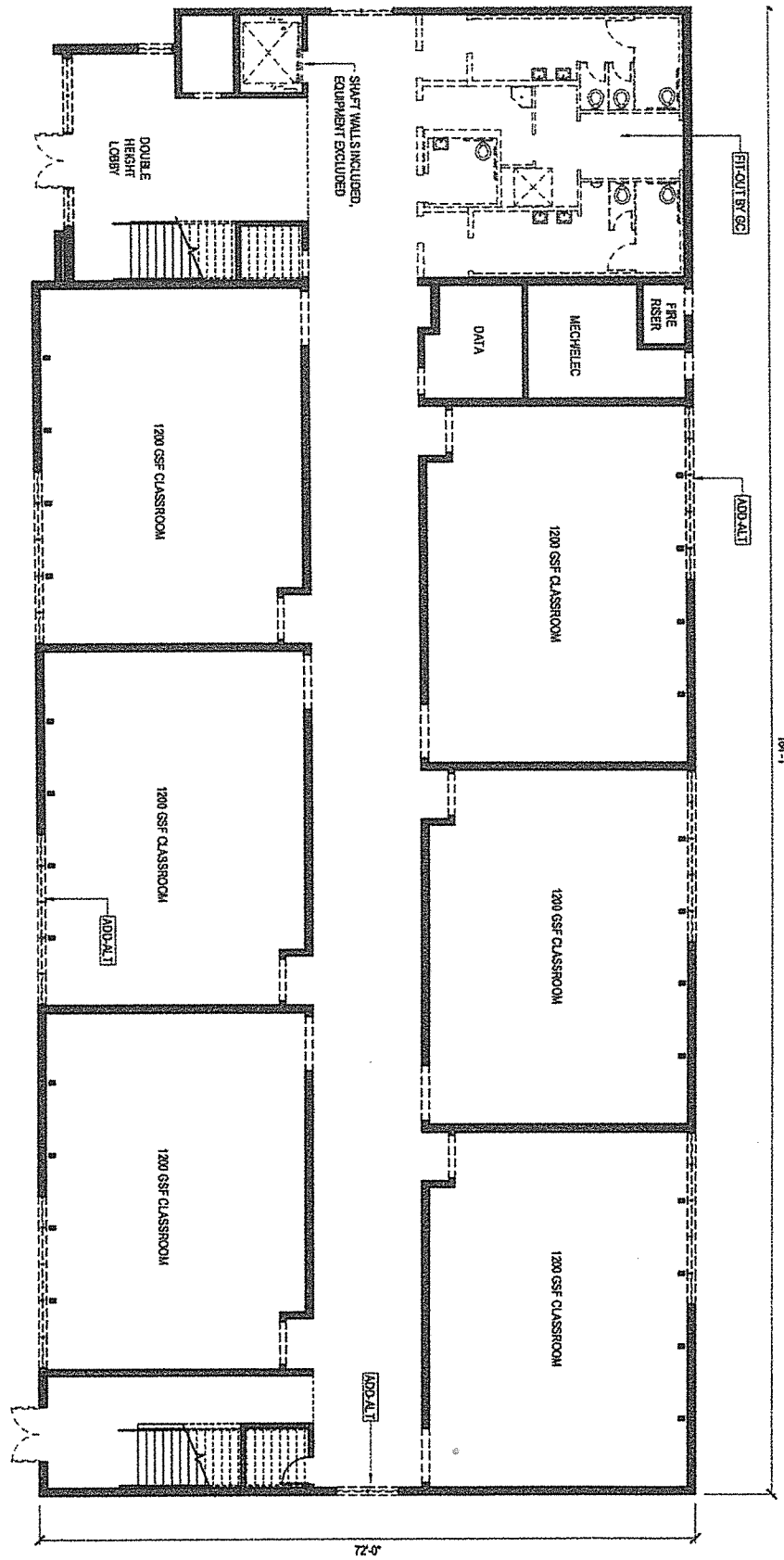
ADD-ALT

ADD-ALT

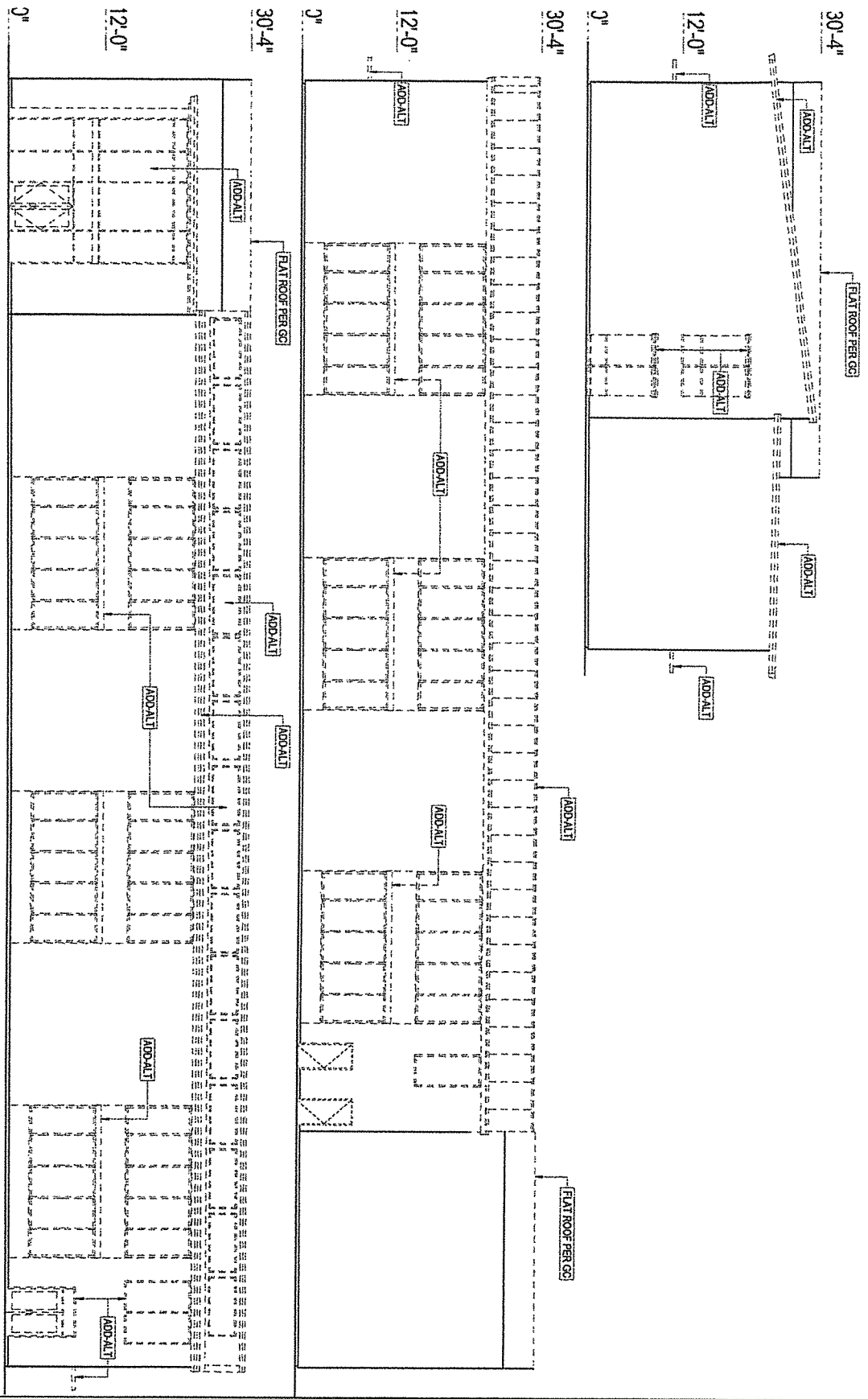
ADD-ALT

SHAFT WALLS INCLUDED, EQUIPMENT EXCLUDED

FIT-OUT BY GC

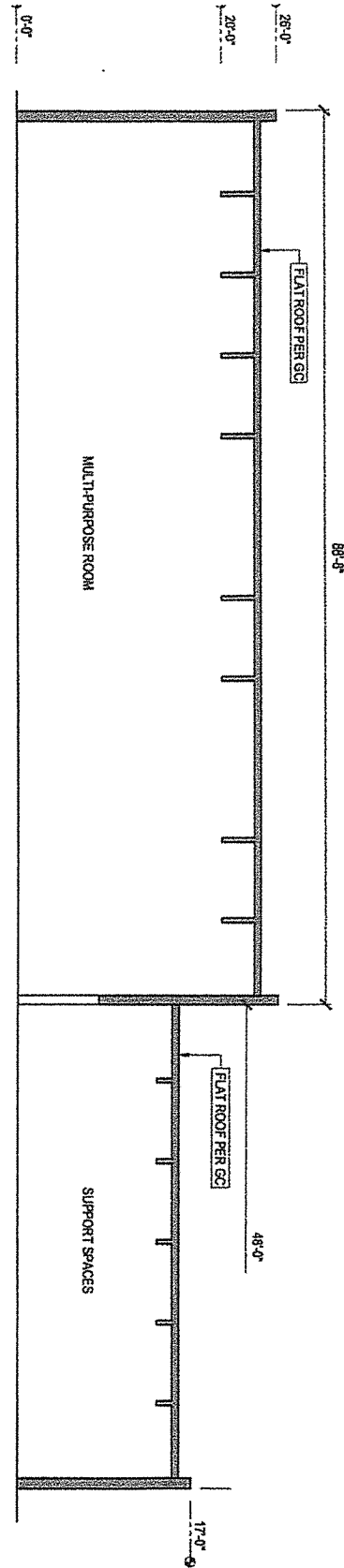
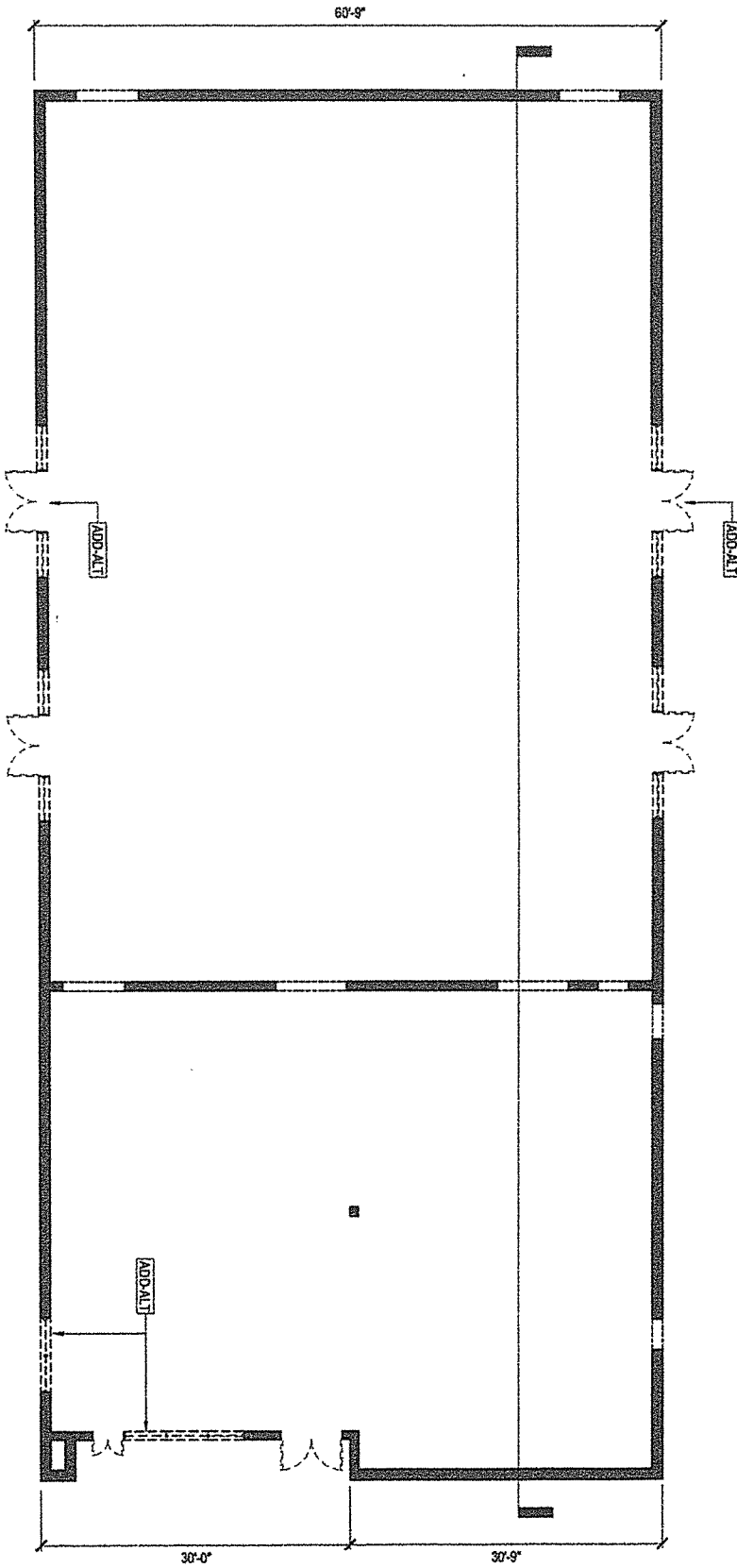


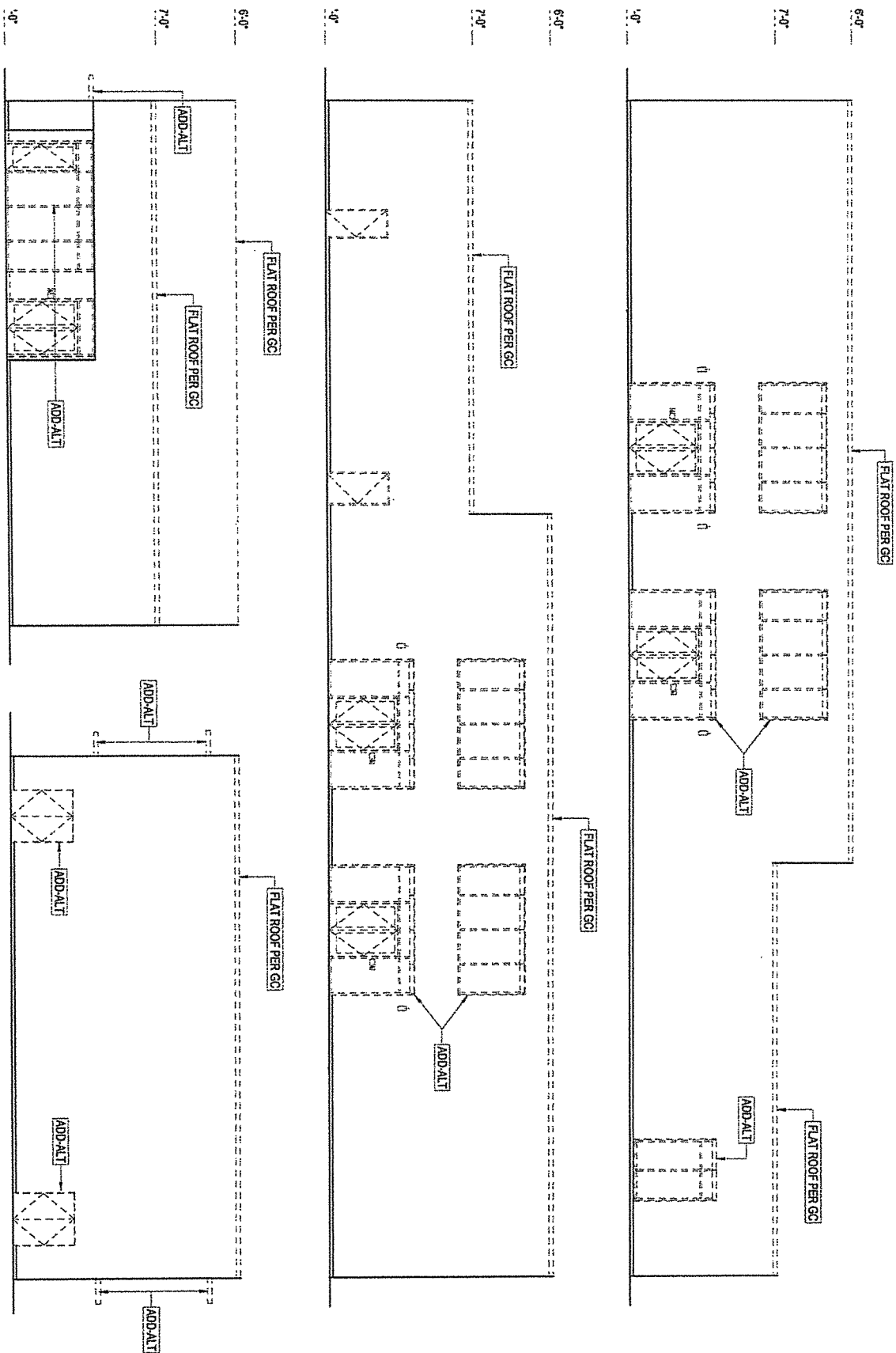
2-STORY, DOUBLE LOADED 6 CLASSROOMS + 4 LABS + 3 PREPS



2-STORY, DOUBLE LOADED 6 CLASSROOMS + 4 LABS + 3 PREPS

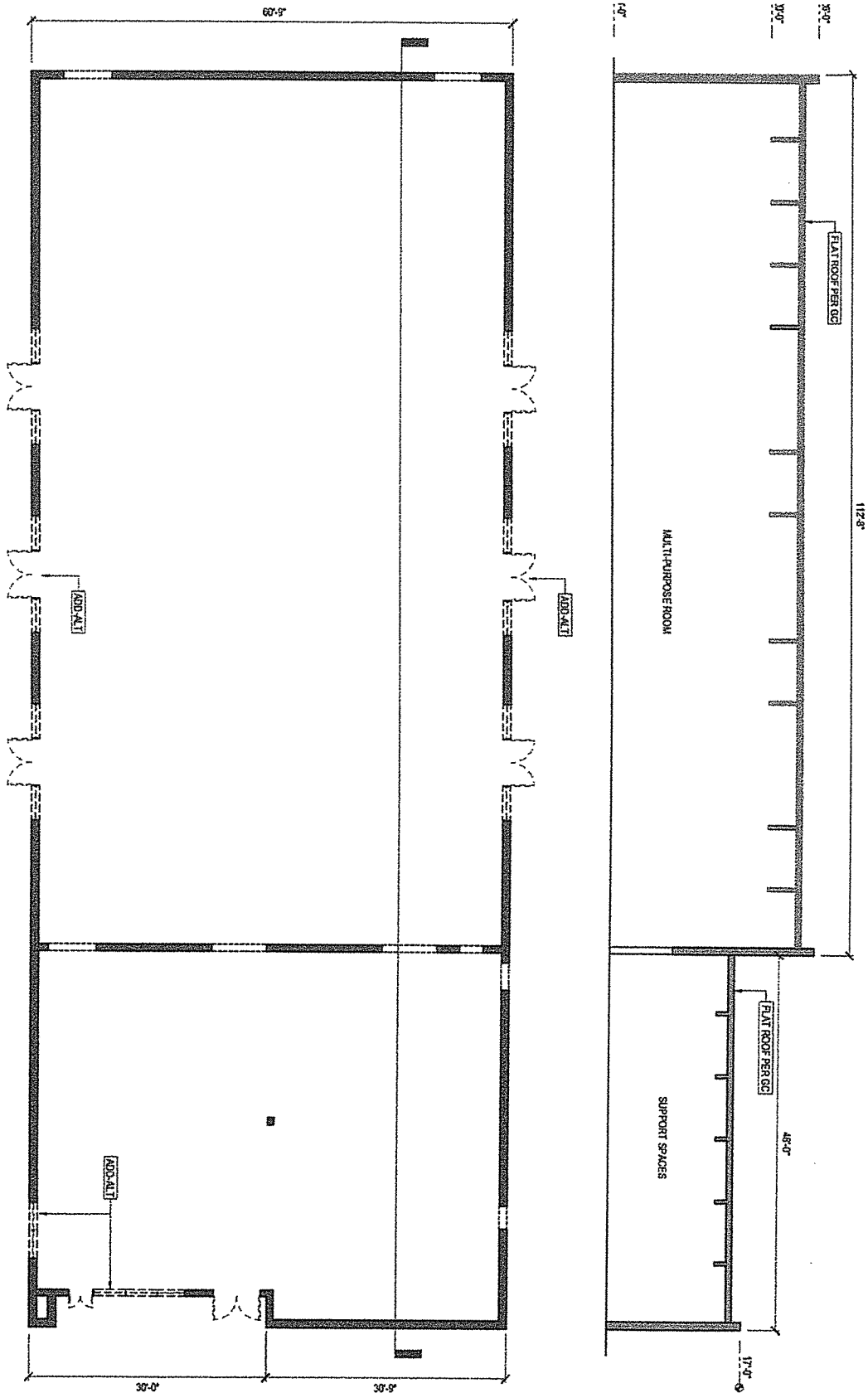
MULTI-PURPOSE BUILDING SUPERSTRUCTURE 8200 SF



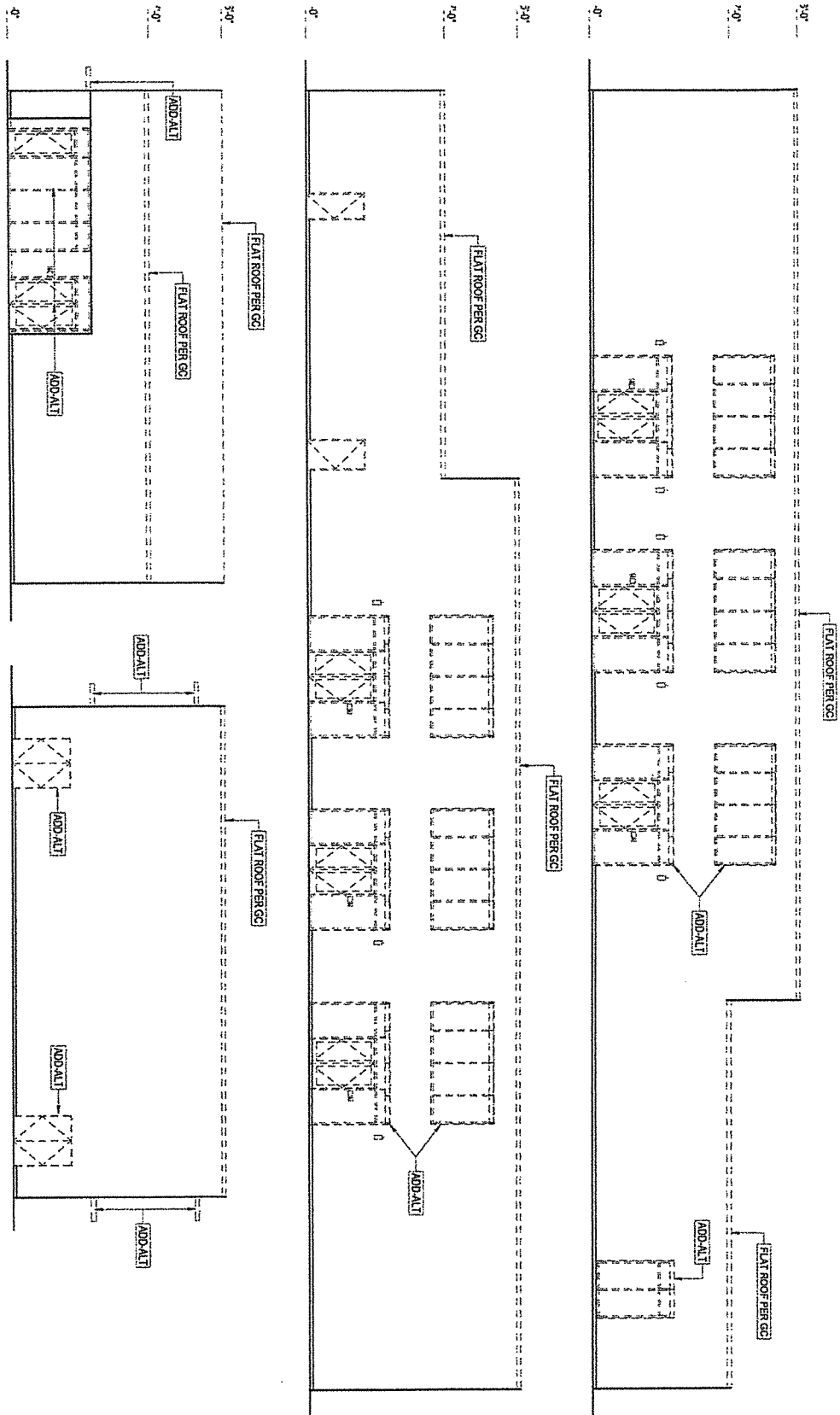


MULTI-PURPOSE BUILDING SUPERSTRUCTURE 8200 SF

MULTI-PURPOSE BUILDING SUPERSTRUCTURE 10,200 SF



MULTI-PURPOSE BUILDING SUPERSTRUCTURE 10,200 SF



527

124
8-07060-01

523
114
8-07056-01

519

104
8-07053-01

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The image displays four architectural window models, each with a front elevation and a side elevation. The models are labeled 528, 531, 532, and 533.

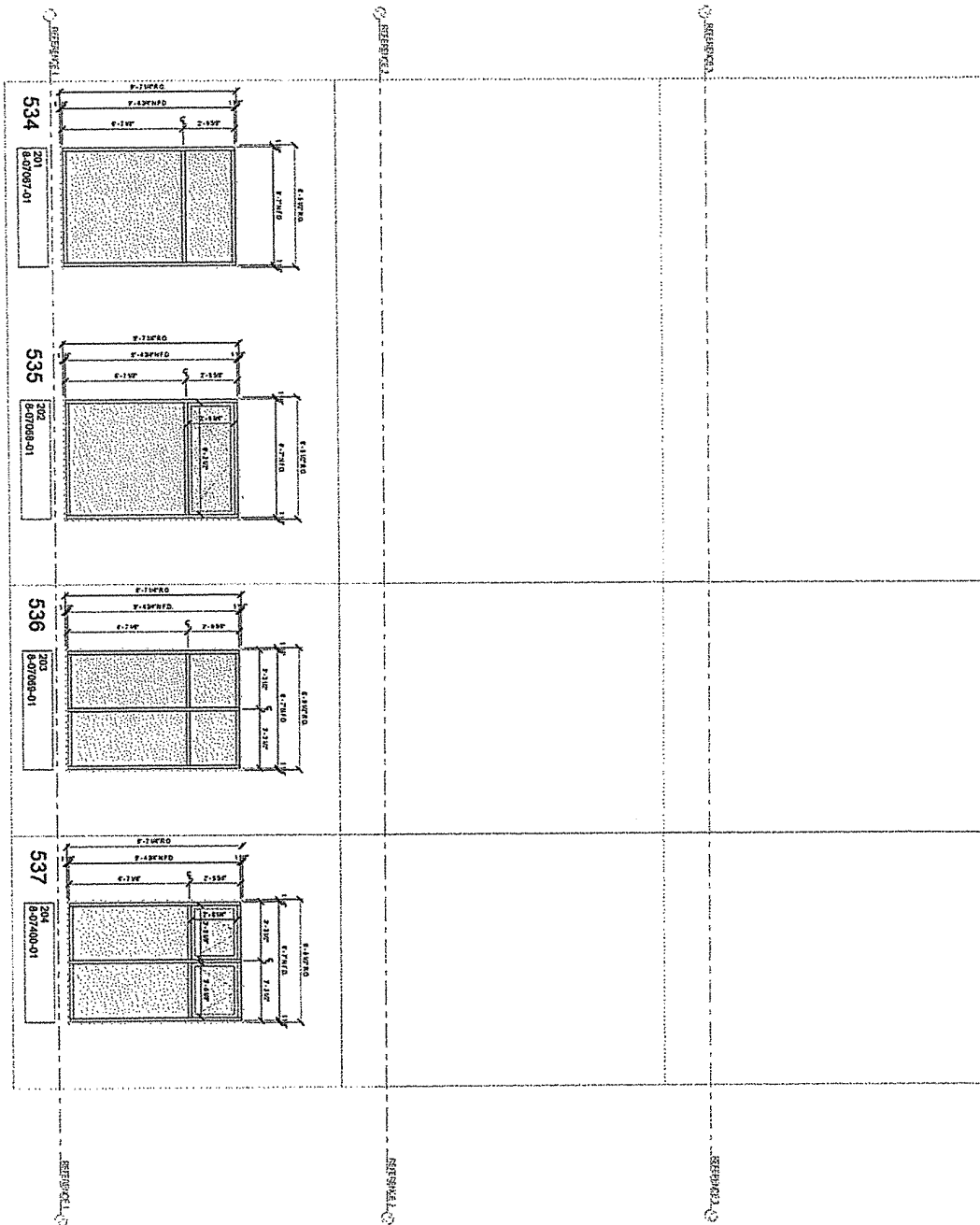
Model 528: The front elevation shows a window with a top section and two side sections. Dimensions include 10'-11 1/2" HD, 7'-13 1/2" W, 7'-9 1/2" W, 1 1/4" depth, 7'-10 1/2" HD, 7'-11 1/2" W, and 1 1/4" depth. The side elevation shows a 10'-11 1/2" HD and 7'-13 1/2" W. The material specification is: HIGH STRENGTH POLYCARBONATE INSULATED GLASS UNIT (IGU) WITH LOW E COATING, ALUMINUM FRAME, AND ALUMINUM FINISH.

Model 531: The front elevation shows a window with a top section and two side sections. Dimensions include 10'-11 1/2" HD, 7'-13 1/2" W, 7'-9 1/2" W, 1 1/4" depth, 7'-10 1/2" HD, 7'-11 1/2" W, and 1 1/4" depth. The side elevation shows a 10'-11 1/2" HD and 7'-13 1/2" W. The material specification is: HIGH STRENGTH POLYCARBONATE INSULATED GLASS UNIT (IGU) WITH LOW E COATING, ALUMINUM FRAME, AND ALUMINUM FINISH.

Model 532: The front elevation shows a window with a top section and two side sections. Dimensions include 10'-11 1/2" HD, 7'-13 1/2" W, 7'-9 1/2" W, 1 1/4" depth, 7'-10 1/2" HD, 7'-11 1/2" W, and 1 1/4" depth. The side elevation shows a 10'-11 1/2" HD and 7'-13 1/2" W. The material specification is: HIGH STRENGTH POLYCARBONATE INSULATED GLASS UNIT (IGU) WITH LOW E COATING, ALUMINUM FRAME, AND ALUMINUM FINISH.

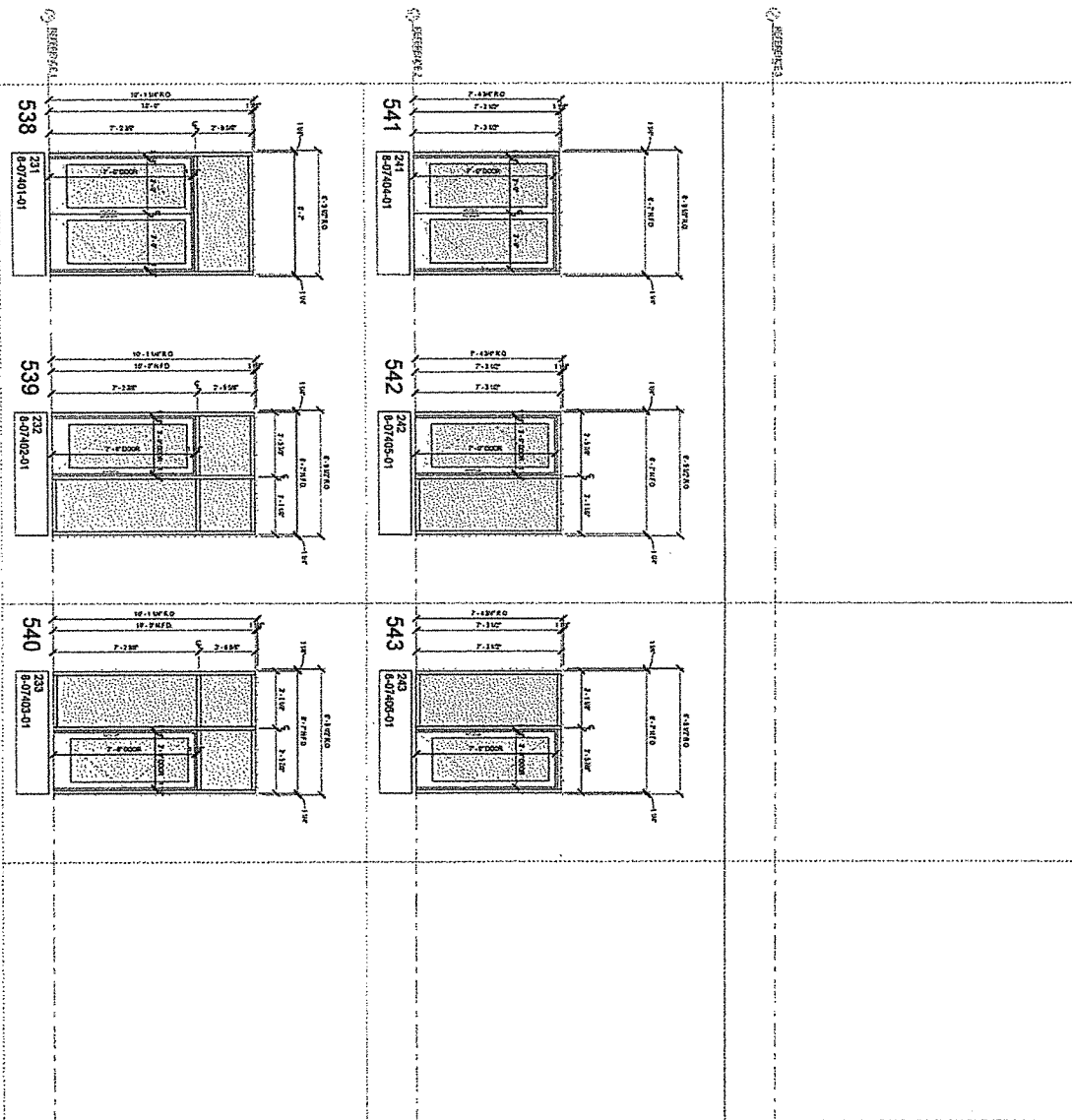
Model 533: The front elevation shows a window with a top section and two side sections. Dimensions include 10'-11 1/2" HD, 7'-13 1/2" W, 7'-9 1/2" W, 1 1/4" depth, 7'-10 1/2" HD, 7'-11 1/2" W, and 1 1/4" depth. The side elevation shows a 10'-11 1/2" HD and 7'-13 1/2" W. The material specification is: HIGH STRENGTH POLYCARBONATE INSULATED GLASS UNIT (IGU) WITH LOW E COATING, ALUMINUM FRAME, AND ALUMINUM FINISH.

WINDOWS FOR WALL PANEL TYPE F
END OF CORRIDOR WALLS (8' NOMINAL WIDTH)



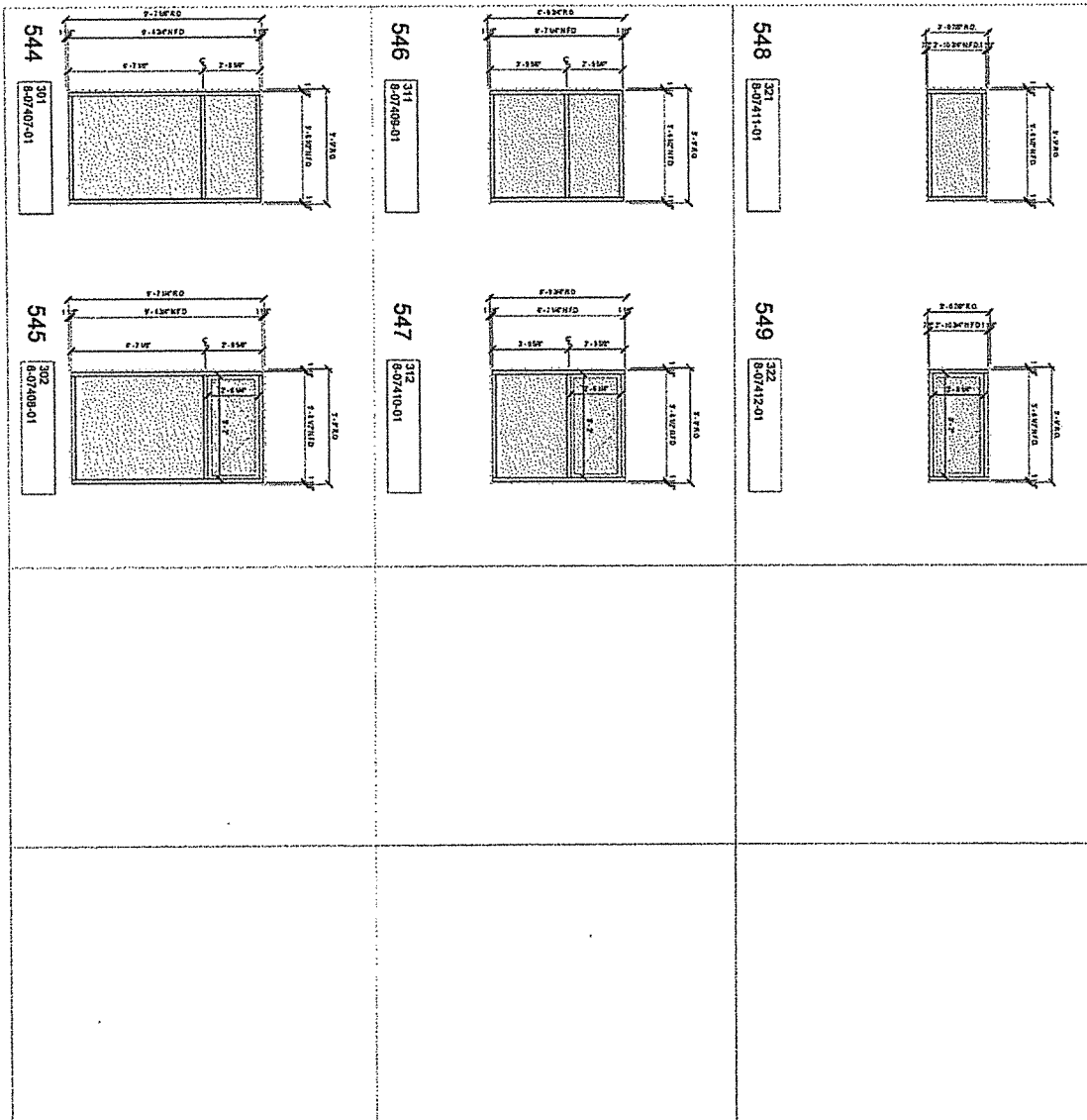
① SEVENING WINDOWS (23.12.19)

DOORS FOR WALL PANEL TYPE F
END OF CORRIDOR WALLS (8' NOMINAL WIDTH / STANDARD SIZED DOORS)



① ELEVATIONS, DOORS (A2.1.12 RD)
58-119

WINDOWS FOR WALL PANEL TYPE B
CLASSROOM END WALLS (6' NOMINAL WIDTH)



① ELEVATIONS - WINDOW & S. RO.
3/8" = 1'-0"

550
8-07-13-01

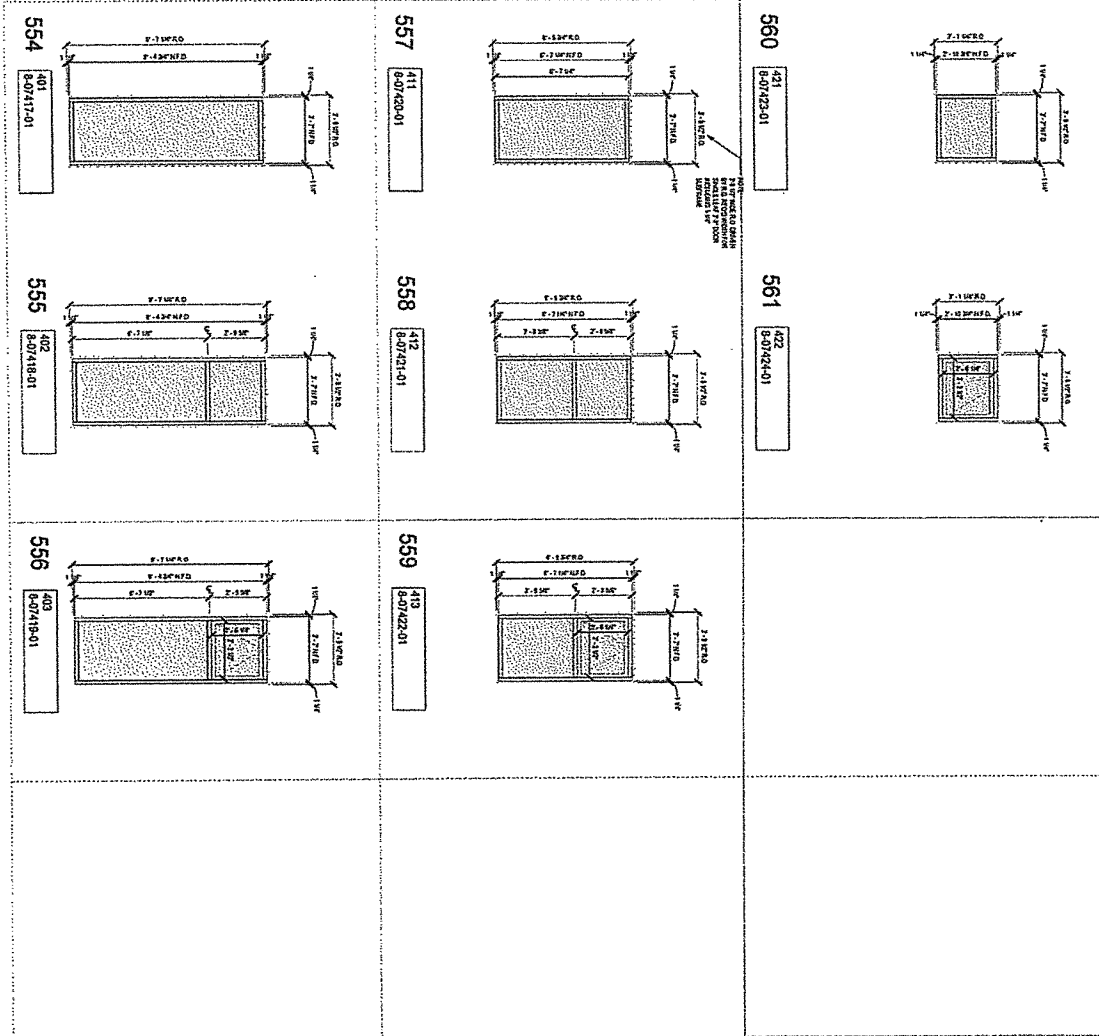
551
8-07-14-01

552
8-07-15-01

553
8-07-16-01

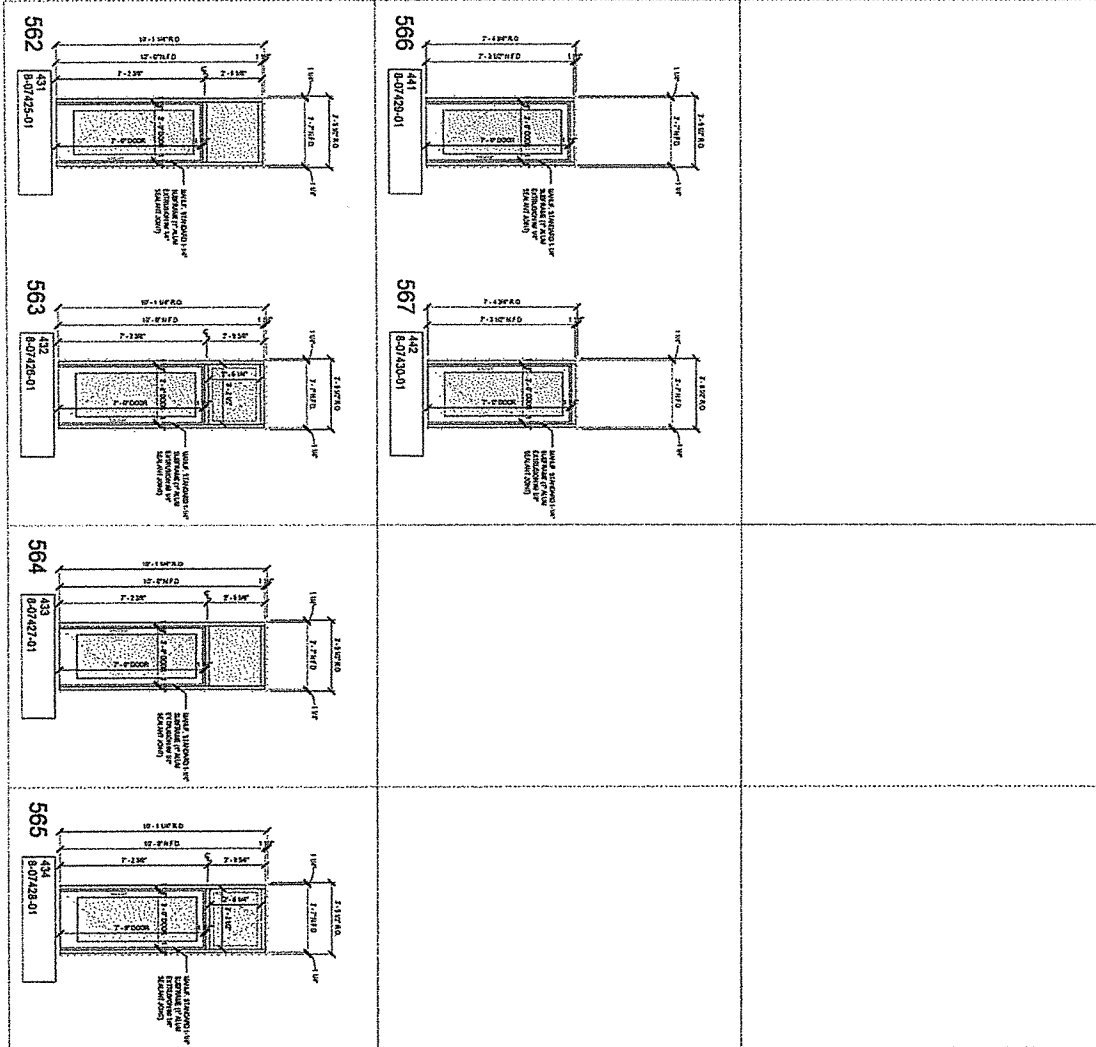
9 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044

WINDOWS
STANDARD 1 BAY WIDE UNITS (4' NOMINAL WIDTH)



0. ELEVATIONS - WINDOWS OF 3.1/2" DIA.
3/8" = 1"

DOORS
STANDARD 1 BAY WIDE UNITS (4' NOMINAL WIDTH)



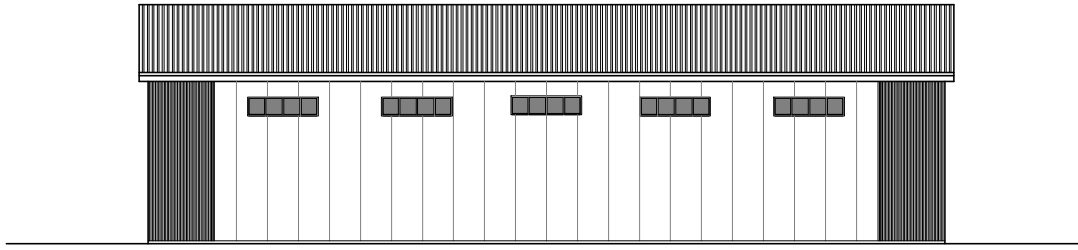
① ELEVATIONS, DOORS (7.2.12) RD
 3/8" = 1'-0"

WINDOWS
NARROW 1 BAY WIDE UNITS (FOR USE ON CLASSROOM ELEVATIONS USING 48"W HEAT
PUMP UNITS)

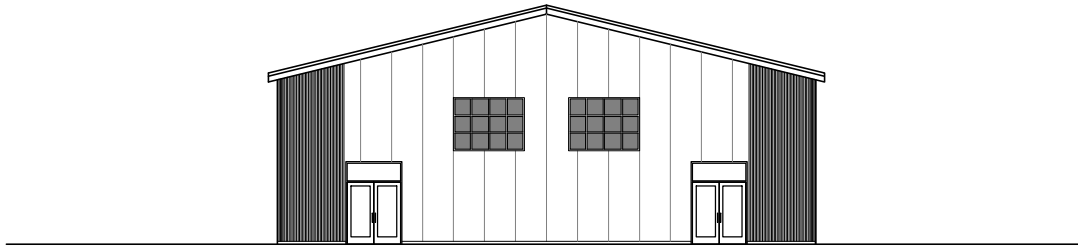
<p>574</p> <p>521 8-07437-01</p>	<p>575</p> <p>522 8-07438-01</p>	
<p>571</p> <p>511 8-07434-01</p>	<p>572</p> <p>512 8-07435-01</p>	<p>573</p> <p>513 8-07436-01</p>
<p>568</p> <p>501 8-07431-01</p>	<p>569</p> <p>502 8-07432-01</p>	<p>570</p> <p>503 8-07433-01</p>

① ELEVATIONS - WINDOWS (27" RD)
 35" x 14"

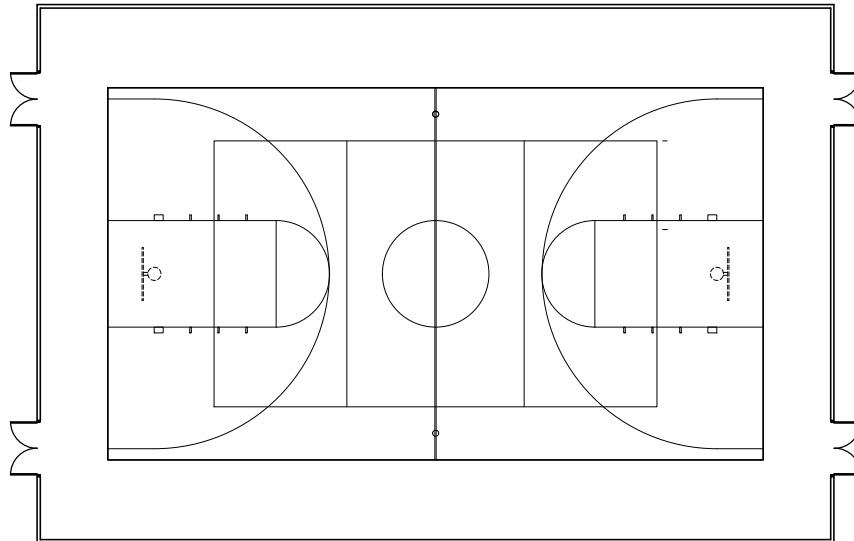
FLOOR PLANS



TYPICAL SIDE ELEVATION
SCALE: 1"=20'



TYPICAL FRONT ELEVATION
SCALE: 1"=20'



FLOOR PLAN
SCALE: 1"=20'

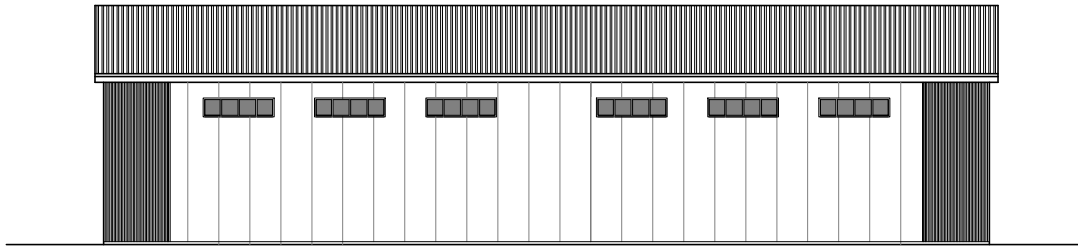
NOTE:
BASKETBALL COURT STRIPING ARE FOR ILLUSTRATION
PURPOSES ONLY AND NOT PART OF THE BUILDING

60' x 90'

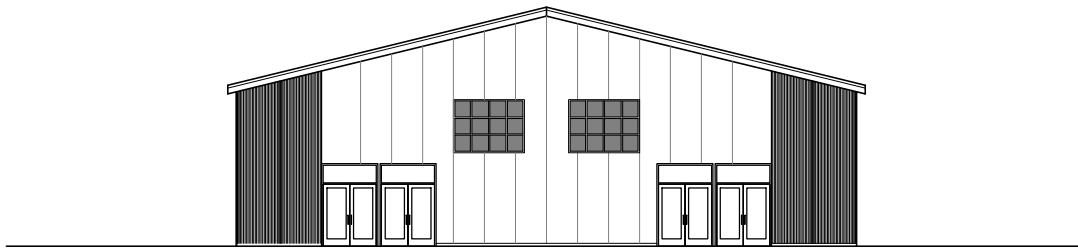
(5,400 S.F.)

JR. HIGH SCHOOL REGULATION

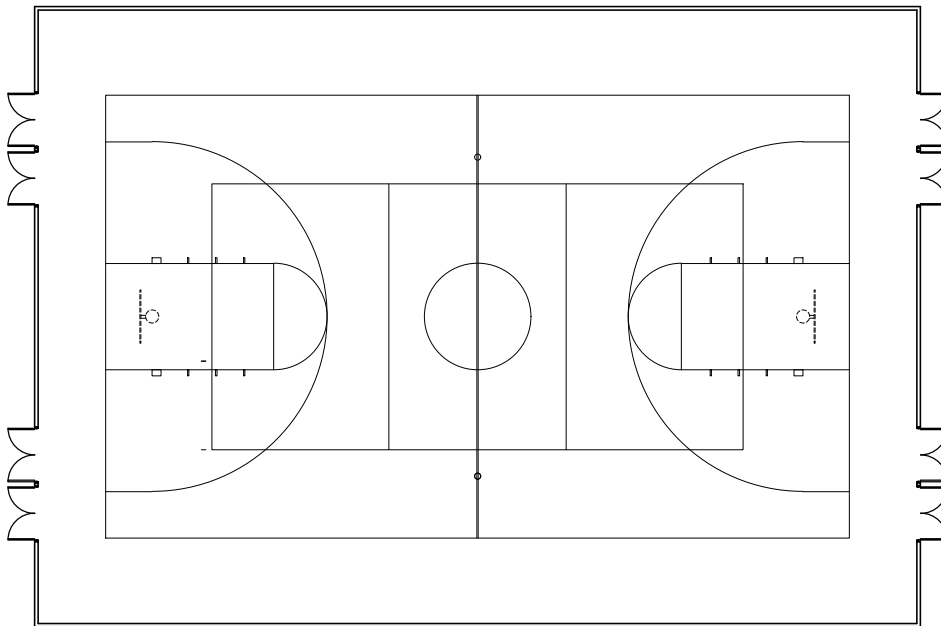
FLOOR PLANS



TYPICAL SIDE ELEVATION
SCALE: 1"=20'



TYPICAL FRONT ELEVATION
SCALE: 1"=20'

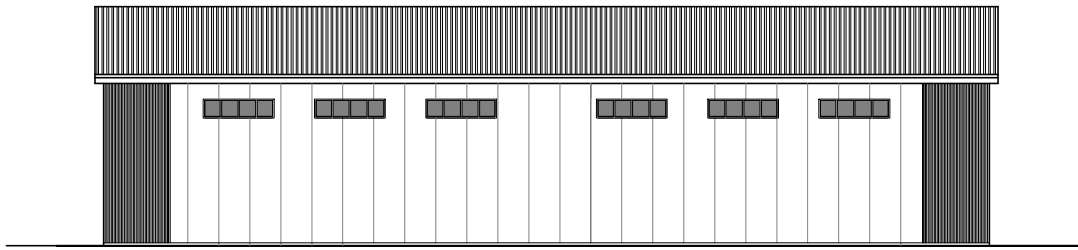


FLOOR PLAN
SCALE: 1"=20'

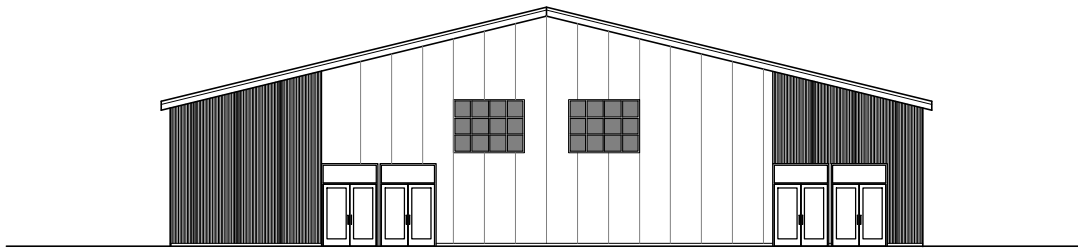
NOTE:
BASKETBALL COURT STRIPING ARE FOR ILLUSTRATION
PURPOSES ONLY AND NOT PART OF THE BUILDING

70' x 100' (7,000 S.F.)

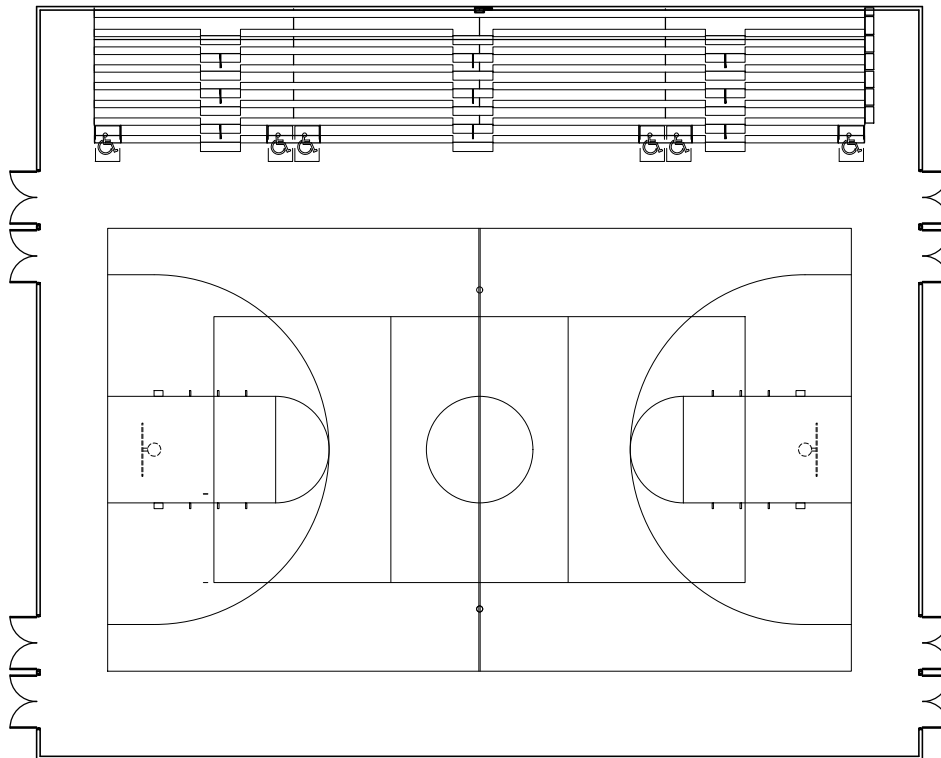
FLOOR PLANS



TYPICAL SIDE ELEVATION
SCALE: 1"=20'



TYPICAL FRONT ELEVATION
SCALE: 1"=20'



FLOOR PLAN
SCALE: 1"=20'

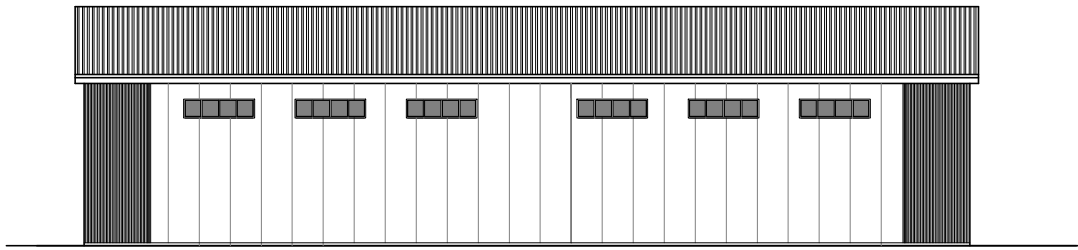
NOTE:
BASKETBALL COURT STRIPING AND BLEACHER ARE FOR
ILLUSTRATION PURPOSES ONLY AND NOT PART OF THE BUILDING

85' x 100'

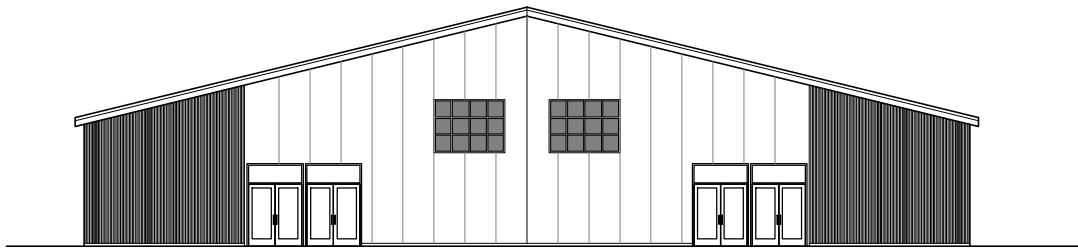
(8,500 S.F.)

HIGH SCHOOL REGULATION

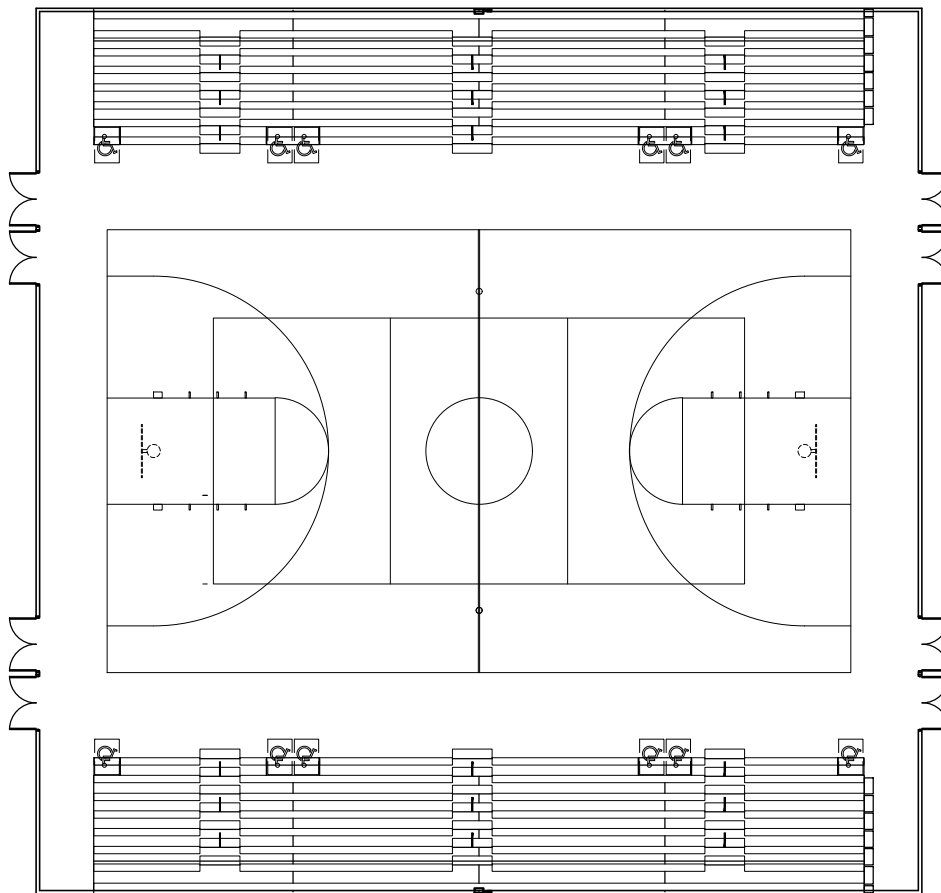
FLOOR PLANS



TYPICAL SIDE ELEVATION
SCALE: 1"=20'



TYPICAL FRONT ELEVATION
SCALE: 1"=20'

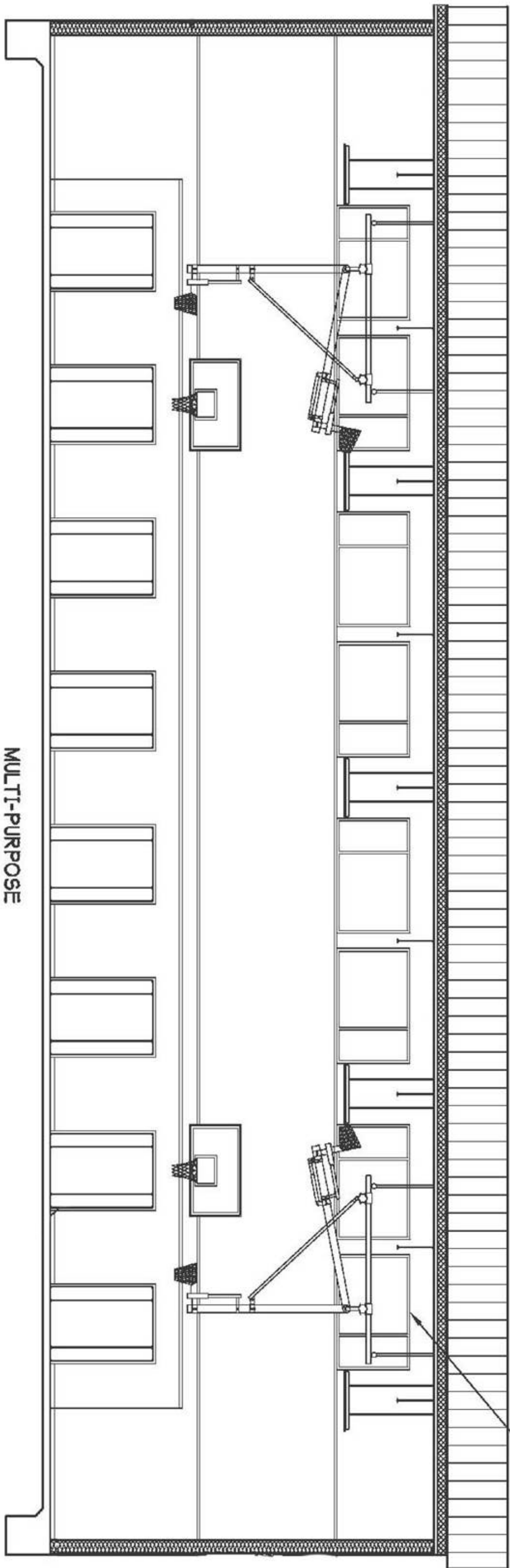


FLOOR PLAN
SCALE: 1"=20'

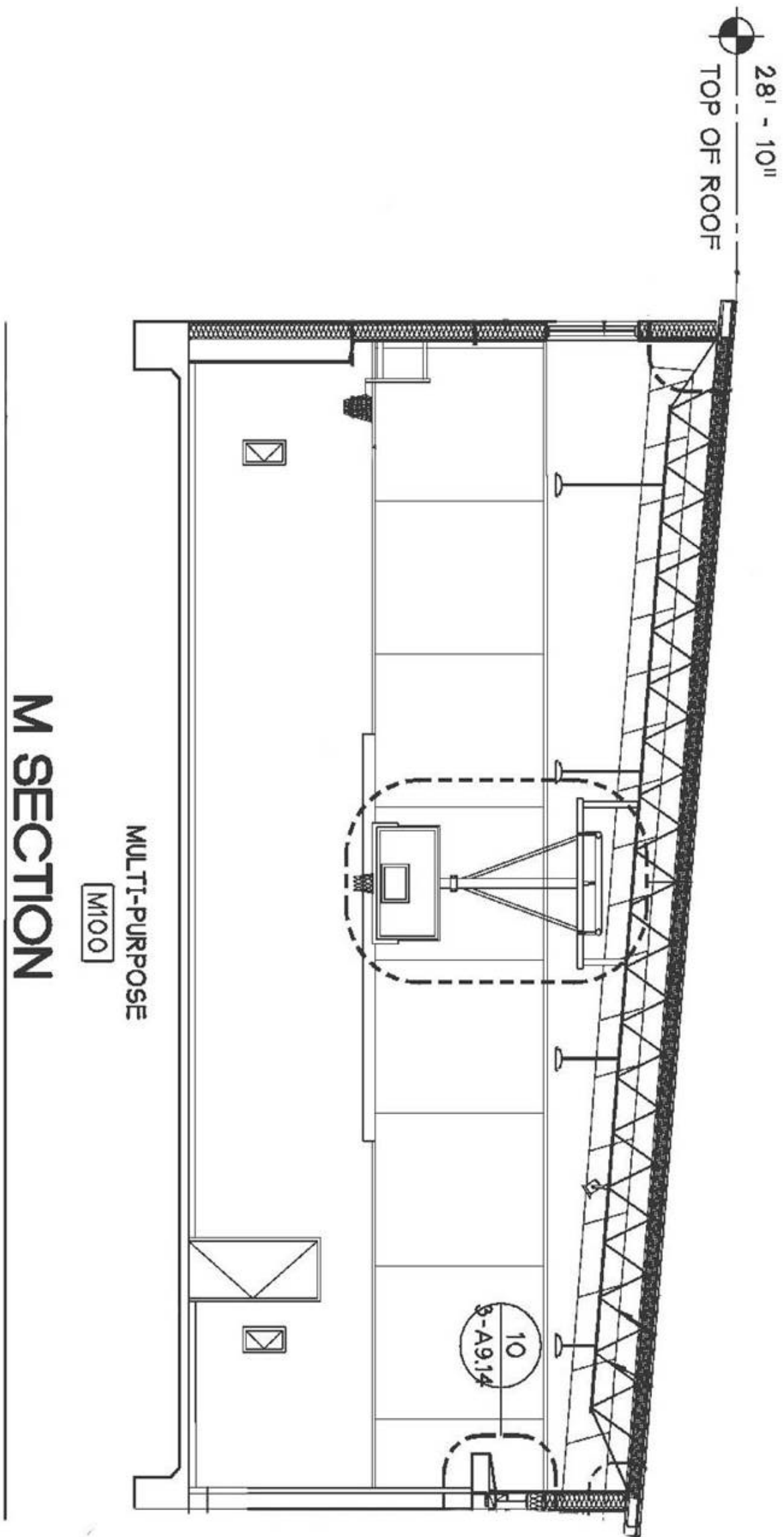
100' x 100' (10,000 S.F.)

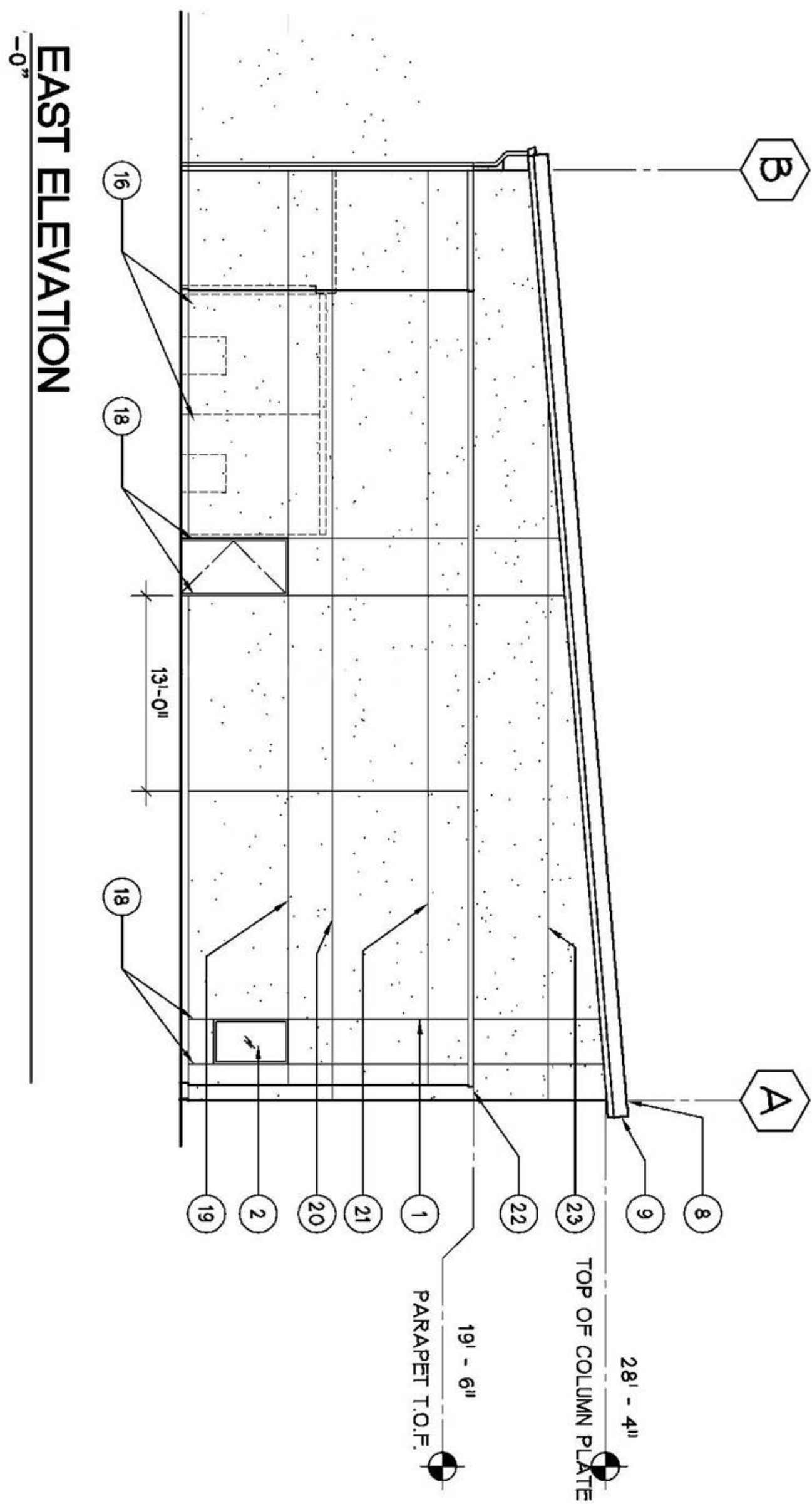
NOTE:
BASKETBALL COURT STRIPING AND BLEACHER ARE FOR
ILLUSTRATION PURPOSES ONLY AND NOT PART OF THE BUILDING

HIGH SCHOOL REGULATION

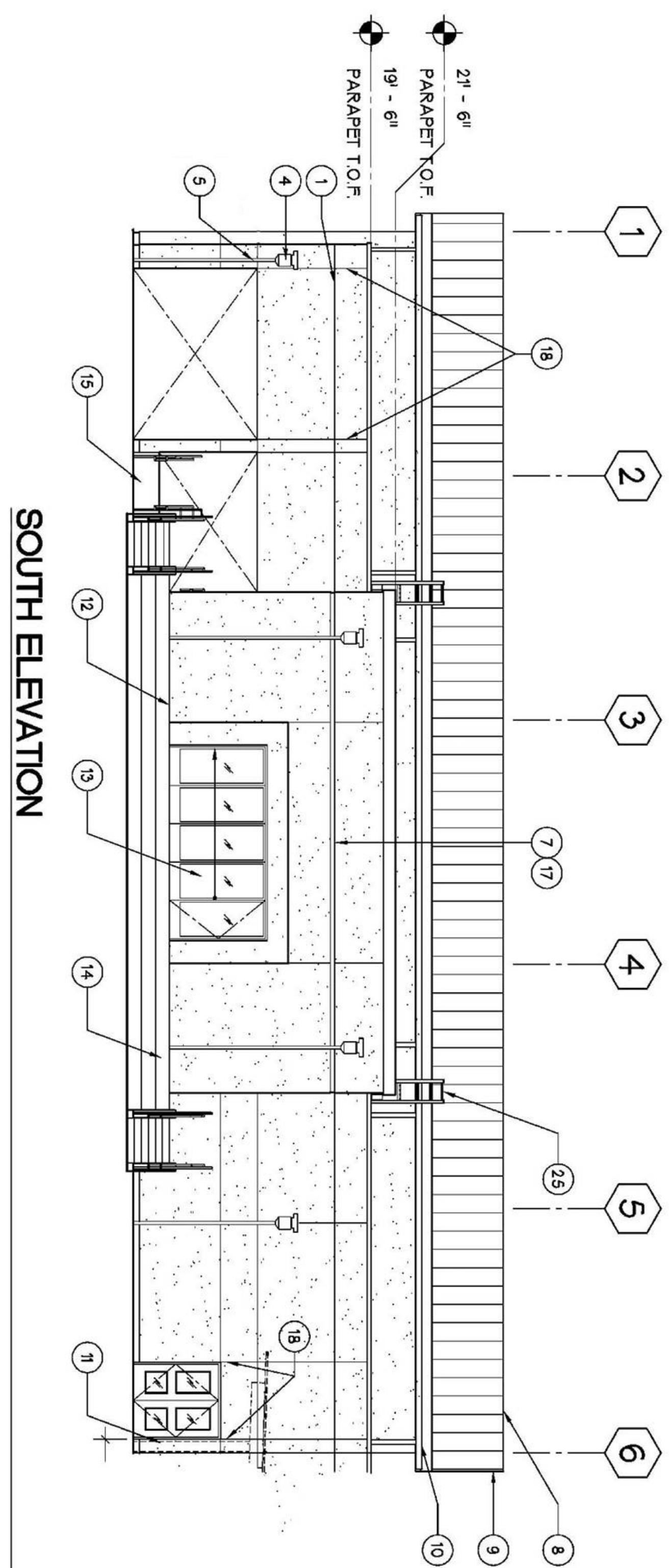


M SECTION
 SCALE : 1/8" = 1'-0"





TAB B-7.6 - Gymnasium Elevation #2
511



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TAB B-PRICING MATRIX

1. This form must be included in bid submittal.
2. Prices shall include FOB delivery to countries listed on Exhibit "A"
3. Prices reference:

Supplementary Conditions

Exhibit 1: Goods Delivery Timeframe

Component Building Specifications Section 13 34 00

Floor Plans

Inclusions Exclusions

Pre-Configured Superstructures					
Includes: Wall Panels, Decking, Glulam Beams, Misc Steel, Balcony/Rails/Canopy, Interior Stair Stringers/Rails Excludes: Lighting System, Glazing/Motorized Shades, Sunshades, Elevator Core, Roofing/Gutters/Fascia, Exterior Covered Stairs Stringers/Rails Scope as noted in Exhibit 6 Drawings. See Exhibit 5 Inclusions Exclusions for more detail.					
Dwg	No.	Configuration	Description	Unit	Price
A1	100	2-Story Double Loaded	(12) 960 sf Classrooms, Pitched or Flat Roof	Ea	\$2,035,200
A2	201	1-Story Single Loaded	(2) 960 sf Classrooms, Pitched or Flat Roof	Ea	\$372,810
A2	202	1-Story Single Loaded	(3) 960 sf Classrooms, Pitched or Flat Roof	Ea	\$471,910
A2	203	1-Story Single Loaded	(4) 960 sf Classrooms, Pitched or Flat Roof	Ea	\$570,990
A2	204	1-Story Single Loaded	(5) 960 sf Classrooms, Pitched or Flat Roof	Ea	\$644,210
A2	205	1-Story Single Loaded	(1) 1440 sf Lab/Kinder, Pitched or Flat Roof	Ea	\$240,000
A2	206	1-Story Single Loaded	(2) 1200 sf Lab/K + Prep, Pitched or Flat Roof	Ea	\$427,880
A3	207	2-Story Single Loaded	(6) 960 sf Classrooms, Pitched Roof Only	Ea	\$741,750
A3	208	2-Story Single Loaded	(8) 960 sf Classrooms, Pitched Roof Only	Ea	\$950,500
A3	209	2-Story Single Loaded	(10) 960 sf Classrooms, Pitched Roof Only	Ea	\$1,160,500
A3	210	2-Story Single Loaded	(6) 1440 sf Labs+ 2 Prep, Pitched Roof Only	Ea	\$1,001,500
A3	211	2-Story Single Loaded	(4) 1440 sf Labs+ 2 Prep, Pitched Roof Only	Ea	\$741,750
A3	212	2-Story Single Loaded	(2) 1440 sf Labs+ LG Hub, Pitched Roof Only	Ea	\$621,570
A4	214	2-Story, Double Loaded	(8) 960 CRs, (4) Labs, 1 Prep, Pitched Roof	Ea	\$2,389,440
A4	215	2-Story, Double Loaded	(6) 960 CRs, (4) Labs, (3)Preps, Pitched Roof	Ea	\$2,276,500
A4	216	2-Story, Double Loaded	(12) 1200 sf Classrooms, Pitched+ Roof Well	Ea	\$2,581,890
AS	217	Multi Purpose 8,200 sf	60' Span, 10'H + 23'H Ceiling, Flat Roof Only	Ea	\$948,140
AS	218	Multi Purpose 10,200 sf	60' Span, 10'H + 23'H Ceiling, Flat Roof Only	Ea	\$1,160,000
A7.1		Multi Purpose 5,400 sf	60' x 90' Pitched Roof	Ea	\$2,675,000
A7.2		Multi Purpose 7,000 sf	70' x 100' Pitched Roof	Ea	\$3,187,650
A7.3		Multi Purpose 8,500 sf	85' x 100' Pitched Roof	Ea	\$3,783,450
A7.4		Multi Purpose 10,000 sf	100' x 100' Pitched Roof	Ea	\$4,636,850

PRICING MATRIX

Customizable Superstructures					
Includes: Wall Panels, Decking, Gulam Beams, Misc Steel, Balcony/Rails/Canopy, Interior Stair Stringers/Rails Excludes: Lighting System, Glazing/Motorized Shades, Sunshades, Elevator Core, Roofing/Gutters/Fascia, Exterior Covered Stairs Stringers/Rails Scope as noted in Exhibit 6 Drawings. See Exhibit 5 Inclusions Exclusions for more detail.					
Dwg	No.	Configuration	Description	Unit	Price
A2	301	1-Story, Single Loaded	Pitched or Flat Roof; > 3000 square feet.	SF	\$142
A2	302	1-Story, Double Loaded	Pitched, Butterfly, Flat Roof; < 10,000 sf	SF	\$135
A2	303	1-Story, Single Loaded	Pitched, Butterfly, Flat Roof; > 10,000 sf	SF	\$130
A3	304	2-Story, Single Loaded	Pitched Roof Only, Building length up to 200 LF	SF	\$125
A4	305	2-Story, Double Loaded	Pitched Roof Only, Building area up to 24,000 sf	SF	\$125
AS	306	Multi-Purpose Building	Flat Roof Only; Support Space: 10'H Ceiling+/- 8'L; Large Room 23'H Ceiling+/- 24'L	SF	\$110

Add Alternates					
Dwg	No.	Configuration	Description	Unit	Price
CI-9	401	All	Aluminum Storefront Glazing	SF	\$20.25
CI-9	402	All	Upgrade to Operable Window Panel	Ea	\$1,075
CI-9	403	All	Single, Alum Leaf Door	Ea	\$6,500
CI-9	404	All	Double, Alum Leaf Door	Ea	\$14,000
CI-9	405	All except MPR	Motorized Shades	SF	\$5.50
AI-4	406	All except MPR	Lantana Lighting System	SF	\$5.25
AI-4	407	All except MPR	Roofing/Fascia/Gutter	SF	\$22.98
A2	408	1-Story	Alcove Enty: Wood Transom, Alum Sunshade	Ea	\$7,950
A3	409	2-Story, MPR	Aluminum Sunshades	LF	\$185
A3	410	2-Story, Single Loaded	Canopy Covered Exterior Stair Treads	Ea	\$168,350
A3	411	2-Story Single, Loaded	Canopied Balcony, Guardrails, Metal Grates	LF	\$8.75
A3	412	2-Story Single, Loaded	Upgrade to Primed, Galvanized HSS Posts	SF	\$70

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PRICING MATRIX – QUALIROOF

PART 1. GENERAL

1.1. INSTRUCTIONS

- A. This must be submitted with your bid.
- B. Add lines as needed.
- C. The price difference between tier 1 and tier 5 shall not exceed a 6% differential.

1.2. VENDOR INFORMATION

- A. Vendor Name:
- B. Manufacturer:

1.3. SALES TAX

- A. Prices listed do not include sales tax.
- B. At the time of purchase, taxes will be paid by the DISTRICT.

PART 2. PRICE LIST

Product Description	Price per Unit	Unit Measurement
QUALIROOF 601 (NOA #15-0611.09)	\$385	5-gallon pail
QUALIDECK 172 EPOXY PRIMER	\$165	5-gallon pail

PRICE SHEET – LAYKOLD COMPONENTS

PART 1. GENERAL

1.1. INSTRUCTIONS

- A. This must be submitted with your bid.
- B. Add lines as needed.
- C. The price difference between tier 1 and tier 5 shall not exceed a 6% differential.

1.2. VENDOR INFORMATION

- A. Vendor Name:
- B. Manufacturer:

1.3. SALES TAX

- A. Prices listed do not include sales tax.
- B. At the time of purchase, taxes will be paid by the DISTRICT.

PART 2. PRICE LIST

<u>PRODUCT</u>	<u>UNITS</u>	<u>APT Product Code</u>	<u>Price per Unit</u>
Acrylic Concrete Primer	6 gal pail	6356-P6	\$195
Qualipur 152 (Poly Primer)	3 gal kit	5210-KIT	\$240
Qualipur 172 (Epoxy VTB)	2.5 gal kit	7905-KIT	\$545
Acrylic Deep Patch	6 gal pail	5978-P6	\$198
Acrylic Deep Patch	275 gal tote	5978-TUN	\$1,820
Laykold Crack Filler	2 gal kit	6598-UNI-MS	\$115
Acrylic Resurfacer Black	30 gal drum	5073-O30	\$1,125
Acrylic Resurfacer Black	55 gal drum	5073-O55	\$1,125
Acrylic Resurfacer Neutral	30 gal drum	6114-O30	\$1,125
Acrylic Resurfacer Neutral	55 gal drum	6114-O55	\$1,125
NuSurf Black	30 gal drum	6330-O30	\$1,295
	55 gal drum	6330-O55	\$1,295
NuSurf Neutral	30 gal drum	6331-O30	\$1,295
	55 gal drum	6331-O55	\$1,295
NuSurf G2 Black	30 gal drum	6007-O30	\$1,531
	55 gal drum	6007-O55	\$1,531
Cushion Plus Powder	30 gal drum	6901-O30	\$1,195
	55 gal drum	6901-O55	\$1,195
Cushion Plus Granular	30 gal drum	6903-O30	\$1,195
	55 gal drum	6903-O55	\$1,195
Cushion Plus Micron	30 gal drum	7856-O30	\$1,560
	55 gal drum	7856-O55	\$1,560

PRICE SHEET – LAYKOLD COMPONENTS

PRODUCT	Colors	APT Product Code	Price per Unit	APT Product Code	Price per Unit
		Unit: 30 gal drum	NOT AVAILABLE	Unit: 55 gal drum	
Standard	Dark Green	5090-O30		5090-O55	\$1,550
	Brick Red	5085-O30		5085-O55	\$1,550
	Medium Green	5088-O30		5088-O55	\$1,550
	Forest Green	5890-O30		5890-O55	\$1,550
	Dark Blue	5736-O30		5736-O55	\$1,550
	Belge	5086-O30		5086-O55	\$1,550
	Burgundy	6197-O30		6197-O55	\$1,550
	Light Blue	5089-O30		5089-O55	\$1,550
	Dark Grey	6009-O30		6009-O55	\$1,550
	Grass Green	7917-O30		7917-O55	\$1,550
	Pro Blue	7918-O30		7918-O55	\$1,550
	Royal Purple	7029-O30		7029-O55	\$1,960
Vibrant	Teal	6570-O30		6570-O55	\$3,360
	Coral	6575-O30		6575-O55	\$3,360
	Key Lime	6563-O30		6563-O55	\$3,360
	Black	6557-O30		6557-O55	\$3,360
	Midnight	6566-O30		6566-O55	\$3,360
	Pumpkin	6572-O30		6572-O55	\$3,360
	Scarlet	6571-O30		6571-O55	\$3,360
	Canary	6564-O30		6564-O55	\$3,360
	Mocha	6567-O30		6567-O55	\$3,360
	Kiwi	6565-O30		6565-O55	\$3,360
	Silver	6573-O30		6573-O55	\$3,360
	Arctic	6555-O30		6555-O55	\$3,360
Colorflex		30 gal drum		55 gal drum	
Standard	Dark Green	6195-O30		6195-O55	\$1,795
	Brick Red	6193-O30		6193-O55	\$1,795
	Medium Green	6194-O30		6194-O55	\$1,795
	Forest Green	6679-O30		6679-O55	\$1,795
	Dark Blue	6700-O30		6700-O55	\$1,795
	Belge	6723-O30		6723-O55	\$1,795
	Burgundy	6722-O30		6722-O55	\$1,795
	Light Blue	7176-O30		7176-O55	\$1,795
	Dark Grey	6578-O30		6578-O55	\$1,795
	Grass Green	7915-O30		7915-O55	\$1,795
	Pro Blue	7916-O30		7916-O55	\$1,795
	Royal Purple	7522-O30		7522-O55	\$2,095
Vibrant	Teal	6577-O30		6577-O55	\$3,945
	Coral	6604-O30		6604-O55	\$3,945
	Key Lime	6605-O30		6605-O55	\$3,945
	Black	6592-O30		6592-O55	\$3,945
	Midnight	6600-O30		6600-O55	\$3,945
	Pumpkin	6602-O30		6602-O55	\$3,945
	Scarlet	6603-O30		6603-O55	\$3,945
	Canary	6593-O30		6593-O55	\$3,945
	Mocha	6601-O30		6601-O55	\$3,945
	Kiwi	6599-O30		6599-O55	\$3,945
	Silver	6576-O31		6576-O56	\$3,945
	Arctic	6591-O30		6591-O55	\$3,945

PRICE SHEET – LAYKOLD COMPONENTS

PRODUCT	Colors	APT Product Code	Price per Unit
Advantage		Unit: 30 gal drum	
Advantage Standard	Dark Green	6232-O30	
	Brick Red	6214-O30	\$825
	Medium Green	6234-O30	\$825
	Forest Green	6666-O30	\$825
	Dark Blue	7106-O30	\$825
	Beige	7120-O30	\$825
	Burgundy	7702-O30	\$825
	Light Blue	7704-O30	\$825
	Dark Grey	6003-O30	\$825
	Grass Green	7885-O30	\$825
	Pro Blue	7892-O30	\$825
	Royal Purple	7705-O30	\$825
Vibrant	Teal	6165-O30	\$1,060
	Coral	6505-O30	\$1,710
	Key Lime	6519-O30	\$1,710
	Black	7083-O30	\$1,710
	Midnight	6522-O30	\$1,710
	Pumpkin	6530-O30	\$1,710
	Scarlet	6539-O30	\$1,710
	Canary	6541-O30	\$1,710
	Mocha	6543-O30	\$1,710
	Kiwi	6545-O30	\$1,710
	Silver	6548-O31	\$1,710
	Arctic	6552-O30	\$1,710
LM Line Prime Box (2 gal pails)	N/A	6490-BOX	\$95
LM TWLP Box (2 gal Pails)	N/A	7953-BOX	\$99.50
Seaming Tape 12" (328'x12")	NA	5299-RL	\$185.50

PRICE SHEET – LAYKOLD MASTER COMPONENTS

PART 1. GENERAL

1.1. INSTRUCTIONS

- A. This must be submitted with your bid.
- B. Add lines as needed.
- C. The price difference between tier 1 and tier 5 shall not exceed a 6% differential.

1.2. VENDOR INFORMATION

- A. Vendor Name:
- B. Manufacturer:

1.3. SALES TAX

- A. Prices listed do not include sales tax.
- B. At the time of purchase, taxes will be paid by the DISTRICT.

PART 2. PRICE LIST

<u>PRODUCT</u>	<u>UNITS</u>	<u>APT Product Code</u>	<u>Price per Unit</u>
LM Flex Fill	5 gal pail	6006-P5-MS	\$155
LM Concrete Primer	3 gal kit	5210-KIT-MS	\$205
Qualipur 172 MVB	2.5 gal kit	7905-KIT	\$479
LM Adhesive	1 gal kit	7119-KXS-MS	\$69
LM Adhesive	5 gal kit	7119-KIT-MS	\$258
LM Edge Sealer	5 gal kit	5112-KIT-MS	\$275
LM Joint Adhesive	5 gal kit	5112-KIT-MS	\$275
LM Sealer	5 gal pail	7901-P5-MS	\$195
LM Filler	5 gal pail	7861-P5-MS	\$151
LM Bond Kote	5 gal pail	7862-P5-MS	\$295
LM Gel	5 gal kit	6078-KIT-MS	\$195
LM Wearcoat	4.19 gal kit	7561-KIT-MS	\$210
LM 5 Shock Pad (4mm) with Tennis Balls	59" wide x leng	6838-RL-MS	\$9.55
LM 8 Shock Pad (7mm) - G-Layer with Tennis Balls	59" wide x leng	7023-RL-MS	\$19.55

PRICE SHEET – LAYKOLD MASTER COMPONENTS

<u>PRODUCT</u>	<u>Color</u>	<u>APT Product Code</u>	<u>Price per Unit</u>
LM Top Coat		Unit: 5 gal pail	
Standard	LM Dark Green	6214-P5-MS	
	LM Brick Red	6232-P5-MS	
	LM Medium Green	6234-P5-MS	
	LM Forest Green	6666-P5-MS	
	LM Dark Blue	7106-P5-MS	
	LM Beige	7120-P5-MS	
	LM Burgundy	7702-P5-MS	
	LM Light Blue	7704-P5-MS	
	LM Dark Grey	6003-P5-MS	
	LM Grass Green	7885-P5-MS	
	LM Pro Blue	7892-P5-MS	
	LM White	7947-P5-MS	
	LM Royal Purple	7705-P5-MS	
Vibrant	LM Teal	6165-P5-MS	
	LM Coral	6505-P5-MS	
	LM Key Lime	6519-P5-MS	
	LM Black	7083-P5-MS	
	LM Midnight	6522-P5-MS	
	LM Pumpkin	6530-P5-MS	
	LM Scarlet	6539-P5-MS	
	LM Canary	6541-P5-MS	
	LM Mocha	6543-P5-MS	
	LM Kiwi	6545-P5-MS	
	LM Silver	6548-P5-MS	
	LM Arctic	6552-P5-MS	
	Custom Color Match	Custom	
LM Line Prime Box (2 gal pails)	N/A	6490-BOX	
LM TWLP Box (2 gal Pails)	N/A	7953-BOX	
Seaming Tape 12" (328' x 12")	N/A	5299-RL	

PRICING MATRIX

[END OF SECTION]

Basis of Award Summary Bid Option 2, Tab B: *Modular Components*

1. Bidder Requirements
 - 1.1. Bidder is required to complete all items noted on the Pricing Matrix and the Basis of Award Summary in this tab.
 - 1.2. Failure to provide costs for each and every item for Tabs B-E in Bid Option 2 shall result in this Bid Option 2 being declared “non-responsive”.
2. Discrepancies: If there is any discrepancy between costs provided on the Pricing Matrix and the Basis of Award Summary in this tab, only the lowest cost shall be utilized by the DISTRICT.
3. Basis of Award Form Summary
 - 3.1. This form represents a hypothetical example of a project (or projects) that the DISTRICT may utilize under Bid Option 2.
 - 3.2. The Basis of Award Summary shall be completed using the costs noted by the bidder in the Pricing Matrix in this tab and shall be utilized for purposes of determining the lowest cost responsible bidder by combining this with the final Basis of Award form for Bid Option 2: Tabs B-E.
4. Project Description
 - 4.1. This is a hypothetical project for the DISTRICT with quantities based on standard classroom educational programs.
 - 4.2. The costs represent the same costs noted on the Pricing Matrix and applied to this hypothetical project.
 - 4.3. The summary total cost from this tab shall be combined with other tabs in Bid Option 2 and that final cost will be the basis for awarding Bid Option 2.
5. Notice to Contractor
 - 5.1. Understand that all materials to be installed are to be received as a completed project.
 - 5.2. All sundry items necessary for a completed project is to be included in the prices below.
6. DISTRICT Material / Attic Stock / Stored Material
 - 6.1. DISTRICT owned materials for these projects shall be stored by the contractor.

Basis of Award Summary Bid Option 2, Tab B: *Modular Components*

7. Delivery, Storage, Warehousing, and Pick Up
 - 7.1. Contractor will be responsible for delivering, storing, and warehousing materials for the term of the contract.
 - 7.2. Price includes delivery FOB to destinations in the following counties in the State of CA: Sonoma, Marin, San Francisco, San Mateo, Santa Cruz, Santa Clarita, Alameda, Contra Costa, San Joaquin, Stanislaus, Merced, Fresno, Solano, Napa, Sacramento, Yolo, El Dorado, Placer, Santa Barbara, Ventura, Los Angeles, Orange, San Diego, Riverside, San Bernadino.
 - 7.3. All other counties and areas outside the listed are subject to a 20% freight cost.
 - 7.4. Price shall not include sales tax.
 - 7.5. At the time of purchase, taxes will be paid by the DISTRICT.

Bidder Name:

DSA PC#	Dwg Ref	Item	Product	Unit	Price
	A1	100	2-Story, Double Loaded 12 Classroom Componentized Building	1 Building Core	\$2,035,200
Grand Total:					

Basis of Award Summary Bid Option 2, Tab B: *Modular Components*

[END OF SECTION]

Piggyback No. 5: Portable, Modular, and Pre-Fabricated Solutions

TAB C: *Ancillary Materials*



TAB C: Ancillary Materials, Bid Option 2 (Must include TABs B-D)

SPECIFICATIONS/PRICING MATRIX.....	528
• CEILING TILE	
• WINDOW AND DOOR	
• FLOORING	
• WHITEBOARDS	
• WALL	
• LIGHTING	
• PLUMBING	
• CLASSROOM FURNITURE	
• PAINT	
• ROOFING	
• GUTTERS AND DOWN SPOUTS	
• GARAGE DOORS	
• ASPHALT, SLURRY AND STRIPING	
• CONCRETE	
• PLAYGROUND	
• FENCING	
• SHADE STRUCTURE	
• LANDSCAPE	
• ARTIFICIAL TURF AND SPORTS TRACK	
• DISINFECTANT CHEMISTRY	
• DOLLIES, HAND & PUSH CARTS, FLAT	
• CARRIERS, SOIL CARTS AND WAGONS	
• ELECTRIC UTILITY BURDEN CARRIERS	
• CATALOG DISCOUNT	
BASIS OF AWARD SUMMARY Bid Option 2, Tab C: <i>Ancillary Materials</i>	179

School Zone® FINE FISSURED™ & School Zone® GEORGIAN™

Square Lay-in
medium texture

SPECIFICATIONS CEILING TILES



TOTAL
ACOUSTICS™



This panel is a good choice for classrooms with economical, non-directional ceilings and improved acoustics.

KEY SELECTION ATTRIBUTES

- Get total noise control and design flexibility with Total Acoustics™ ceiling panels: $NRC + CAC = \text{Total Acoustics}^{\text{TM}}$ performance
- Excellent sound absorption – products can help comply with ANSI S12.60 Classroom Guidelines
- Economical
- Non-directional visual reduces scrap and installation time
- 30-Year Limited System Warranty against visible sag, mold, and mildew

TYPICAL APPLICATIONS

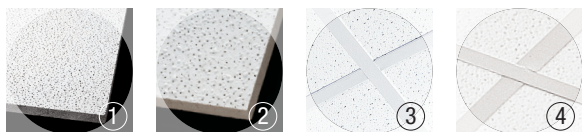
- Schools
- Healthcare – assists in addressing HIPAA and FGI acoustical requirements
- Libraries/band rooms
- Corridors

COLOR



White

DETAILS (Other Suspension Systems compatible. Refer to listing on page 228.)



1. School Zone Fine Fissured Square Lay-in
2. School Zone Georgian
3. Fine Fissured Square Lay-in with Prelude 15/16" suspension system
4. School Zone Georgian with Prelude 15/16" suspension system

227





TechLineSM 877 ARMSTRONG
armstrong.com/commceilings



School Zone® FINE FISSURED™ & School Zone® GEORGIAN™

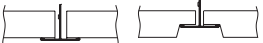




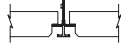

Square Lay-in
medium texture

VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 295-299 armstrong.com/catdwgs	Item No.	Dimensions (Inches)
School Zone® FINE FISSURED™			
15/16" Square Lay-in	1	1713	24 x 24 x 3/4" □
	1	1810	24 x 24 x 3/4" □
	1	1714	24 x 48 x 3/4" □
	1	1811	24 x 48 x 3/4" □
15/16" Angled Tegal	13	1717	24 x 24 x 3/4" □
	13	1820	24 x 24 x 3/4" □
	13	1824	24 x 48 x 3/4" □
9/16" Beveled Tegal	29, 44, 48, 52, 56, 60	1719	24 x 24 x 3/4" □
	29, 44, 48, 52, 56, 60	1821	24 x 24 x 3/4" □
School Zone® GEORGIAN			
15/16" Square Lay-in	1	796	24 x 24 x 3/4" □
	1	795	24 x 48 x 3/4" □

¹ Total Acoustics™ ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.
GOOD (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

SUSPENSION SYSTEMS

15/16"		9/16"						
	Prelude® Prelude XL® Fire Guard		Silhouette® 1/4" Revealed	Silhouette® 1/8" Revealed	Suprafine® Suprafine® XL® Fire Guard™	Interlude® XL® HRC	Sonata® XL®	Trimlok®

PHYSICAL DATA

Material

Wet-formed mineral fiber

Surface Finish

Factory-applied latex paint

Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled.) Fire Guard: A fire-resistive ceiling when used in applicable UL assemblies.

ASTM E1264 Classification

Type III, Form 2, Pattern C E
Fire Class A

Humidity/Sag Resistance

HumiGuard® Plus ceiling panels maintain superior sag resistance. Recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

Anti-Mold/Mildew

Ceiling panels with BioBlock® coating contain a mold-inhibiting agent that resists the growth of mold and mildew.

VOC Emissions

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

High Recycled Content

Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

Insulation Value

School Zone Fine Fissured: R Factor – 1.5 (BTU units) R Factor – 0.26 (Watts units)
School Zone Georgian: R Factor – 1.6 (BTU units) R Factor – 0.28 (Watts units) LEED® is a registered trademark of the U.S. Green Building Council. All other trademarks used herein are the property of AWI Licensing Company and/or its affiliates. © 2015 AWI Licensing Company Printed in the United States of America

30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at armstrong.com/warranty

Weight; Square Feet/ Carton

1824 – 1.20 lbs/SF; 64 SF/ctn
1717, 1719 – 1.25 lbs/SF; 48 SF/ctn
1713, 1810, 1820, 1821 – 1.31 lbs/SF; 48 SF/ctn
1714, 1811 – 1.38 lbs/SF; 64 SF/ctn
795 – 1.38 lbs/SF; 64 SF/ctn
796 – 1.31 lbs/SF; 48 SF/ctn

Minimum Order Quantity

1 carton

Metric Items Available

Items 1810M, 1811M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics	Total Acoustics ¹	Fire Rating	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Recycled Content	Recycle Program	30-Yr Warranty
NRC + CAC =	NRC + CAC											
UL Classified				Bio-Block	Humi-Guard+							
0.70 • 35	BETTER	Class A	0.85 •	•	•	•	–	–	–	•	•	•
0.70 • 40	BETTER	Fire Guard™	0.85 •	•	•	•	–	–	–	•	•	•
0.70 • 40	BETTER	Class A	0.85 •	•	•	•	–	–	–	•	•	•
0.70 • 40	BETTER	Fire Guard	0.85 •	•	•	•	–	–	–	•	•	•
0.70 • 40	BETTER	Class A	0.85 •	•	•	•	–	–	–	•	•	•
0.70 • 35	BETTER	Fire Guard	0.85 •	•	•	•	–	–	–	•	•	•
0.70 • 35	BETTER	Fire Guard	0.85 •	•	•	•	–	–	–	•	•	•
0.70 • 40	BETTER	Class A	0.85 •	•	•	•	–	–	–	•	•	•
0.70 • 35	BETTER	Class A	0.85 •	•	•	•	–	–	–	•	•	•
0.65 • 35	GOOD	Class A	0.86 •	•	•	•	•	•	•	•	•	•
0.65 • 35	GOOD	Class A	0.86 •	•	•	•	•	•	•	•	•	•

TechLine™ / 1 877 ARMSTRONG
armstrong.com/commceilings

(search: school zone)
BPCS-4629-915

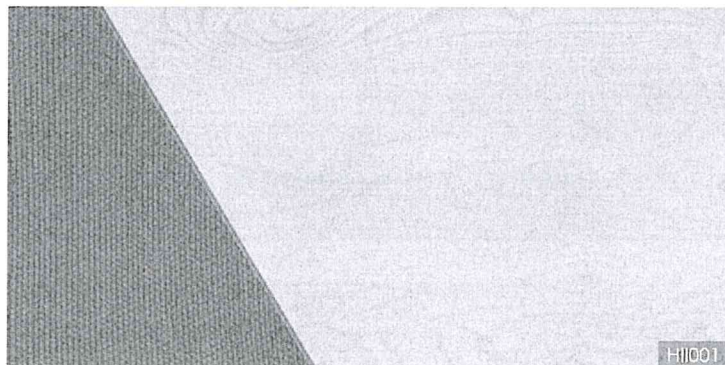
Armstrong® 228

CSI

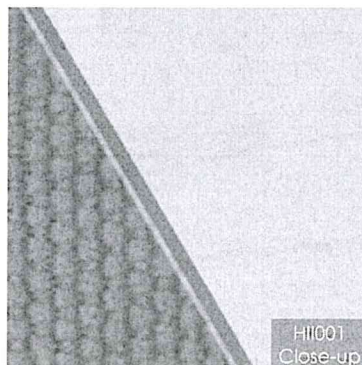
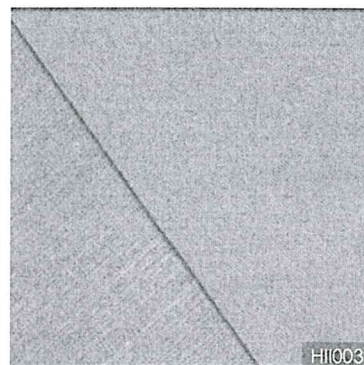
Wall Panels

HIGH IMPRESSIONS

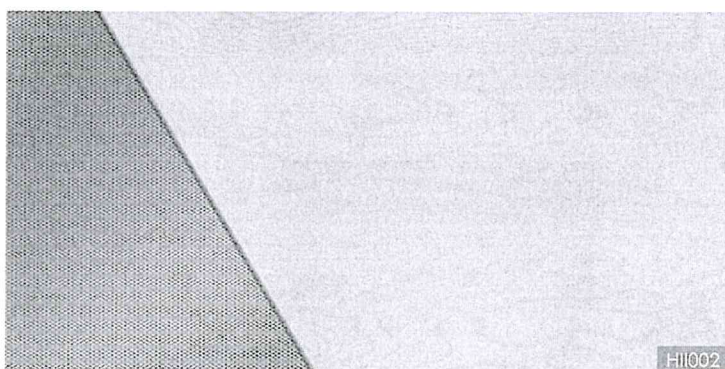
Mineral Fibre Ceiling Tile



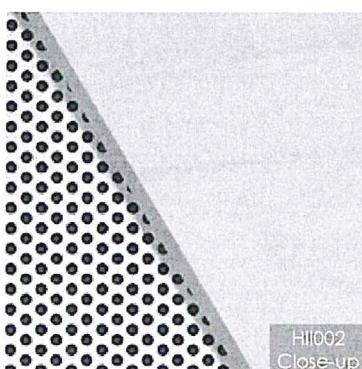
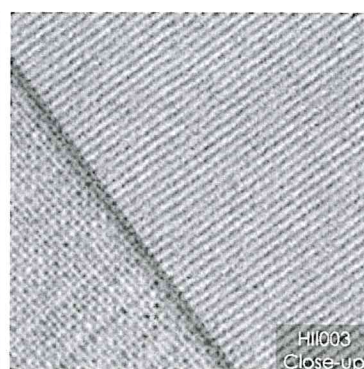
HI1001


HI1001
Close-up

HI1003



HI1002

HI1002
Close-upHI1003
Close-up

SIZE	DESIGN	EDGE DETAIL	NRC	FIRE RATING ASTM E84	WASHABLE	LEED® v4	VOC COMPLIANT
24" x 24" x 3/4"	HI1001, HI1002, HI1003	 Trim 15/16 Grid	0.7	Class A	YES	YES	YES
24" x 48" x 3/4"							



Acoustical & Sound Dampening

Outstanding acoustical performance for sound absorption and sound blocking.



Sustainable

Over half of the product's material content comes from recycled content.



Fire Rated

Complies with building fire codes with a Class A rating per ASTM E84.



People & Environmentally Friendly

Meets LEED® v4 VOC compliance guidelines and is certified compliant with California Department of Public Health CDPH/EHLB Standard Method version 1.1, 2010.



Durable

Exceptional surface durability including scratch, sag, and mold resistance.



LEED®

Compliant with LEED® for schools classroom acoustic prerequisite.



Washable

Excellent washability and cleanability with sanitizing chemicals.

CSIWALLPANELS.COM
INFO@CSIWALLPANELS.COM

952-224-9959

USG "F" FISSURED™ BASIC ACOUSTICAL PANELS

USG "F" Fissured™ Basic
Acoustical Panels/USG Donn®
Brand Centricitee™ DX™ Acoustical
Suspension System

TO ORDER SAMPLES, GO TO USG.COM



Flat White
050

FEATURES AND BENEFITS

- Cast product with durable surface that resists scrapes commonly caused by accessing the ceiling plenum.
- Zero VOC emissions exceed CA Specification 01350.
- USDA Certified Biobased Product.⁶
- 12"x12" tile with the USG Donn® Brand DX®/DXL™ Concealed Acoustical Suspension System creates a "gridless" appearance.

APPLICATIONS

- Administrative offices
- Schools
- Financial institutions
- Religious buildings

SUBSTRATE

- Cast mineral fiber

Medium-Textured Panel

USG "F" FISSURED™ BASIC ACOUSTICAL PANELS

ORDER SAMPLES/LITERATURE
usg.com | samplrt@usg.com
fax: 888 874-2348

SEE LEED REPORT TOOL
for detailed sustainability
information, as well as the
MOST UP-TO-DATE
TECHNICAL INFORMATION,
at usgdesignstudio.com



UL Classified

Edge	Panel Size	Fire Rating	Item No.	NRC	CAC Min.	LR ²	Color	Grid Options	VOC Emissions	Abuse Resistant	Recycled Content ¹	Panel Cost
SQ 	2'x2'x3/4" Paper-Back	Class A	131	.70	35	.79	White	A,B,C	Zero		66%	\$\$\$
	2'x4'x3/4" Paper-Back	Class A	135	.70	35	.79	White	A,B	Zero		66%	\$\$\$
SL 	2'x2'x3/4" Paper-Back	Class A	132	.70	35	.79	White	D	Zero		66%	\$\$\$
	2'x4'x3/4" Paper-Back	Class A	136	.70	35	.79	White	D	Zero		66%	\$\$\$
FL 	2'x2'x3/4" Paper-Back	Class A	133	.70	35	.79	White	E,F,G,H	Zero		66%	\$\$\$
BESK 	12"x12"x3/4"	Class A	102	.70	25	.79	White	I	Zero		66%	\$\$\$\$
SESK 	12"x12"x3/4"	Class A	101	.70	25	.79	White	J	Zero		66%	\$\$\$\$

Zero Emissions (VOC)

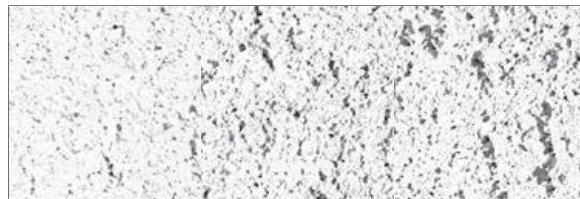
Zero-emitting performance exceeds CA Specification 01350 (CA Dept. of Health Services Standard Practice for the testing of VOC emissions) and is listed on the CHPS database. USG Certificate of Compliance for Zero VOC Emissions also available on usg.com.

High Recycled Content

Classified as containing greater than 50% total recycled content. Total recycled content is based on product composition of postconsumer and preconsumer (postindustrial) recycled content per FTC guidelines.

GRID PROFILE OPTIONS

A USG DX®/DXL™	B USG DXW™	C USG Centricitee™ DXT™	D USG DX®/DXL™	E USG Centricitee™ DXT™	F USG Fineline® DXF™	G USG Fineline® 1/8 DXFF™	H USG Identitee™ DXI™	I USG DX®/DXL™ Concealed	J USG DX®/DXL™ Concealed



Composite of USG "F" Fissured™ Basic ceiling products shows range to be expected in a production lot and possibly in the same panel or tile. Ranges are random and cannot be specified. Texture appearance will vary based on ceiling height, installation methods and natural variations of the product.

PHYSICAL DATA/ FOOTNOTES

Product literature

Data sheet: SC1816

ASTM E1264 classification

Type III, Form 4, Pattern D

ASTM E84 surface-burning characteristics

Class A

Flame spread: 25

Smoke developed: 50

Weight

1.70 lbs./sq. ft.

Thermal resistance

R-1.7

Maximum backloading

See USG 30-Year Limited Warranty Commercial Applications (SC2102).

Maintenance

Can be cleaned easily with a soft brush or vacuum.

Texture

The manufacturing process for cast ceiling panels creates natural, subtle texture variations, which is a distinguishing feature of these products. Because of potential variances between production dates, we recommend ordering and installing cast products by production lot number.

Notes

1. For details, see LEED report tool at usgdesignstudio.com.

2. LR values are shown as averages.

3. Contact USG for adhesive recommendations for 12"x12" glue-up applications.

4. Not UL Classified for acoustics.

5. Maximum 2'x2' with SQ edge panels.

6. This product has achieved both BioPreferred initiatives: Federal Procurement Preference and Certified Product Labeling. See the complete listing of all USG ceiling panels on biopreferred.gov website.

PRICING MATRIX

CEILING TILE			
Product Description		UOM	Price
Acoustical Suspension Systems	Metal Suspension System ASTM C 635 Heavy Duty (15/16" Exposed Tee) 1/2" thick	SF	\$4.95
Acoustical Suspension Systems	Metal Suspension System ASTM C 635 Heavy Duty (15/16" Exposed Tee) 5/8" thick	SF	\$4.95
Acoustical Suspension Systems	Metal Suspension System ASTM C 635 Heavy Duty (15/16" Exposed Tee) 3/4" thick	SF	\$4.95
Ceiling Tiles	School Zone Fine Fissured 15/16" Square Lay-in 24x24	SF	\$3.50
Ceiling Tiles	School Zone Fine Fissured 15/16" Square Lay-in 24x48	SF	\$3.50
Ceiling Tiles	School Zone Fine Fissured 15/16" Angled Tegular 24x24	SF	\$3.95
Ceiling Tiles	School Zone Fine Fissured 15/16" Angled Tegular 24x48	SF	\$3.95
Ceiling Tiles	School Zone Fine Fissured 9/16" Beveled Tegular 24x24	SF	\$4.15
Ceiling Tiles	Auris Baffle, Exposed Edge or Wrapped Edge, 1 1/4 in. panel thickness	Square Foot	Inquire
Ceiling Tiles	Auris Suspended 25, Exposed Edge or Wrapped Edge, 1 in. panel thickness	Square Foot	Inquire
Ceiling Tiles	Boxleaf, Two Layers, 4' x 8'	Layer	\$1,325.50
Ceiling Tiles	Ceramaguard-Square Lay-In	Package	\$372.50
Ceiling Tiles	Clean Room FL- Square Lay-In	Package	\$575.50
Ceiling Tiles	Clean Room FL- Square Lay-In	Package	\$825.50
Ceiling Tiles	Clean Room VL (Unperforated)-Flash Guard- Square Lay-In	Package	\$345.50
Ceiling Tiles	Clean Room VL (Unperforated)-Flash Guard- Square Lay-In	Package	\$395.50
Ceiling Tiles	Clown Fish, Comb, 6"	Layer	\$255.50
Ceiling Tiles	Clown Fish, Comb, 12"	Layer	\$695.50

PRICING MATRIX

CEILING TILE			
Product Description		UOM	Price
Ceiling Tiles	Clown Fish, Comb, 24"	Layer	\$195.50
Ceiling Tiles	Comb, Comb, 6"	Layer	\$255.50
Ceiling Tiles	Comb, Comb, 12"	Layer	\$695.50
Ceiling Tiles	Comb, Comb, 24"	Layer	\$195.50
Ceiling Tiles	Comb, Two Layers, 4' x 8'	Layer	\$1,325.50
Ceiling Tiles	Cortega and Second Look- Angled Tegmentar	Package	\$215.50
Ceiling Tiles	Cortega and Second Look-Beveled Tegmentar	Package	\$145.50
Ceiling Tiles	Cortega and Second Look-Square Lay-In	Package	\$165.50
Ceiling Tiles	Cortega Fire Guard-Angled Tegmentar	Package	\$245.50
Ceiling Tiles	Cortega Fire Guard-Square Lay-In	Package	\$195.50
Ceiling Tiles	Distort, Two Layers, 4' x 8'	Layer	\$1,325.50
Ceiling Tiles	Georgian- Square Lay-In	Package	\$230.50
Ceiling Tiles	Georgian High Washibility-Square Lay-In	Package	\$215.50
Ceiling Tiles	Hardware & Accessories	Each	\$35.50
Ceiling Tiles	Iso, Comb, 6"	Layer	\$165.50
Ceiling Tiles	Iso, Comb, 12"	Layer	\$565.50
Ceiling Tiles	Iso, Comb, 24"	Layer	\$141.50
Ceiling Tiles	Jigsaw, Comb, 6"	Layer	\$266.50

PRICING MATRIX

CEILING TILE			
Product Description		UOM	Price
Ceiling Tiles	Jigsaw, Comb, 12"	Layer	\$510.50
Ceiling Tiles	Jigsaw, Comb, 24"	Layer	\$145.50
Ceiling Tiles	Kitchen Zone- Square-Lay-In	Package	\$245.50
Ceiling Tiles	Kitchen Zone- Square-Lay-In	Package	\$179.50
Ceiling Tiles	Multi-Panel, Acoustical Tackable Multi-Panel, 4' x 2'	Layer	\$495.50
Ceiling Tiles	Multi-Panel, Acoustical Tackable Multi-Panel, 4.5' x 2'	Layer	\$525.50
Ceiling Tiles	Multi-Panel, Acoustical Tackable Multi-Panel, 5' x 2'	Layer	\$495.50
Ceiling Tiles	Multi-Panel, Acoustical Tackable Multi-Panel, 5.5' x 2'	Layer	\$550.50
Ceiling Tiles	Optima-Square Tegular	Package	\$1,095.50
Ceiling Tiles	Ortho Random, Two Layers, 4' x 8'	Layer	\$1,350.50
Ceiling Tiles	Ortho Tile, Comb, 12"	Layer	\$245.50
Ceiling Tiles	Ortho Tile, Comb, 24"	Layer	\$705.50
Ceiling Tiles	Ortho Tile, Comb, 6"	Layer	\$185.50
Ceiling Tiles	Ortho, Two Layers, 4' x 8'	Layer	\$1,350.50
Ceiling Tiles	Pendant, Comb, 12"	Layer	\$245.50
Ceiling Tiles	Pendant, Comb, 24"	Layer	\$695.50
Ceiling Tiles	Pendant, Comb, 6"	Layer	\$179.50
Ceiling Tiles	Perfor Random, Two Layers, 4' x 8'	Layer	\$1,350.50

PRICING MATRIX

CEILING TILE			
Product Description		UOM	Price
Ceiling Tiles	Perfor Tile, Comb, 12"	Layer	\$245.50
Ceiling Tiles	Perfor Tile, Comb, 24"	Layer	\$695.50
Ceiling Tiles	Perfor Tile, Comb, 6"	Layer	\$179.50
Ceiling Tiles	Perfor, Two Layers, 4' x 8'	Layer	\$1,350.50
Ceiling Tiles	Planar Ceiling, Exposed Edge or Covered Edge, 1 in. panel thickness	Square Foot	Inquire
Ceiling Tiles	Planar, Exposed Edge or Wrapped Edge, 1/2 in. panel thickness	Square Foot	Inquire
Ceiling Tiles	Planar, Exposed Edge or Wrapped Edge, 1/2 in. panel thickness	Square Foot	Inquire
Ceiling Tiles	Random Fissured-Fiberglass- Square Lay-In	Package	\$325.50
Ceiling Tiles	Rectangle, Comb, 12"	Layer	\$160.50
Ceiling Tiles	Rectangle, Comb, 24"	Layer	\$510.50
Ceiling Tiles	Rectangle, Comb, 6"	Layer	\$130.50
Ceiling Tiles	Shark Teeth, Comb, 12"	Layer	\$250.50
Ceiling Tiles	Shark Teeth, Comb, 24"	Layer	\$695.50
Ceiling Tiles	Shark Teeth, Comb, 6"	Layer	\$179.50
Ceiling Tiles	Shasta-Fiberglass-Square Lay-In	Package	\$315.50
Ceiling Tiles	Slate, Two Layers, 4' x 8'	Layer	\$1,350.50
Ceiling Tiles	STEM Room Maker, Acoustical STEM Room Maker, 4' x 6'	Layer	Inquire
Ceiling Tiles	STEM Room Maker, Acoustical STEM Room Maker, 5' x 6'	Layer	Inquire
Ceiling Tiles	STEM Room Maker, Acoustical STEM Room Maker, 6' x 6'	Layer	Inquire
Ceiling Tiles	Template, Two Layers, 4' x 8'	Layer	\$1,350.50
Ceiling Tiles	Tron, Two Layers, 4' x 8'	Layer	\$1,350.50
Ceiling Tiles	Ultima- Square Lay-In	Package	\$245.50
Ceiling Tiles	Ultima-Beveled Tegalur	Package	\$365.50
Ceiling Tiles	Wrapping Panel, Acoustical Wrapping Panel	Layer	Inquire

PRICING MATRIX

CEILING TILE			
Product Description		UOM	Price
Ceiling Tiles	Zen, Comb, 12"	Layer	\$245.50
Ceiling Tiles	Zen, Comb, 24"	Layer	\$695.50
Ceiling Tiles	Zen, Comb, 6"	Layer	\$179.50
Ancillary Application	Deliver and Layout Acoustical Ceiling Tiles	Square Foot	\$2.75
Ancillary Application	Assemble Ceiling Tile Grid System	Square Foot	\$5.25
Ancillary Application	Ceiling Tile Installation (includes removal and disposal of existing panels)	per Panel (2x4)	\$24.00

PRICING MATRIX

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SCHLAGE

AL Series

Cylindrical locks





Put your trust in the name you know

Contents

4-5	Mechanical lock guide
6	AL Series introduction and performance features
7	Exploded view
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13	Primus XP high security cylinders
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15	IC installation tool
16	Latches
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18	Specifications and certifications

Pictured here: Saturn lever shown in 626 satin chrome

Cover photo: Neptune lever shown in 626 satin chrome finish

For more than 90 years, Schlage has been creating the strongest and most technologically advanced security products for schools, hospitals, hotels, commercial and institutional buildings, multi-family properties and homes. From durable mechanical locks to comprehensive electronic access control solutions and biometrics, Schlage provides protection at critical moments – when property and personal security are at stake. With a wide range of products, styles and finishes, Schlage has products for the most demanding project specifications. In public buildings, in the workplace, and in homes, at the end of the day Schlage stands for one thing: strong.

Be sure to ask your SSC representative to tell you about **Custom Solutions** by Allegion.
To learn more visit allegion.com/us.



QuietSolutions



CustomDécor



HighSecurity and Safety



EnvironmentalSolutions



FlexibleConfigurations

Real security is knowing exactly what you want and getting it

When you know exactly what you want, you don't want to waste time finding out whether it meets your project specifications. That's why we offer the world's largest team of hardware specification writers to help you and your clients turn your vision into reality. And when it comes to products, our commercial suiting options, wide variety of lever designs and rich selection of finishes give you the tools you need to make your projects perfect. You know what you want. With Schlage, you can be sure you'll get it.



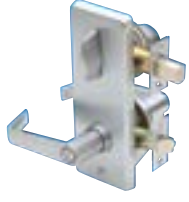


Safety, security and confidence

When you choose a Schlage lock, you can be sure you've done the job right, the first time. After all, our products are among the most durable and dependable on the market today. Our locks are easy to install, and simple to repair and maintain. That means fewer callbacks for you, and total safety and security for your customers.








SPECIFICATIONS

Schlage commercial locks

				
Tubular interconnected locks	Tubular locks	Tubular interconnected locks	Cylindrical locks	Cylindrical interconnected locks
CS200 Series	S Series	S200 Series	A Series	H Series
Grade 2	Grade 2		Grade 2	
Security level:				
ANSI/BHMA certified A156.2-2013 Exceeds 400,000 ANSI cycles Medium traffic	ANSI/BHMA certified A156.2-2011 Exceeds 400,000 ANSI cycles Light traffic	- - Exceeds 400,000 ANSI cycles Medium traffic	ANSI/BHMA certified A156.2-2011 Exceeds 400,000 ANSI cycles Medium traffic	- - Exceeds 400,000 ANSI cycles Medium traffic
Typical applications:				
Exterior Interior New construction Retrofit	- Interior - Retrofit	Exterior Interior New construction Retrofit	Exterior Interior New construction Retrofit	Exterior Interior - Retrofit
Functions available:				
1 Function - -	6 Functions - -	5 Functions - -	11 Functions - -	5 Functions - -
Design options:				
7 Finishes 15 Lever styles - 1 Matching rose 2 Interior escutcheons Tactile warning available	7 Finishes 4 Lever styles - 1 Matching rose - Tactile warning available	7 Finishes 4 Lever styles - 1 Matching rose 1 Interior escutcheon -	10 Finishes 1 Lever style 4 Knob styles 1 Matching rose - -	7 Finishes 1 Lever style 2 Knob styles 1 Matching rose 1 Interior escutcheon -
Often used in:				
Commercial Multi-family Office	Commercial Multi-family Office	Commercial Multi-family Office	Commercial Govt/military Healthcare Hospitality Office Retail	Commercial Govt/military Multi-family

Not all functions and finishes available with all products. Please consult your SSC representative for details.

SPECIFICATIONS

					
Cylindrical locks	Deadbolts		Cylindrical locks	Cylindrical locks	Mortise locks
AL Series	B Series		D Series	ND Series	L Series
Grade 2	Grade 2	Grade 1	Grade 1	Grade 1	Grade 1
Security level:					
ANSI/BHMA certified A156.2-2011 Exceeds 400,000 ANSI cycles Medium traffic	ANSI/BHMA certified A156.5-2010 Exceeds 150,000/250,000 ANSI cycles High traffic, heavy-duty		ANSI/BHMA certified A156.2-2011 Exceeds 1,000,000 ANSI cycles High traffic	ANSI/BHMA certified A156.2-2011 Exceeds 1,000,000 ANSI cycles Heavy-duty traffic	ANSI/BHMA certified A156.13-2012 Exceeds 1,000,000 ANSI cycles Heavy-duty traffic
Typical applications:					
Exterior Interior New construction Retrofit	Exterior - New construction Retrofit		Exterior Interior - Retrofit	Exterior Interior New construction Retrofit	Exterior Interior New construction Retrofit
Functions available:					
10 Functions - -	7 Functions - -	6 Functions - -	14 Functions 2 Electrified -	29 Functions 6 Electrified Vandlgard® available	49 Functions 4 Electrified Vandlgard® available
Design options:					
10 Finishes 4 Lever styles - 1 Matching rose - Tactile warning available	10 Finishes - - - - Indicator rose		10 Finishes - 3 Knob styles 1 Matching rose - -	9 Finishes 5 Lever styles - 2 Matching roses - Tactile warning available	13 Finishes 26 Lever style 3 Knob styles 4 Matching roses 2 Escutcheons Tactile warning available Antiligature available
Often used in:					
Commercial Healthcare Hospitality Office Retail	Commercial/institutional Govt/military Heavy-duty residential Hospitality Office Retail		Institutional Govt/military Hospitality Retail	Institutional Education Healthcare Office Retail	Commercial/institutional Govt/military Education Healthcare Office Retail

This chart shows the most common uses/applications. These products are often used in other applications in addition to those listed.

Rev. 11/13

AL Series

Dependable performance for high traffic commercial applications

At Schlage, we know that every product you specify has to stand up to constant use, while meeting your needs for security at every level. Our AL Series locks are designed to deliver ADA compliant accessibility and constant, reliable performance. The AL Series is best for buildings with medium to high traffic flow, such as interior office doors, banks, retail spaces and hotel guest areas. With a Grade 2 ANSI rating, and styles and finishes to suit your building's design, the AL Series fits right where you need it.

Pictured here: Jupiter lever shown in 626 satin chrome



We don't compromise on security

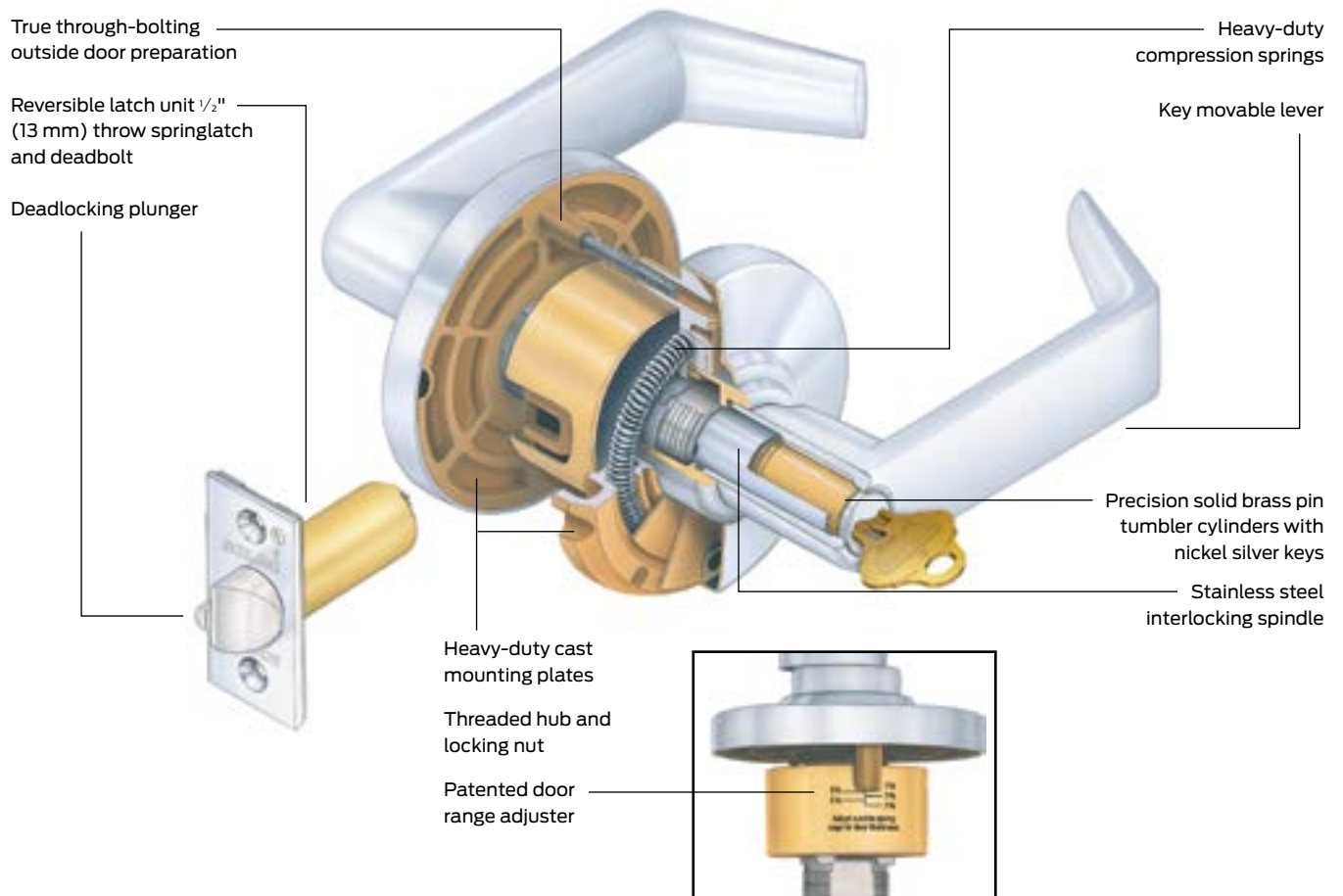
The safety and security of your clients' buildings is something we take very seriously. That's why every Schlage lock and deadbolt undergoes intensive testing to determine its ANSI grade level:

- Cycle tests
- Resistance tests
- Door impact tests
- Warped door tests
- Bolt strength tests

We pay attention to these details so you can focus on creating a functional and aesthetically pleasing environment for your clients. In fact, every one of our AL Series locks meets ANSI Grade 2 standards for safety.

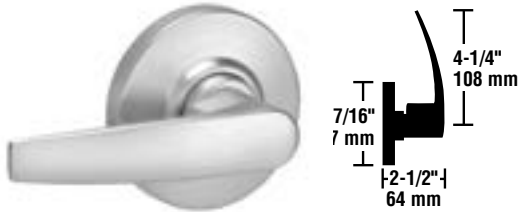
The lever that looks as good as it performs

- Cold-rolled steel, machined and threaded hubs, and locking nuts prevent the loosening of the lockset by securely bolting the chassis to the door
- Large diameter of mounting plate and rose covers new ANSI hollow metal door cutout
- Patented door range adjuster allows quick and easy adjustment for doors ranging from 1³/₈" to 1⁷/₈" (35 mm to 48 mm) thick



AL Series lever designs

Jupiter (JUP)



Symbol: JUP

Material: Pressure cast zinc lever; wrought brass or bronze rose

Suites: S Series **JUPITER**, ND Series **ATHENS** and L Series **07** designs



Neptune (NEP)



Symbol: NEP

Material: Pressure cast zinc lever; wrought brass or bronze rose

Suites: S Series **NEPTUNE**, ND Series **SPARTA** and L Series **17** designs



Omega (OME)



Symbol: OME

Material: Pressure cast zinc lever; wrought brass or bronze rose

Suites: ND Series **OMEGA** and L Series **OMEGA** designs



Saturn (SAT)



Symbol: SAT

Material: Pressure cast zinc lever; wrought brass or bronze rose

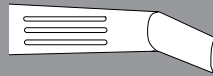
Suites: S Series **SATURN**, H Series **LEVON**, ND Series **RHODES** and L Series **06** designs

Options: Tactile warning



Tactile warning

Milled



Order as follows:
BSA for Saturn

Only available on outside lever, unless otherwise specified

All designs shown in 626 satin chrome



= Standard cylinder.



= FSIC - Full size interchangeable core option.



= SFIC - Small format interchangeable core option.



= Complies with ADA accessibility guidelines.



= Antimicrobial coating available on 626 finish only.



= Meets California code for 1/2" or less return to the door.



= Extended factory lead time.

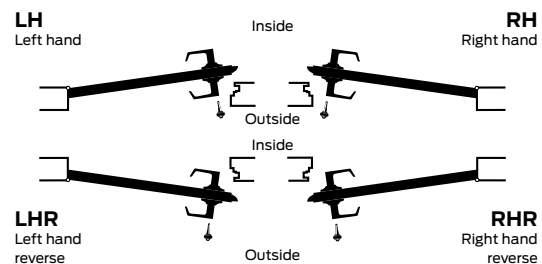
Lever finishes

										
	605 Bright brass	606 Satin brass	609 Antique brass	612 Satin bronze	613 Oil rubbed bronze	619 Satin nickel	625 Bright chromium plated	626 Satin chromium plated	626AM Anti- microbial coating	643e Aged bronze
AL Series locks										
Jupiter	•	•		•	•	•	•	•	•	•
Neptune	•	•	•	•	•	•	•	•	•	•
Omega	•	•	•	•	•	•	•	•	•	•
Saturn	•	•	•	•	•	•	•	•	•	•

e = an equivalent finish to the BHMA standard.

Door handing

All Schlage locks are reversible. Hand information is necessary to ensure proper cylinder orientation in keyed functions, and finish of latchbolt and strike for locks that are to be installed on reverse bevel doors. Follow the diagram to correctly determine the hand of the door.



ADA-compliant products



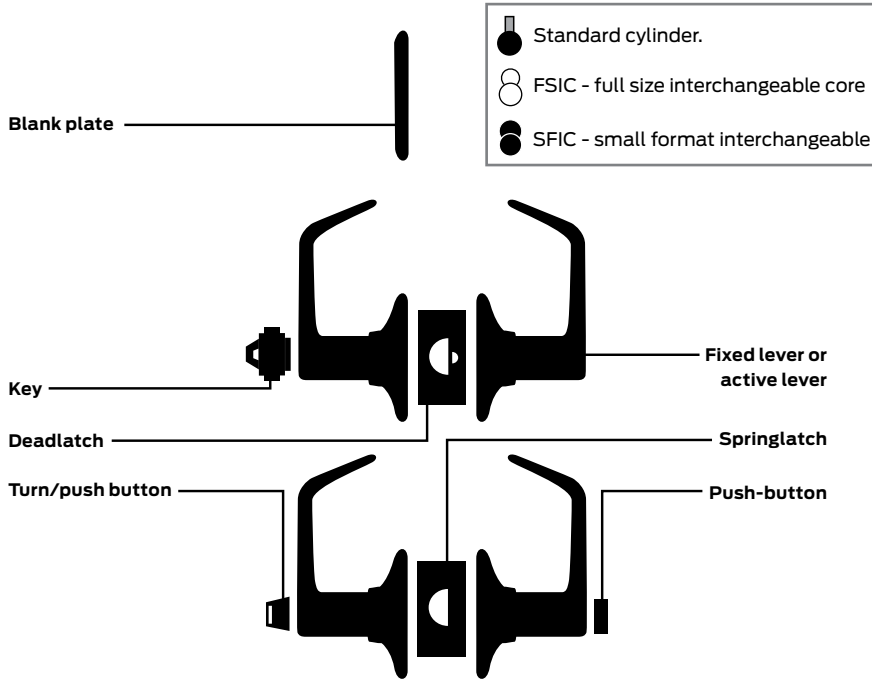
In compliance with the American National Standards Institute (ANSI A117.1) and the Americans with Disabilities Act (ADA), Schlage Lock Company offers a wide selection of locks designed for the needs of the physically challenged. This act is designed to provide protection for people with disabilities.

The intent of ADA is that owners of certain types of buildings must remove barriers and provide people with disabilities with access equal to, or similar to, that available to the general public.

Product information and specifications contained in this catalog are subject to change without notice. Please consult the factory.

Lock functions

ANSI A156.2 Series 4000 Grade 2



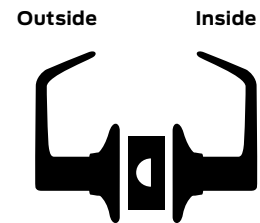
Non-keyed functions

Schlage ANSI

AL10S F75

Passage latch

- Both levers always unlocked.
- Inside lever always free for immediate egress.



Schlage ANSI

AL25D -

Exit lock

- Blank plate outside.
- Inside lever always unlocked.
- Inside lever always free for immediate egress.
- Specify door thickness.

Outside Inside



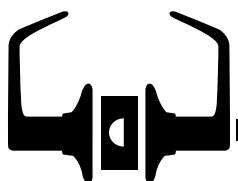
Schlage ANSI

AL40S F76

Bath/bedroom privacy lock

- Push-button locking.
- Can be unlocked from outside with small screwdriver.
- Turn inside lever or close door to release button.
- Inside lever always free for immediate egress.

Outside Inside



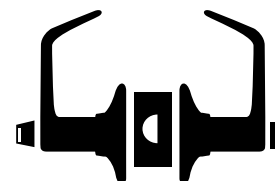
Schlage ANSI

AL44S -

Hospital privacy lock

- Push-button locking.
- Unlock from outside by turning emergency turn-button.
- Turn inside lever or close door to release button.
- Inside lever always free for immediate egress.

Outside Inside



Lock functions

ANSI A156.2 Series 4000 Grade 2

Keyed functions

Schlage ANSI

AL170 —

Single dummy trim

- Single dummy trim for one side of door.
- Used for door pull or as matching inactive trim.

Outside or Inside



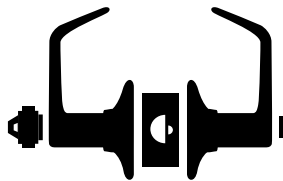
Schlage ANSI

AL50PD **F82**

Entrance/office lock

- Push-button locking.
- Push-button locks outside lever until it is unlocked with a key or by rotating the inside lever.
- Inside lever always free for immediate egress.

Outside Inside



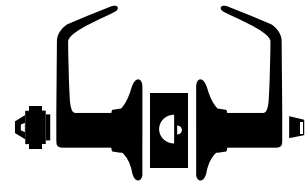
Schlage ANSI

AL53PD **F109**

Entrance lock

- Turn/push-button locking: pushing and turning button locks outside lever, requiring use of a key until the button is manually unlocked.
- Push-button locking: push-button locks the outside lever until it is unlocked by key or by turning the inside lever.
- Inside lever always free for immediate egress.

Outside Inside



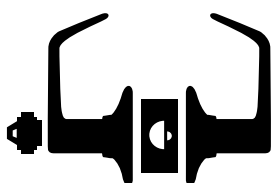
Schlage ANSI

AL70PD **F84**

Classroom lock

- Outside lever is locked and unlocked by key.
- Inside lever is always unlocked.
- Inside lever always free for immediate egress.

Outside Inside



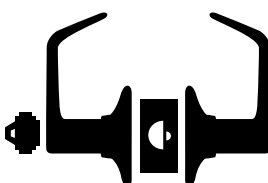
Schlage ANSI

AL80PD **F86**

Storeroom lock

- Outside lever is fixed.
- Entrance by key only.
- Inside lever is always unlocked.
- Inside lever always free for immediate egress.

Outside Inside

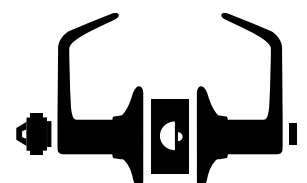


Schlage ANSI

AL85PD **F93**
Faculty restroom lock
(with indicator cylinder)

- Outside lever is fixed.
- Entrance by key only.
- Push button on inside lever activates visual occupancy indicator, allowing only the emergency masterkey to operate.
- Rotate inside lever or close door to release visual occupancy indicator.
- Rotation of inside spanner button provides lockout feature by keeping indicator thrown.
- Inside lever always free for immediate egress.

Outside Inside



Cylinders and key systems

Protect new key systems with Everest 29

Schlage can help you design a system that can grow and change along with your needs, allowing you the flexibility to upgrade your security without the need to replace all your cylinders.

What it operates

- Everest 29 Primus® XP cylinders
- Everest 29 restricted cylinders
- Everest 29 open cylinders

What it is

UL 437 version

- UL 437 versions provide drill and pick resistance and withstand physical attack
- High security cylinders have a second set of pins for added security
- Patented key control sold with various levels of geographic exclusivity
- Keys operate high security, as well as restricted security or standard security cylinders
- Available only in conventional

Controlled access

- Everest 29 Primus XP cylinders
- Everest 29 restricted cylinders
- Everest 29 open cylinders
- Patented key control sold with various levels of geographic exclusivity
- High security cylinders have a second set of pins for added security and pick resistance
- Keys operate high security, as well as restricted security or standard security cylinders
- Available only in conventional and FSIC



▲ EVEREST 29[®] PRIMUS XP
High security

- Everest 29 restricted cylinders

- Key distribution is restricted duplication must be authorized
- End user's ID numbers are stamped on all keys, enabling Schlage to identify the source of any unauthorized keys
- Patent-protected keys are drop-shipped from the factory directly to an end-user specified location to guarantee exclusivity
- Available in conventional, SFIC and FSIC



▲ EVEREST 29[®]
Restricted security

- Everest 29 open cylinders

- Patented key blanks can be stored by commercial locksmiths and security dealers
- Keys can be duplicated without any paperwork or signature verification
- Sold only through commercial outlets
- Available in conventional and FSIC



▲ EVEREST 29[®]
Standard security

Upgrade existing classic key systems with Primus XP

Schlage offers key system solutions that are ideal for upgrading an existing key system to control key management. Our patent-protected cylinders help prevent unauthorized duplication and can be integrated into virtually any existing system.

What it is

UL 437 version

- UL 437 versions provide drill and pick resistance and withstand physical attack
- High security cylinders have a second set of pins for added security
- Patented key control sold with various levels of geographic exclusivity
- Keys operate high security, as well as restricted security or standard security cylinders
- Available only in conventional

What it operates

- Primus XP cylinders
- Classic cylinders

Controlled access

- Patented key control sold with various levels of geographic exclusivity
- High security cylinders have a second set of pins for added security and pick resistance
- Keys operate high security, as well as restricted security or standard security cylinders
- Available only in conventional

- Primus XP cylinders
- Classic cylinders



PRIMUS XP
High security



CLASSIC
Basic security

- Keys can be duplicated at most retail and commercial points of sale with no restrictions
- Recommended only for residential applications or existing commercial systems that cannot rekey
- Can be upgraded to Primus XP without rekeying the entire facility
- Available in conventional and FSIC

- Classic cylinders

Standard cylinders

Standard cylinders are available in Classic keyways or in patented Everest 29 keyways.

Specify keyway to differentiate between Everest 29 and Classic.

Example: C (Classic) vs. S123 (Everest 29).

Standard cylinders - options

- Conventional 6-pin cylinder (standard)
- Primus high security cylinder
- Primus UL437 listed high security cylinder
- Conventional 6-pin AL85 function with occupancy indicator

Available in 606 and 626 finish only.
Everest 29 S123 keyway standard.



Example of lock with
cylinder for most functions



AL85 cylinder with
occupancy indicator

Primus XP access control and high security cylinders

Primus XP access control and high security cylinders are available to add patented key control and varying degrees of geographical exclusivity to most Schlage 6-pin key systems, whether Everest 29 or Classic keyways.

In addition to a conventional pin tumbler mechanism, Primus cylinders incorporate a patented finger pin and sidebar design, providing a “dual-locking” cylinder that is virtually pick-proof. Resistance to drilling and other physical attack is optional by specifying 20-500 Series UL437 Listed cylinders.

Classic Primus XP cylinders are recommended for upgrading existing Classic key systems. Due to its extended patent life, the newly designed Everest 29 Primus XP is recommended for new key systems and for upgrading existing Everest key systems. Specify keyway to differentiate between Everest 29 and Classic. Example: C or CP (Classic) vs. S123 (Everest 29).

Visit allegion.com/us for more information.

Full size interchangeable core 8

Schlage interchangeable core (IC) locksets allow immediate rekeying at the door simply by using the special control key to replace the core in seconds. IC locksets are available in Saturn design only.

Full size core



FSIC can be integrated into any 5 or 6-pin Schlage key system.



Full size interchangeable cores - options (for JD suffix locksets)

- Conventional core
- Primus XP high security core

Available in 606 and 626 finish only.
Everest 29 S123 keyway standard.

Small format interchangeable core 8

The SFIC version is designed for Schlage Everest 29 R family restricted keyway cores and is also completely compatible with Best®, Falcon and other competitive small format cores.

Small format core



Small format interchangeable cores - options (For BD suffix locksets)

- 7-pin uncombined Everest 29 R family restricted keyways
- 7-pin combined Everest 29 R family restricted keyways
- 6-pin uncombined Falcon / Best keyways
- 7-pin uncombined Falcon / Best keyways
- Disposable plastic construction core

Available in 606 and 626 finish only. Specify keyway for existing systems.

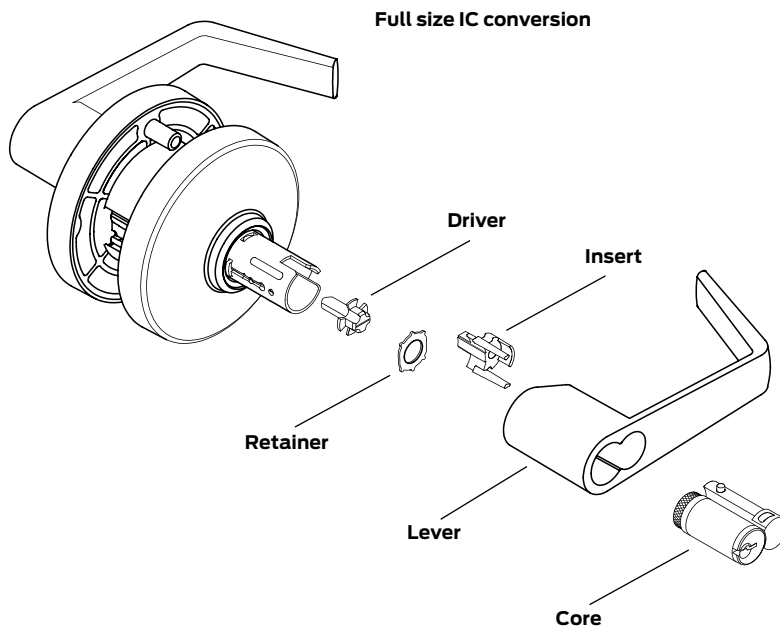
80-033 and 80-043 cores are available in A, D, E, F, G, H, J, K, L, and M keyways.

80-036 and 80-037 restricted keyway cores require a letter of authorization from the end user. Schlage assigns the keyway when establishing new Everest 29 restricted key systems.

IC conversion kits

It is easy to convert standard AL Series locksets to accept Schlage full size interchangeable cores by changing the lever and adding the parts shown.

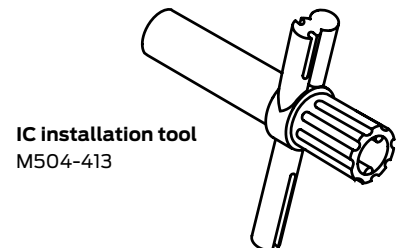
Conversion to SFIC requires different components, as well as dismantling the lockset to replace internal parts. No kits are available for this purpose.



Interchangeable core components - options

- Conversion kit: driver, retainer, lever, core *
- Conversion kit: driver, retainer, lever
- Driver, retainer
- Lever only (Saturn)*
- IC installation tool

*Specify finish.



Latches

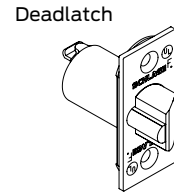
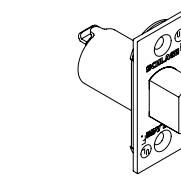
AL Series latches are adjustable for flat or beveled edge doors. Latches and strikes are furnished in brass, bronze or chrome finishes compatible with lock trim. When ordering separately, specify quantity, part number, and finish. Standard latches shown in bold type.

Latches

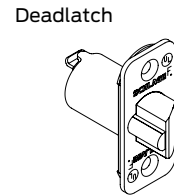
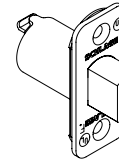
Backset	Faceplate description	Hsg dia	Deadlatch 1/2" (13 mm) throw	Springlatch 1/2" (13 mm) throw
2 3/8" (60 mm)	1" x 2 1/4" (25 mm x 57 mm) square corner	7/8" (22 mm)	11-085	11-068
	1" x 2 1/4" (25 mm x 57 mm) 1/4" (6 mm) radius round corner	7/8" (22 mm)	11-088	11-069
	1" (25 mm) circular drive-in (non-UL) 605 and 626 finishes only	1" (25 mm)	11-104	11-110
2 3/4" (70 mm)	1" x 2 1/4" (25 mm x 57 mm) square corner	7/8" (22 mm)	11-091	11-111
	1 1/8" x 2 1/4" (29 mm x 57 mm) square corner, standard	1" (25 mm)	11-096	11-116
	1" x 2 1/4" (25 mm x 57 mm) 1/4" (6 mm) radius round corner 605 and 626 finishes only	7/8" (22 mm)	11-092	11-112
	1" (25 mm) circular drive-in (non-UL)	1" (25 mm)	11-105	11-113
3 3/4" (95 mm)	1 1/8" x 2 1/4" (29 mm x 57 mm) square corner	1" (25 mm)	11-103	11-118
5" (127 mm)	Backset extension link*	7/8" (22 mm)	41-005*	

*Backset extension link 41-005 must be used with 2 3/8" backset latches.

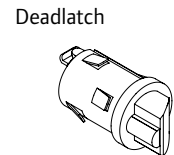
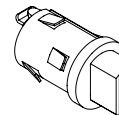
Square corner latches



Round corner latches



Drive-in latches

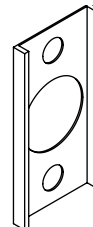


Long backsets

Backsets 5" require extension links. AL Series locks with long backsets are normally furnished with 1" faceplates and 7/8" housings. Links installed in 1" latch holes require one G506-815 sleeve (order separately) to join latch and link.

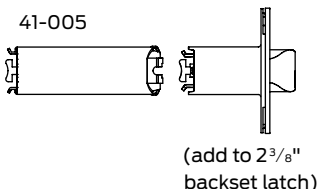
Latch front adapter

A501-878



Used to convert 1" wide square front faceplates for 1 1/8" wide door preparations. Furnished in black plastic. Order in units of 100 each.

5" extension link



Sleeve

G506-815
(order separately)



Door reinforcement

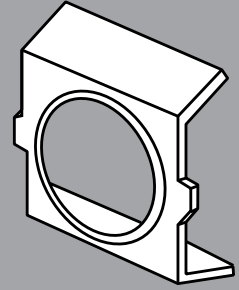
Reinforcing unit is required to reinforce and help prevent the collapse of hollow metal doors when locksets are tightly mounted. This kit should be used with long backsets for AL Series lock installations in hollow metal doors to prevent lateral movement of the latchbolt. Specify door thickness, 1³/₈" (35 mm) or 1³/₄" (44 mm), when ordering reinforcement kits.

Reinforcement kit 37-001

Kit includes:

Reinforcement

A501-566 for 1³/₄" doors or
A501-565 for 1³/₈" doors



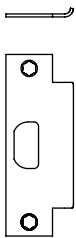
Strikes

All Schlage strikes are furnished complete with screws. The 10-025 standard AL Series strike has a 1³/₁₆" (30 mm) lip. Standard strikes shown in bold type.

ANSI strike – standard

10-025

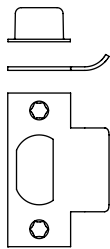
1¹/₄" x 4⁷/₈" x 3³/₃₂"
(32 mm x 124 mm x 2 mm)



T-Strike

10-001

1¹/₈" x 2³/₄" x 3³/₃₂"
(29 mm x 70 mm x 2 mm)



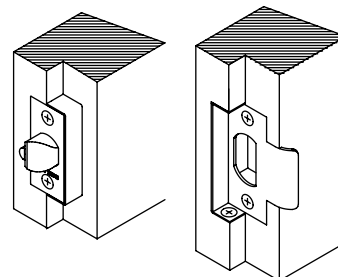
Strikes

Number	Lip length	Description
10-001	1", 1 ¹ / ₈ " (std), 1 ¹ / ₄ ", 1 ¹ / ₂ ", 1 ³ / ₄ ", 2" (25 mm, 29 mm, 32 mm, 38 mm, 44 mm, 51 mm)	1 ¹ / ₈ " x 2 ³ / ₄ " (29 mm x 70 mm) square corner, box, standard
10-004	1 ¹ / ₈ " (29 mm)	1 ¹ / ₈ " x 2 ³ / ₄ " (29 mm x 70 mm) 1 ¹ / ₈ " (3 mm) radius, round corner
10-025	1³/₁₆", 1³/₈" (30 mm, 35 mm)	1¹/₄" x 4⁷/₈" (32 mm x 124 mm) ANSI
10-026	1 ¹ / ₈ " (29 mm)	1 ⁵ / ₈ " x 2 ¹ / ₄ " (41 mm x 57 mm) full lip, square corner
10-027	1 ¹ / ₈ " (29 mm)	1 ⁵ / ₈ " x 2 ¹ / ₄ " (41 mm x 57 mm) full lip, 1 ¹ / ₄ " (6 mm) radius, round corner
10-058	1 ⁷ / ₃₂ " (31 mm)	1 ³ / ₄ " (44 mm) circular, adjustable
K510-066	—	Box for ANSI strike

*Use with 2³/₄" square corner strikes only.

Rabbeted latch and strike kit

Rabbeted latch and strike kit finishes: 606, 626. This kit adapts square corner latches and strikes for 1/2" (13 mm) rabbeted door and frame preparations.



Rabbeted latch and strike kit 39-030

Specifications

Handing:

Non-handed.

Door thickness:

1³/₈" to 1⁷/₈" (35 mm to 48 mm) standard.

2" (51 mm) optional.

Backset:

2³/₄" (70 mm) standard. 2³/₈" (60 mm), 3³/₄" (95 mm) and 5" (127 mm) optional.

Front:

Steel. 2¹/₄" x 1¹/₈" square corner, beveled, for 2³/₄" backset standard. Optional 1" square corner, 1" radius corner, and non-UL drive-in / round face. For availability with specific backsets, see page 16.

Lock chassis:

Steel, zinc dichromated for corrosion resistance

Latch bolt:

Brass, chrome plated, 1/2" throw, deadlocking on keyed and exterior functions.

Exposed trim:

Wrought brass and bronze. Levers are pressure cast zinc, plated to match finish symbols.

Strike:

ANSI curved lip strike 4⁷/₈" x 1¹/₄" x 1¹/₄" lip to center standard. Optional strikes, lip lengths and ANSI wrought strike box available. See page 17.

Cylinder and keys:

6-pin patented Everest 29 S123 keyway standard with two nickel silver keys per lock.

Keying options:

Interchangeable core and Primus® high security cylinders. Master keying, grand master keying, and construction keying.

Warranty:

Three-year limited

Certifications

ANSI:

Meets or exceeds A156.2 Series 4000, Grade 2 strength and operational requirements.

Meets A117.1 Accessibility Code.

Federal:

Meets FF-H-106C.

California State Reference Code:

(Formerly Title 19, California State Fire Marshal Standard)

All levers with a return to door of 1/2" (64 mm) or less comply.

UL / cUL:

All locks listed for A label single doors, 4' x 8'.

Letter F and UL symbol on latch front indicate listing.

UL437 Listed locking cylinder optional: specify Primus 20-500 Series cylinder.

ADA compliant:

Schlage Lock Company offers a wide selection of locks designed to meet the Americans With Disabilities Act.

About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 7,800 people and sells products in more than 120 countries across the world. Allegion comprises 23 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®.

For more, visit www.allegion.com

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CUSTOM ROLLER SHADES

Starting at: \$92.95

★★★★★ 4.4 (13) [Write a review](#)

- Exceptionally versatile styles work well with traditional or modern interiors
- Available in a wide variety of fabrics, textures and prints
- Choose fabrics to screen, filter or completely block light
- Available in 71 fabrics; fits windows 6"-144" wide and 12"-120" tall

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ROLLER SHADES - KENYA

1 Material



Bring your windows to life.

Your fabric choices have helped to customize the style of the room. Now it's time to add some innovative functionality to it. These carefree options empower you with the ability to further determine how and when light enters the room, as well as how you raise and lower the shade.



ELEGANT SHEERS

Elegant colors and textures that complement your home's décor.

Sheer fabrics filter direct, harsh sunlight and can provide a subtle backdrop or layer to your drapery.



PERFECT LIGHT CONTROL

Light Filtering fabrics allow light to softly filter into the room, and are ideal for rooms where you would like soft illumination, such as a dining room, living room or sunroom.

Room Darkening fabrics provide the perfect amount of light blocking and privacy for a bedroom, nursery and media room.

Blockout fabrics provide maximum light blocking.



SOLAR SCREENS

Solar Screens reduce glare and heat, without sacrificing the view.

Darker colors provide a more transparent view, while lighter colors provide more privacy.

All Roller Shade fabrics are also available in Panel Track for perfect coordination throughout your home.

Best for Kids



(/safety-center)

BEST FOR KIDS

For a Best for Kids certified product, make sure to select cordless control type.

Lift Options

LEVOLOR Roller Shades come standard with lift cords options and a cordless lift system as an upgrade.

CORDLESS LIFT SYSTEM

Offers a clean appearance, ease of use and peace of mind for homes with children and pets.



Valance Options

For a clean, sleek appearance that conceals the roller shade hardware, upgrade to a fabric covered valance, available in Standard or our new Cassette valance.

NONE

All roller shades are manufactured without a valance.

For a more finished look, we offer the standard valance or the cassette valance upgrade options.



STANDARD

Made in the same material as your shade, the standard valance lends a seamless and finished look to your roller shade.

For patterns where there are vertical lines, these lines will run horizontally in the valance.

For patterns where there are horizontal lines, these lines will run vertically in the valance.



CASSETTE

A cassette is an enclosed valance with a curved front panel, with a matching strip of material/fabric inserted across the face of the cassette.

The cassette comes in two sizes, determined by the size of the shade and the thickness of the fabric.

For patterns where there are vertical lines, these lines will run horizontally in the valance.

For patterns where there are horizontal lines, these lines will run vertically in the valance.

The color of the cassette is preselected to match your fabric.



shown in cordless

Decorative Scallops and Trims

The addition of scalloped hems with decorative trims or fringes is a creative way to add style to your shade. Scalloped hems add a tailored appearance - choose from 5 styles.

Trim or fringes outline the scallop - both available in 7 colors.

AVAILABLE SCALLOP STYLES



ADD A DECORATIVE TRIM



vanilla



white



gold



rose



black



cedar



gray



fringe

available in all colors.

No Charge Options

CLUTCH CONTROL SYSTEM

Allows perfect positioning of the shade at any height.

Eliminates stains and wear on the fabric.

Pull the stainless steel chain rather than the fabric.
Attach the chain guide to the window or wall for added safety.

REVERSE ROLL

Fabric is rolled so that it hangs off the front of the roll.

NOTE: Reverse roll is not available with the Cassette Valance option.

EXTENSION BRACKET

Available only on shades smaller than 60" x 70".

Pull Type Options



white



brown



black



grey

TASSELS

Color-coordinated tassels let you raise and lower your shade without touching the fabric. Colors are white, brown, black and grey (as shown above) and are pre-selected based on fabric and textures.



HANDLE

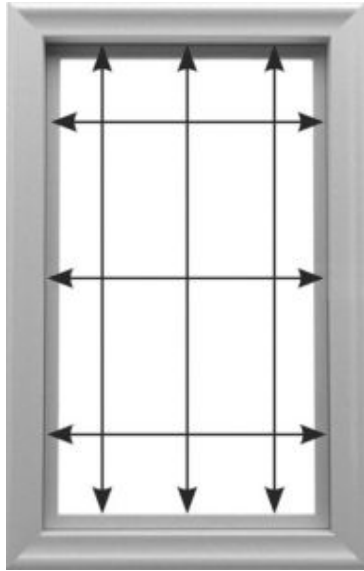
Transparent hem grip lets you raise and lower your shade without touching the fabric. Not available for scallop decorative hem.



NONE

Raise and lower your shade without tassels or the transparent handle.

How to Measure



MEASURING FOR INSIDE MOUNT ROLLER SHADES

Find Width:

Measure exact distance between inside surfaces of window frame at the top, middle, and bottom, and use the narrowest width.

Find Height:

Measure exact distance from inside surface at top of window to sill. If you prefer shade not to touch sill, deduct 1/4". If there is no sill, measure height to point where shade is to reach.

To install the product flush with the window frame, a minimum window depth of 3" is required.

tip-to-tip

Tip-to-Tip Measure is the common measure type for most roller shades. Choosing this measure type will include the headrail "pegs" that mount the shade to the wall or frame.



MEASURING FOR OUTSIDE MOUNT ROLLER SHADES

Find Width:

Measure exact distance between the outermost points where the shade is to be placed. This measurement should overlap each side of window frame by at least 1-1/2". Factory makes no deduction from your shade width dimensions.

Find Height:

Measure exact distance from where top of shade will be located to top of sill. If there is no sill or if shade is to overlap window frame, measure to point shade is to reach.

cloth-to-cloth

Cloth Measure is uncommon and should only be used for Outside Frame applications. The headrail is wider than the cloth of the shade which causes the "pegs" to extend beyond the width of the shade material. This total distance is 1-3/8" wide, or a gap of 11/16" on each side of the shade material.



Allow Some Overlap

For outside mount applications allow the shade to overlap 1-1/2" to 3" on the sides, top and bottom of the window.

You must add the overlap to your measurement; LEVOLOR does not add width or height for overlap on Outside Mounted shades.

How to Install Custom Roller Shades

Print Instructions

([//decor.scene7.com/is/content/DecorOnline/Levolor/support/install_files/CustomRollerShadeInst](http://decor.scene7.com/is/content/DecorOnline/Levolor/support/install_files/CustomRollerShadeInst)

Before you begin your installation:

READ ALL INSTALLATION INSTRUCTIONS!

Make sure that you have all tools and hardware needed for installation.

Check the installation surface (wall, ceiling, or window frame) to ensure that you have suitable fasteners and tools for the material.

Double check the headrail and shade for proper width and length. If you are installing several sets of shades, be sure to match them with the appropriate window.

Check the parts list shipped with the product to confirm that you have the correct number of brackets.

Do not remove the wrap on the roller until you have completed the installation. Leaving the shade rolled up completely will ease installation and reduce the risk of damage.

For standard roller shades, the fabric will hang off the BACK of the shade, closest to the window. For optional reverse roller shades, the fabric will hang off the front of the shade.

Be sure to note this when installing the mounting brackets.

Cassette Valances come attached to the shade. Standard Valances require some assembly.

Tools You May Need (not included):

Tape Measure

Level

Pencil

Flat-blade or Philips Head Screwdriver

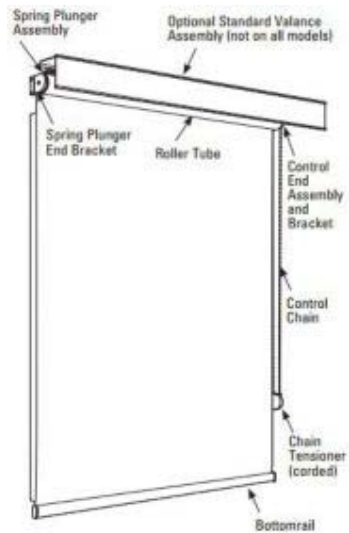
Drill with Bits (1/16" drill bit may be used to pre-drill pilot holes for screws)

Drywall Anchors

Safety glasses

Ladder

Key Parts

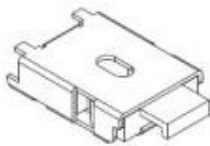


Mounting Brackets

Corded, No Cassette Valance



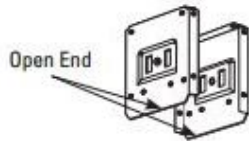
Cordless, No Cassette Valance



Cassette Valance



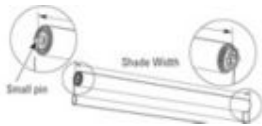
Mounting Brackets for Models with Fascia Type Valances



Step 1

Mark the bracket locations

Carefully measure the length of the shade from tip to tip. Deduct off approximately 1/4" for **corded** and 4" for **cordless** to ensure proper tensioning of the roller in the brackets.



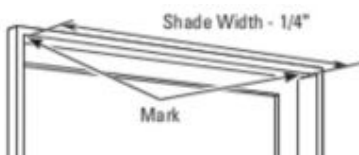
Make sure that there is enough clearance for the rolled up shade and that it will not rub or catch on the window, window frame or any obstructions when fully rolled up.

Mark this distance on the mounting surface at the desired bracket height so that it is centered in the window opening.

Outside Mount



Inside Mount



For outside mount installations, go to step 2A.

For inside mount installations, go to step 3A.

For cassette valance installations, go to step 4.

Step 2A

Install The Brackets - Outside Mount

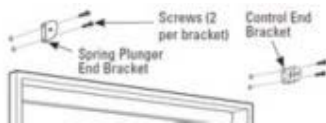
Align the notch on each bracket with the marks from Step 1 making sure they are square and spaced equally from the window.

IMPORTANT: Be sure to note the correct location of each bracket; the brackets are not interchangeable for corded.

Mark the bracket mounting hole locations.

Attach the brackets to the wall or window frame using suitable fasteners.

Corded Example: Installation on drywall using the included screws and drywall anchors (not included).



Step 2B

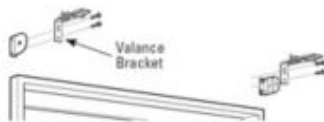
Install the valance brackets for outside-mount installations

NOTE: This step is for outside-mount installations using a standard valance ONLY.

Install the valance mounting brackets, spacing the brackets approximately 3" in from the shade brackets and making sure they are level. Any additional brackets should be spaced evenly between the ends.

Make sure there will be sufficient clearance between the roller shade and the valance.

Proceed to Step 5



Step 3A

Prepare the standard valance for inside-mount installations

NOTE: This step is for inside-mount installations using a standard valance ONLY.

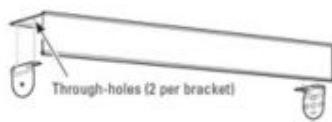
Mark the inside surface of the valance top in the same way as described in Step 1 for inside mount.

Align the notch on each bracket with the marks, making sure they are square and equally spaced from the front of the valance.

IMPORTANT: Be sure to note the correct location of each bracket; the brackets are not interchangeable for corded.

Mark the bracket mounting hole locations (use of the slotted holes in the brackets is recommended).

Carefully drill a through-hole in the valance top at each marked bracket hole location



Step 3B

Install the brackets— inside mount

Align the notch on each bracket with the marks, from Step 1 making sure they are square and spaced equally from the window.

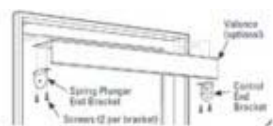
IMPORTANT: Be sure to note the correct location of each bracket; the brackets are not interchangeable for corded.

Mark the bracket mounting hole locations.

Attach the brackets to the wall or window frame using suitable fasteners. If you are installing a valance, install it between the brackets and the mounting surface using the through-holes drilled in Step 3A.

Proceed to Step 5

Corded Example: Installation on a wood window frame using the included screws and optional valance



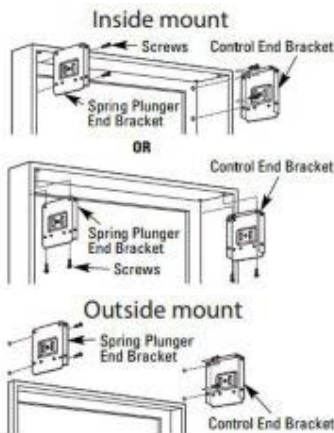
Step 3C

Special instructions for Fascia-Type Valance

This step is for installing roller shades with fascia-type valances only. For all other installations, please proceed to Step 4A.

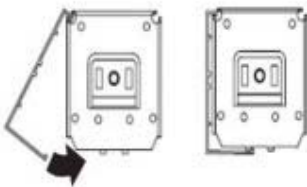
Align the shade mounting surface (the raised center portion) of each bracket with the marks, making sure each bracket is square and level.

IMPORTANT: Be sure to note the correct location and orientation of each bracket. The brackets are not interchangeable, and the open side must face down.



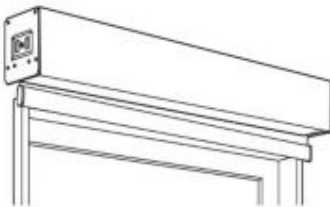
Mark the bracket mounting hole locations, two per bracket.

Attach the brackets to the wall or window frame using suitable fasteners two per bracket.



Hook the top lip of the valance over the tab on the front of the brackets.

Rotate the valance down toward the window until the valance clicks into place on the tab on the bottom of the tensioner bracket.



Step 4A

Special instructions for cassette valances

Mount the brackets to the wall or window frame, with the outside brackets no further than 2 inches (50 mm) from the ends of the headrail. On wide shades, space the additional bracket(s) at equal intervals

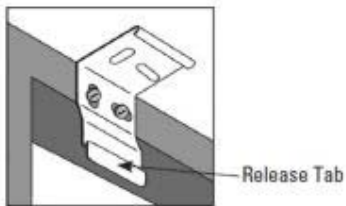
NOTE: Bracket is determined by shade size

CASSETTE 80 — Outside Mount

Locate the rear bracket holes.

Make sure the release tab is always mounted on the bottom.

Proceed to step 4B.

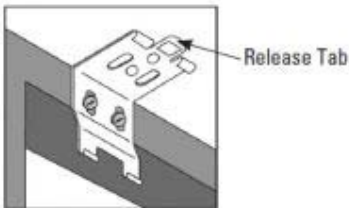


CASSETTE 120 — Outside Mount

Locate the rear bracket holes.

Make sure the release tab is always mounted on the top.

Proceed to step 4B.

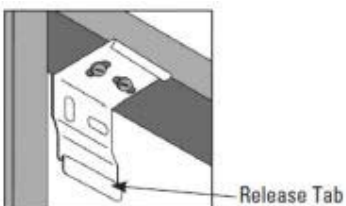


CASSETTE 80 — Inside Mount

Locate the top bracket holes.

Make sure the release tab is always mounted on the bottom.

Proceed to step 4B.

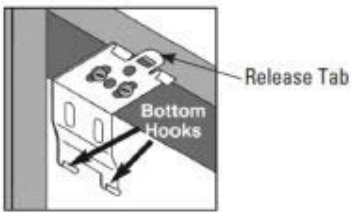


CASSETTE 120 — Inside Mount

Locate the top bracket holes.

Make sure the release tab is always mounted on the top.

Proceed to step 4B.



Step 4B

Special instructions for installing the roller shade headrail on cassette valance brackets

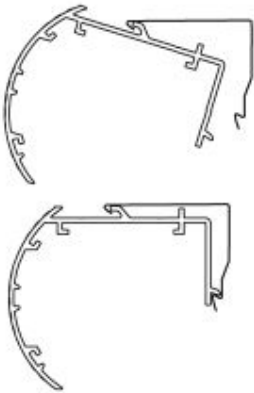
NOTE: Cassette valance size is determined by shade size.

CASSETTE 80

Position the headrail with the front panel resting on the top lip of all brackets.

Push the bottom front of the headrail firmly backwards and toward the window until the lip on the rear of the headrail engages the bracket and snaps into place.

Proceed to step 7.

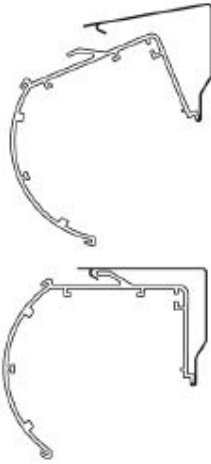


CASSETTE 120

Position the headrail with the back panel resting on both bottom hooks of all brackets.

Push the front of the headrail firmly upwards and toward the window until the groove at the top of the headrail snaps into place.

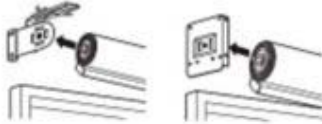
Proceed to step 7.



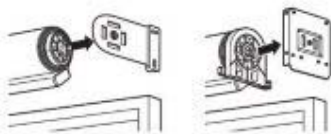
Step 5

Install the roller shade on the corded brackets

Insert the pin on spring plunger into the hole on the bracket and press the shade into the bracket, depressing the plunger.

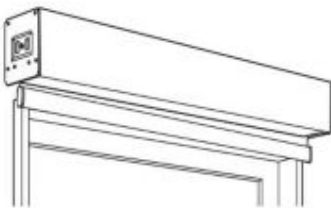


Align the T-shaped holes in the control-end bracket with the tabs on the control end of the roller and the hook pointing down, as shown. Press down to lock the center hook into place.



If your roller shade includes bracket cover caps, press them onto the brackets as shown below.

Specialty option for outside mount shades, chosen at time of purchase.



cordless brackets

Push the clear tab on the bracket and pop the headrail in.
Remove the shipping wrapper from around the roller.



For outside mount standard valances, go to step 6.

Otherwise go to step 7.

Step 6A

Install outside mount valances (not for all models)

If your valance does not include returns, skip to 6B

For valances with wraparound returns:

Remove the tape from the fabric on the back of the valance and make sure the fabric extends equally on either end of the valance.

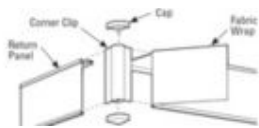
Slide the corner clip onto a return panel. The tab will fit into the channels on the back of the return panel.

Slide the assembled return panel onto one end of the valance. The tab will fit into the channels on the back of the valance, and the valance top will fit into the channel on the top of the return panel.

Wrap the fabric around the end of the return panel.

Press the caps into place.

Repeat for the other end. Once both returns are installed, pull the fabric taut to remove wrinkles and secure to the backs of the returns with masking tape



Step 6B

Install outside mount valances (for models without returns)

Attaching the valance to the valance brackets

Centering the valance over the roller shade, slide the top of the front valance panel into the valance clips until it locks into place. You can adjust the valance spacing from the wall by loosening the wingnuts on the valance brackets.



Step 7

Attach the tension device (corded only)

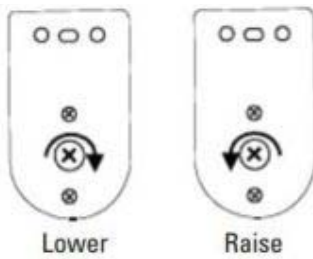
Refer to instructions in the hold-down tension device.



Step 8

Adjust bottomrail stop (cordless only)

With the shade fully retracted, use a flat head screwdriver to adjust the bottomrail to desired height. *IMPORTANT: Make the adjustment on the right side for standard roll and left side for reverse roll.



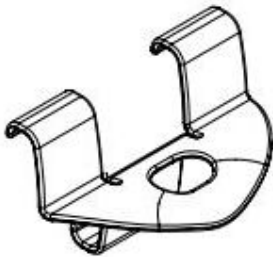
Step 9

Install Cordless bottom rail handle (cordless control only)

Locate the clear, cordless bottom rail handle that arrived with your shade.

Insert the front lip of the bottom rail handle into the top of the bottom rail of the shade.

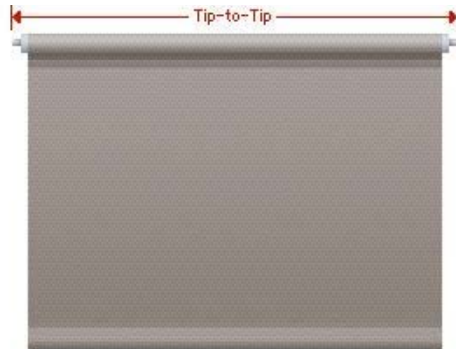
The handle will snap into place.



Roller Shades Guide

MEASURING TYPES

Tip-to-Tip



Tip-to-Tip Measure is the common measure type for most roller shades. Choosing this measure type will include the headrail "pegs" that mount the shade to the wall or frame.

Cloth-to-Cloth



Cloth Measure is uncommon and should only be used for Outside Frame applications. The headrail is wider than the cloth of the shade which causes the "pegs" to extend beyond the width of the shade material. This total distance is 1-3/8" wide, or a gap of 11/16" on each side of the shade material.

NOTE: For outside mount applications allow the blind to overlap 1-1/2" to 3" on the sides, top and bottom of the window. You must add the overlap to your measurement; LEVOLOR does not add width or height for overlap on Outside Mounted shades.

CRITICAL DIMENSIONS

Cordloop

Cordloop length is 3/4 the length of the shade, unless otherwise specified.

Scalloped Option

Scalloped hem adds approximately 4" to the length of the roller shade and does not roll up into the shade.

Specifications and Deductions

Width		Length		Tolerances	
Minimum	Maximum	Minimum	Maximum	Width	Length
6"	144"	12"	120"	1/16"	1/2"

Fabric Width Reduction	Control Options	Universal Brackets	Extension Brackets
Up to 1-1/8"	Left or Right	Yes	1-1/8"

Mounting Depths and Deductions

	No Valance	Standard Valance	Cassette Valance
Minimum Installation Depth	3"	3"	3"
Flush Mount Installation Depth	3-1/2"	3-1/2"	3-3/4"
Fabric Width Deductions	1-1/8"	1-1/8"	1-1/2"
Width Tolerances	1/16"	1/16"	1/16"
Length Tolerances	1/2"	1/2"	1/2"

Valance Height	N/A	3-1/2"	Sm - 2-1/2" Lg - 4-1/16"
Extension Bracket	1-1/8"	1-1/8"	N/A

Standard Factory Deductions from Ordered Width

	Cordless	Corded
Inside Mount	Up to 1-1/8"	Up to 1-1/2"
Outside Mount - Tip to Tip	Up to 3/4"	Up to 1"

RECOMMENDED CLEANING METHODS

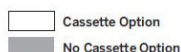
Care Instructions

A brush-type vacuum attachment or feather duster should be used for cleaning. If your shade should become stained, you may clean it by dabbing the spot with a sponge dampened with lukewarm water. Avoid contact with window cleaning products as these may discolor your shade. Ultrasonic cleaning is not recommended or covered by our warranty.

Color Variation and Fabric Repeat Information

Color lot variations may occur due to the process of color application. For the best color match, order all shades for a room at the same time. Pattern availability and color lot match between orders cannot be assured. Any variation in color is in accordance with industry standards.

Cassette Limitations



Width to 36"	42"	48"	54"	64"	72"	78"	84"	96"	108"	120"	132"	144"	
Height to 36"													
42"													
48"													
54"													
60"													
66"													
72"													
78"													
84"													
96"													
108"													
120"													

Applies to Collections
 Designer Textures
 Confetti
 Sheer Stria
 Watermark

Price Group
 A + B
 C
 D
 D

Width to 36"	42"	48"	54"	64"	72"	78"	84"	96"	108"	120"	132"	144"	
Height to 36"													
42"													
48"													
54"													
60"													
66"													
72"													
78"													
84"													
96"													
108"													
120"													

Applies to Collections
 Boucle Stripe
 Solar Screen 10
 Solar Screen 5
 Solar Screen Tweed
 Contemporary Blockout
 Meditation Metallic Print
 Sheer Infinity
 Tropical Metallic Print

Price Group
 B
 B
 B
 C
 D
 D
 D
 D

Width to 36"	42"	48"	54"	64"	72"	78"	84"	96"	108"	120"	132"	144"	
Height to 36"													
42"													
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54"													
60"													
66"													
72"													
78"													
84"													
96"													
108"													
120"													

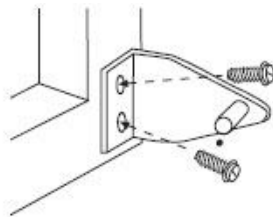
Applies to Collections
 Solar Screen 3
 Lemongrass Stripe
 Solar Screen Seed Stitch
 Solar Screen Tides
 Tweed Rattan
 Woven Screen
 Solar Screen Grasses
 Solar Screen Herringbone
 Pleated Sheer

Price Group
 B
 C
 C
 C
 C
 C
 D
 D
 D

NOTE: Cassette option not available with reverse roll.

Hold-Down Brackets

Hold-Down Brackets are available for securing the bottomrail in position
These brackets can stop a shade from bouncing and loosely swinging if the shade is hung on a door
Available only on outside mount



Extension Brackets

Extension brackets are available for outside mount shades

When the shade must operate around an obstruction, these brackets project the shade away from the wall, allowing easy operation

Not available with hold-down brackets

Available only on shades smaller than 60" x 70"

Bracket Projection: 2" (fixed)

LEVOLOR® LIMITED LIFETIME WARRANTY FOR CUSTOM BLINDS AND SHADES

WARRANTY COVERAGE

WHAT IS COVERED

LEVOLOR extends a limited lifetime warranty on the enclosed product to the original residential retail purchaser only if the product was properly installed and remains in the original window.

The product is covered against manufacturing defects (i. e., a flaw in the product design, materials or workmanship that causes the product to no longer function) and has a limited lifetime warranty. Lifetime warranty extends for the life of the product as defined by category below:

Product	From Date of Manufacture
Accordia™ Cellular Shades	10 years
Roman Shades	10 years
Roller Shades	10 years
Natural Shades	10 years
Panel Track Shades	10 years
Real Wood Blinds	10 years
Faux Wood Blinds	10 years
Metal Blinds	10 years
Textured Blinds	3 years
Vertical Blinds	10 years (with the exception of vertical vinyl vanes)
Vertical Vinyl Vanes	3 years

WHAT IS NOT COVERED

Normal wear and tear

Any product that fails due to:

- abuse
- accident
- alterations
- damage from pets/insects
- exposure to salt air
- extraordinary use
- improper cleaning
- improper handling
- improper installation
- improper operation
- misapplication
- misuse

Any product that, with the passage of time, exhibits:

- loss of color intensity (including, but not limited to fabric, plastic parts, and wood finishes)
- loss of pleating if product is not held in raised position a portion of the time
- yellowing or cracking of plastic parts or faux wood product
- creeping, sagging, or billowing of cordless product that is not properly raised and lowered daily

Natural material (including, but not limited to wood, grass, jute, reeds) products that have:

- variation in color, grain, or texture
- warping or cracking of wood slats in high-humidity and/or in high-heat areas

Costs associated with:

- product removal
- product remeasure
- product reinstallation
- transportation to and from the retailer
- incidental or consequential damages

- shipping
- brand label removal

In the event there are multiple blinds/shades in the same room, only the defective blind/shade will be replaced.

TO REPORT SHIPPING DAMAGE

If damage occurred during shipping, call 1-800-538-6567 and report within 14 calendar days of delivery or you may be denied credit for your damaged product.

TO OBTAIN SERVICE

For online product-specific trouble shooting information, refer to **www.LEVOLOR.com**. ([//www.levolor.com](http://www.levolor.com)) If you suspect this LEVOLOR product has a manufacturing defect in materials or workmanship:

1. Locate the sales receipt (proof of purchase)
2. Call 1-800-538-6567

Any unauthorized returns will not be accepted.

WARRANTY REMEDY

THIS SHALL BE YOUR SOLE REMEDY UNDER THIS LIMITED WARRANTY

If this LEVOLOR product is found to have a manufacturing defect in materials or workmanship, we will (at our discretion) do one of the following:

- repair the product
- replace the product
- refund the cost of the product

Colors vary from lot to lot and may not exactly match sample swatch or previous purchases

Discontinued items or color selections will be replaced with the closest equivalent current product

YOUR RIGHTS UNDER STATE OR PROVINCIAL LAW

This limited lifetime warranty gives you specific legal rights, and you may have other rights, which vary from state to state/province to province. Some states/provinces do not allow limitations on how long a warranty lasts, so the above limitations may not apply to you.

No agent, representative, dealer, or unauthorized employee has the authority to increase or alter the obligation of this warranty. This limited lifetime warranty supersedes any previous versions.

PRINT AND SAVE THIS WARRANTY CARD WITH YOUR PROOF OF PURCHASE

([//decor.scene7.com/is/content/DecorOnline/Warranty/Levolor_Warranty_Card.pdf](http://decor.scene7.com/is/content/DecorOnline/Warranty/Levolor_Warranty_Card.pdf))

PRICING MATRIX

WINDOW AND DOOR			
Product Description		UOM	Price
Blinds	Aluminum Blinds 1-56 Sq Ft	Each	\$995.50
Blinds	Aluminum Blinds 57-113 Sq Ft	SF	\$10.75
Blinds	Aluminum Blinds 114-168 Sq Ft	SF	\$8.25
Blinds	Vertical Blinds 1-190 Sq Ft	SF	\$34.25
Blinds	Faux Wood Blinds 1-100 Sq Ft	SF	\$21.50
Blinds	Wood Blinds 1-50 Sq Ft	SF	\$47.50
Blinds	Wood Blinds 51-100 Sq Ft	SF	\$39.75
Blinds	Solar Power 1-40 Sq Ft	SF	\$59.75
Blinds	Solar Power 41-80 Sq Ft	SF	\$39.75
Blinds	Solar Power 81-120 Sq Ft	SF	\$27.25
3M Commercial Window Film	Sun Control Commercial Window Film	SF	\$7.25
3M Commercial Window Film	Safety & Security Commercial Window Film	SF	\$17.25
3M Commercial Window Film	Daylighting Commercial Window Film	SF	\$13.50
3M Commercial Window Film	Decorative Commercial Window Film	SF	\$27.25
Locksets	Rose - Entrance/Office (Stain Stainless Steel)	Each	\$1,015.50
Locksets	Rose - Passage (Satin Stainless Steel)	Each	\$795.50
Locksets	Rose - Privacy (Satin Stainless Steel)	Each	\$995.50
Locksets	Rose - Classroom (Satin Stainless Steel)	Each	\$1,015.50

PRICING MATRIX

WINDOW AND DOOR			
Product Description		UOM	Price
Locksets	Rose - Classroom Intruder (Satin Stainless Steel)	Each	\$1,215.50
Locksets	Rose - Storeroom (Satin Stainless Steel)	Each	\$1,015.50
Locksets	Eschutcheon - Entrance/Office (Satin Chrome)	Each	\$1,005.50
Locksets	Eschutcheon - Passage (Satin Chrome)	Each	\$825.50
Locksets	Eschutcheon - Privacy (Satin Chromel)	Each	\$1,005.50
Locksets	Eschutcheon - Classroom (Satin Chrome)	Each	\$1,015.50
Locksets	Eschutcheon - Classroom Intruder (Satin Chrome)	Each	\$1,215.50
Locksets	Eschutcheon - Storeroom (Satin Chrome)	Each	\$1,015.50
Locksets	Rose - Entrance/Office (Satin Chrome)	Each	\$1,190.71
Locksets	Rose - Passage (Satin Chrome)	Each	\$995.50
Locksets	Rose - Privacy (Satin Chromel)	Each	\$1,350.50
Locksets	Rose - Classroom (Satin Chromel)	Each	\$1,390.50
Locksets	Rose - Classroom Intruder (Satin Chrome)	Each	\$1,540.50
Locksets	Rose - Storeroom (Satin Chrome)	Each	\$1,390.50
Ancillary Application	Window Treatment Installation	Hour	\$120.00
Ancillary Application	Window Installation	Unit	\$750.00
Ancillary Application	Door Installation	Unit	\$950.00
Ancillary Application	Finish Carpenter	Hour	\$110.00

SPECIFICATIONS/ PRICING MATRIX

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3M™ Nomad™ Heavy Traffic Carpet Matting 8850

Dual-fiber carpet matting for indoor applications



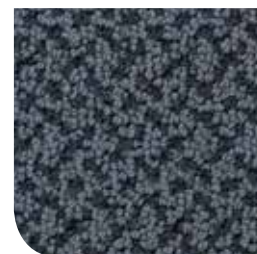
CleanZones™ — 2, 3

**Designed for HEAVY traffic conditions
Up to 1,000,000 people/year**

- Combines nylon fibers for drying and polypropylene fibers for superior scraping
- Dual-fiber and random pattern hide salt, dirt and debris until it can be removed
- Solution-dyed fibers resist fading and staining and keep the mat looking good longer
- Flexion vinyl backing will not stain floor and prevents dirt and moisture from reaching the floor
- Low profile allows foot, cart and wheelchair traffic to move easily over the mat



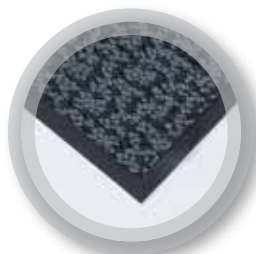
Black



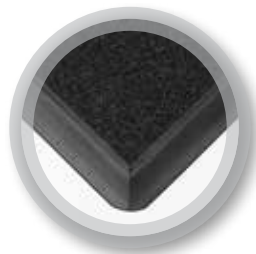
Sterling



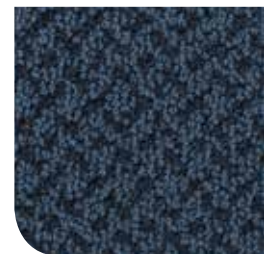
Dark Brown



Standard Edging
4-sided factory edge
on all standard sizes



Custom Edging
4-sided premium high-
traffic wide cove nosing



Navy

PRODUCT SPECIFICATIONS

Roll Sizes

3', 4', 6' x 60'

Standard Mat Sizes

3' x 5', 3' x 10', 4' x 6', 4' x 10', 6' x 10'

Semi-Custom Sizes

3', 4' and 6' widths x custom lengths up to 60'

Custom Sizes

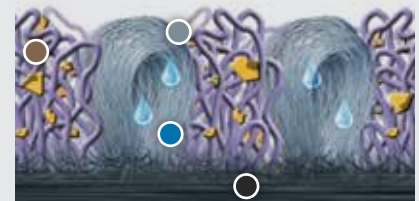
Any width x any length

See custom edging options on page 30

Warranty

1 year: replacement

- Loops arranged in random patterns hide more soil
- Large fibers remove dirt
- Small fibers absorb excess water
- Flexion vinyl backing protects floors from dirt and helps reduce mat movement



Easy to Clean
Vacuum and periodic extraction

LEGACY

FEATURES	ZONES	1	2	3	4
<p>Patented hybrid product installs like a carpet and performs like a foot grille</p> <p>Can be cut to measure in any direction without fraying</p> <p>Combines top-of-the-line fibers that both scrape dirt and absorb moisture</p> <p>Inserts integrate with a variety of design schemes</p> <p>Common Uses—high traffic vestibules and foyers in retail stores, malls, office buildings, sports facilities, hotels, schools</p>					
SPECIFICATIONS 					
Material Polypropylene Base Grid and Premium Polyamide Nylon Fibers (6.6) with 5.63% post-consumer recycled content		Weight 103 oz/sq yd			
Backing Anti-slip rubber		Thickness 9/16"			
Size 6' 7" x 65' 5" – to accommodate rib repeat in multiple applications, figure material at 6' 5"		Pattern Repeat			
Custom Sizes 6' 7" width x lengths to 65' 5"		Recommended Installation Loose lay–Ultra Flex Nosing Glue down–Mats Inc. Multi-Bond Adhesive			
		Custom Colors Other non-stocking colors available; minimums may apply			
POSSIBLE LEED V 2009 CREDITS					
MR Credit 4 (1-2 points)		IEQ Credit 4.1 (1 point) IEQ Credit 5 (1 point)			
POSSIBLE LEED V 4 CREDITS					
MR Sourcing of Raw Materials (up to 2 points) IEQ Enhanced Indoor Air Quality Strategies (up to 2 points) IEQ Low-Emitting Materials (up to 3 points)					

ROLL WIDTH	ROLL LENGTH
6' 7"	65' 5"



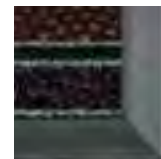
Cool Gray



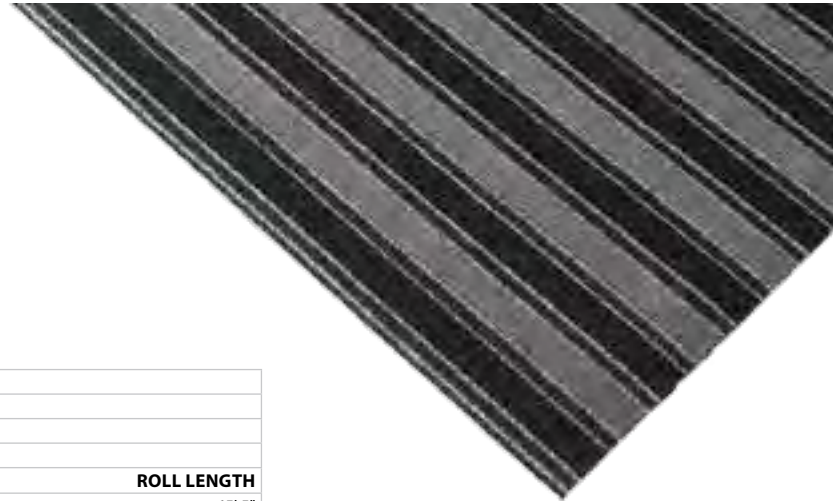
Bright Carbon



Fall Brown



Ultra-Flex Nosing



SOLIRIS™

Remarkable slip resistance in wet areas with heavy traffic

FEATURES	ZONES	1	2	3	4
----------	-------	---	---	---	---

Vibrant flooring that provides slip resistance, beauty and comfort for barefoot and soft-soled foot traffic in areas where topical water is present

The brilliant color palette can be used to create bold designs or custom logos

UV and chlorine resistant for a long-lasting, easy-to-maintain appearance

Can be loose-layed and used as a mat

Common Uses—poolside, water parks, showers, locker rooms, hydrotherapy rooms

SPECIFICATIONS

Material

Sheet vinyl with 16.5% recycled content

Roll Sizes

6' x 66'

Thickness

2.9mm (~1/8")

Custom Sizes

6' width x custom lengths up to 66'

Weight

0.63 lbs/sq ft

Critical Radiant Flux (ASTM E648)

Class 1

Slip Resistance (ASTM D2047)

0.93 dry, 0.80 wet

Chemical Resistance (ASTM F925)

No Change

POSSIBLE LEED V 2009 CREDITS

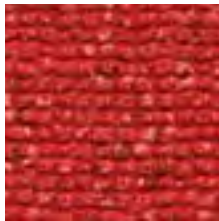
MR Credit 4 (1-2 points)

POSSIBLE LEED V 4 CREDITS

MR Sourcing of Raw Materials (up to 2 points)



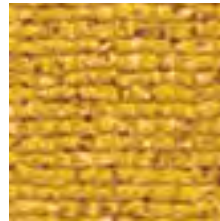
Pink



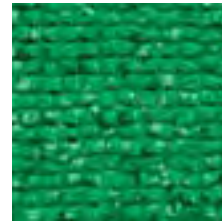
Red



Orange



Yellow



Meadow Green



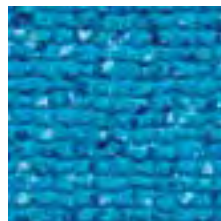
Gator Green



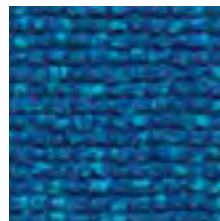
Evergreen



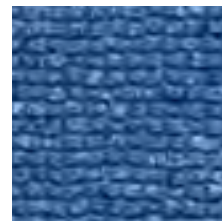
Turquoise



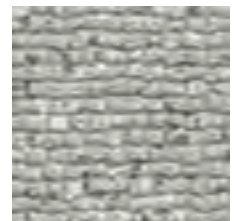
Aqua



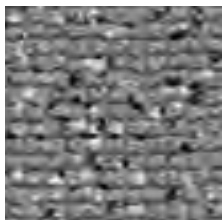
Royal Blue



Periwinkle



Gray



Dark Gray



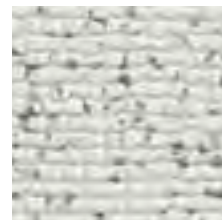
Sand



Gravel



Black



White

SPECIFICATIONS

DROPZONE

Droptile

Droptile is an elevated rubber tile system that is designed for comfort, impact noise reduction, and durability. It is ideal for areas where free weights and heavy exercise equipment are common.



Warranty Protection

- 15-year comprehensive product coverage. Refer to sample warranty document for complete coverage details.

Environmental Facts

- For environmental facts, visit: tarkettportsindoor.com/en/specs-and-data/environmental-fact-sheets.

Maintenance Instructions

- For a complete maintenance guide, visit: tarkettportsindoor.com/en/specs-and-data/care-and-maintenance.

Installation Method

- Hidden Dowel Locking System: Each Droptile is connected using a hidden dowel system, fastening each tile together. This method of installation creates a seamless visual effect and secures each tile. Since Droptile has a 1" thickness, profile reducers are used on the edges of the installation to transition to lower profile areas. No adhesive is required in installation, however the system can be adhered if desired.

Technical Characteristics

Property	Standard	Value
Reaction to Fire	ASTM E648	Passed (Radiant Panel)
Slip Resistance	ASTM D2047	> 0.9
Tensile Strength	ASTM D412	200 psi
Impact Insulation	ASTM E492-04	49
Sound Transmission	ASTM E413	51
Noise Reduction	ASTM C423	0.10 Sabine Per Square Foot
Taber Abrasion	ASTM D3389	Maximum 0.1 mg per cycle
Static Load	ASTM F970 (modified)	400 psi
Elongation	ASTM D412	40%
Flexibility	ASTM F137	Pass 1/4" Mandrel
Wear Surface Material	—	Rubber/EPDM Rubber
Base Layer Material	—	Natural, SBR Blend, and Recycled Rubber
Surface Texture	—	Slight (Slip Resistant)
Thickness	—	1"
Tile Dimensions	—	24" x 24"
Weight	—	19.5 kg/m ² (4 lbs./sq. ft.)
Profile Reducer Dimensions	—	48" x 4" x 1"

Compatible substrates include: properly constructed and prepared concrete, wood, asphalt, and cementitious underlayments. Refer to current installation guidelines, ASTM F710, ACI 302.2R, and other industry standard recommendations for more information. Tarkett Sports reserves the right to modify these specifications without affecting their compliance with standards. Some results may vary in relation to certain flexibilities found within specified testing procedures and manufacturing tolerances.

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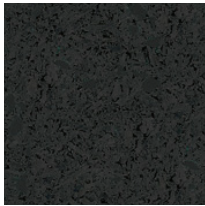


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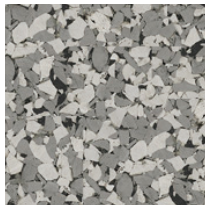
11/11/15



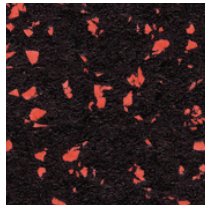
Available Colors for Droptile



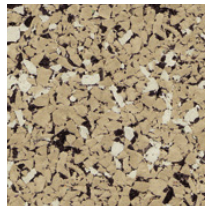
Black DZ00



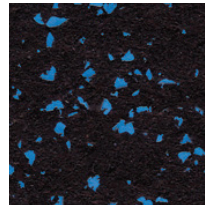
Steel DZ15



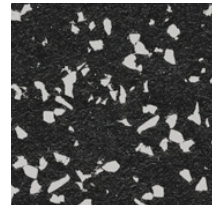
Fire Fly DZ47



Desert DZ43



Deep Ocean DZ45



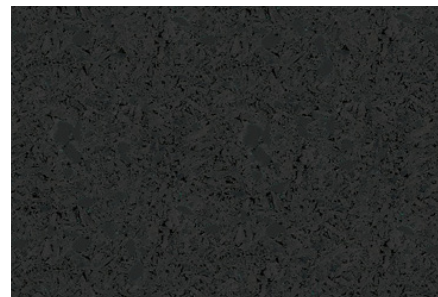
Smoke DZ46

The colors presented here are representations only. An actual sample is recommended for exact color evaluation and matching.

SPECIFICATIONS

DROPZONE 8 mm

Dropzone is an 8 mm rubber surface made from 92% recycled content. It is intended for weight room and fitness areas and is available in rolls, square-edge tiles, and interlocking tiles.



Warranty Protection

- 3-year comprehensive product coverage. Refer to sample warranty document for complete coverage details.

Environmental Facts

- For environmental facts, visit: tarkettsportsindoor.com/en/specs-and-data/environmental-fact-sheets.

Maintenance Instructions

- For a complete maintenance guide, visit: tarkettsportsindoor.com/en/specs-and-data/care-and-maintenance.

Installation Methods

- Full Adhesive: full glue installation using Tarkett's solvent-free Multi-Poxy adhesive over the entire surface area (moisture tolerance: 92% RH per ASTM F2170)
- Tarkolay: installation over Tarkolay moisture barrier (moisture tolerance: 98% RH per ASTM F2170). This method is only available for rolled material.
- Interlocking Tile: installation without adhesive using interlocking tiles

Technical Characteristics

Property	Standard	Value
Slip Resistance	ASTM D2047	> 0.9
Tensile Strength	ASTM D412	200 psi
Impact Insulation	ASTM E492-04	54
Sound Transmission	ASTM E413-04	54
Noise Reduction	ASTM C423-08a	0.1
Static Load Tolerance	ASTM F970 (modified)	400 psi
Elongation	ASTM D412	75%
Flexibility	ASTM F137	Passed
CA Section 01350 Compliance	ASTM D5116	Passed
Chemical Resistance	ASTM F925	Excellent
Surface Texture	—	Slight
Thickness	—	8 mm (0.315")
Interlocking Tile Dimensions	—	24" x 24", 23" x 23"
Square-Edge Tile Dimensions	—	36" x 36", 24" x 24"
Standard Roll Dimensions	—	4' x 30'
Weight	—	8.4 kg/m ² (1.73 lbs./sq. ft.)

Compatible substrates include: properly constructed and prepared concrete, wood, asphalt, and cementitious underlayments. Refer to current installation guidelines, ASTM F710, ACI 302.2R, and other industry standard recommendations for more information. Tarkett Sports reserves the right to modify these specifications without affecting their compliance with standards. Some results may vary in relation to certain flexibilities found within specified testing procedures and manufacturing tolerances.

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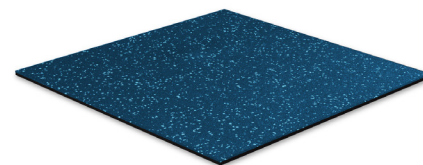
TAB C-Flooring
601

SPECIFICATIONS

DROPZONE

Comfort 14.5 mm

Dropzone Comfort 14.5 mm is a rubber surface with EPDM color chips that is intended for walking/jogging tracks and other fitness applications. It is designed for durability and comfort.



Warranty Protection

- 3-year comprehensive product coverage. Refer to sample warranty document for complete coverage details.

Environmental Facts

- For environmental facts, visit: tarkettsportsindoor.com/en/specs-and-data/environmental-fact-sheets.

Maintenance Instructions

- For a complete maintenance guide, visit: tarkettsportsindoor.com/en/specs-and-data/care-and-maintenance.

Installation Methods

- Full Adhesive: full glue installation using Tarkett's solvent-free Multi-Poxy adhesive over the entire surface area (moisture tolerance: 92% RH per ASTM F2170)
- Tarkolay: installation over Tarkolay moisture barrier (moisture tolerance: 98% RH per ASTM F2170).

Technical Characteristics

Property	Standard	Value
Slip Resistance	ASTM D2047	> 0.9
Tensile Strength	ASTM D412	200 psi
Impact Insulation	ASTM E492-04	54
Sound Transmission	ASTM E413-04	54
Noise Reduction	ASTM C423-08a	0.1
Static Load Tolerance	ASTM F970 (modified)	0.009" (Typical)
Thermal Conductivity	ASTM C518	> 0.4
Color Stability	ASTM F1515	Good
CA Section 01350 Compliance	ASTM D5116	Passed
Chemical Resistance	ASTM F925	Good
Surface Texture	—	Slight
Total Thickness	—	14.5 mm (0.571")
Surface Thickness	—	2.5 mm (0.098")
Cushion Thickness	—	12 mm (0.472")
Roll Length	—	25' to 100'
Roll Width	—	4' (± 0.75")
Weight	—	11.4 kg/m ² (2.34 lbs./sq.ft.)

Compatible substrates include: properly constructed and prepared concrete, wood, asphalt, and cementitious underlayments. Refer to current installation guidelines, ASTM F710, ACI 302.2R, and other industry standard recommendations for more information. Tarkett Sports reserves the right to modify these specifications without affecting their compliance with standards. Some results may vary in relation to certain flexibilities found within specified testing procedures and manufacturing tolerances.

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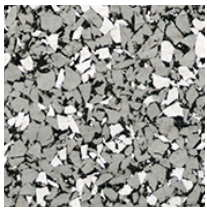


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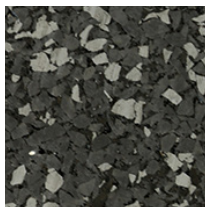
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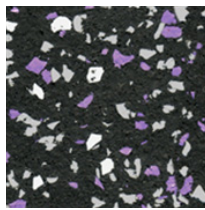
Available Colors for Dropzone Comfort 14.5 mm



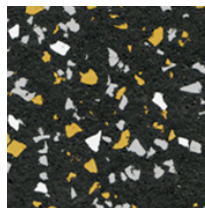
Steel DZ15



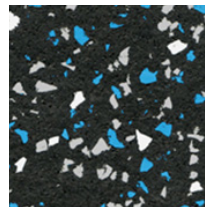
Dark Grey DZ502



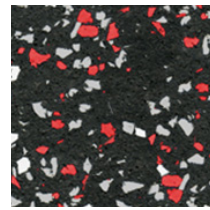
Purple DZ101



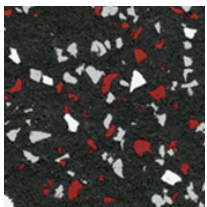
Gold Mix DZ102



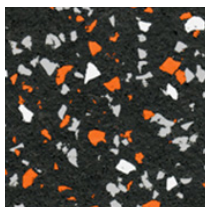
Sky Blue DZ103



Red DZ104



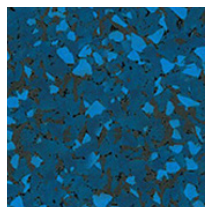
Dark Red DZ105



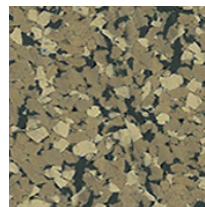
Orange DZ106



Green DZ107



Cobalt Blue DZ500



Desert DZ43



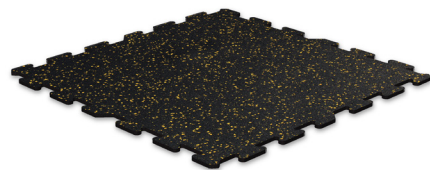
Sand DZ100

The colors presented here are representations only. An actual sample is recommended for exact color evaluation and matching.

SPECIFICATIONS

DROPZONE Speckle

Dropzone Speckle is an 8 mm rubber surface with EPDM color chips that is intended for weight room and fitness areas. It is available in rolls, square-edge tiles, and interlocking tiles.



Warranty Protection

- 3-year comprehensive product coverage. Refer to sample warranty document for complete coverage details.

Environmental Facts

- For environmental facts, visit: tarkettsportsindoor.com/en/specs-and-data/environmental-fact-sheets.

Maintenance Instructions

- For a complete maintenance guide, visit: tarkettsportsindoor.com/en/specs-and-data/care-and-maintenance.

Installation Methods

- Full Adhesive:** full glue installation using Tarkett's solvent-free Multi-Poxy adhesive over the entire surface area (moisture tolerance: 92% RH per ASTM F2170)
- Tarkolay:** installation over Tarkolay moisture barrier (moisture tolerance: 98% RH per ASTM F2170). This method is only available for rolled material.
- Interlocking Tile:** installation without adhesive using interlocking tiles

Technical Characteristics

Property	Standard	Value
Slip Resistance	ASTM D2047	> 0.9
Tensile Strength	ASTM D412	200 psi
Impact Insulation	ASTM E492-04	54
Sound Transmission	ASTM E413-04	54
Noise Reduction	ASTM C423-08a	0.1
Static Load Tolerance	ASTM F970 (modified)	400 psi
Elongation	ASTM D412	75%
Flexibility	ASTM F137	Passed
CA Section 01350 Compliance	ASTM D5116	Passed
Chemical Resistance	ASTM F925	Excellent
Surface Texture	—	Slight
Thickness	—	8 mm (0.315")
Interlocking Tile Dimensions	—	24" x 24", 23" x 23"
Square-Edge Tile Dimensions	—	36" x 36", 24" x 24"
Standard Roll Dimensions	—	4' x 30'
Weight	—	8.4 kg/m ² (1.73 lbs./sq. ft.)

Compatible substrates include: properly constructed and prepared concrete, wood, asphalt, and cementitious underlayments. Refer to current installation guidelines, ASTM F710, ACI 302.2R, and other industry standard recommendations for more information. Tarkett Sports reserves the right to modify these specifications without affecting their compliance with standards. Some results may vary in relation to certain flexibilities found within specified testing procedures and manufacturing tolerances.

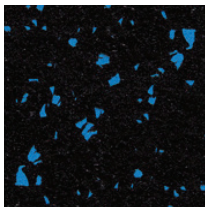
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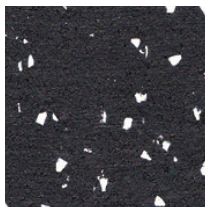
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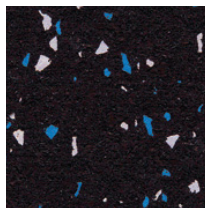
Available Colors for Dropzone Speckle



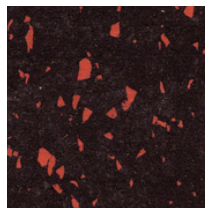
Blue DZ01



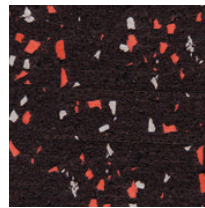
Grey DZ02



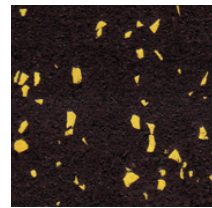
Blue Grey DZ04



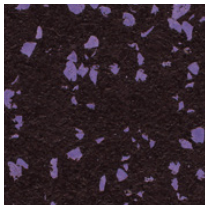
Fire Red DZ05



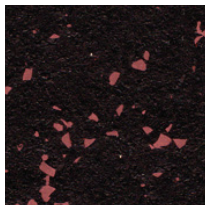
Ember DZ06



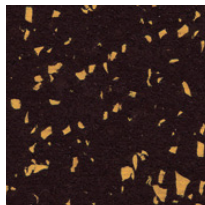
Yellow DZ07



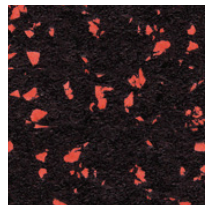
Plum DZ09



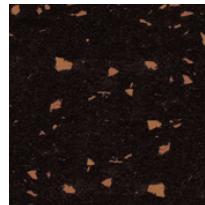
Burnt Red DZ21



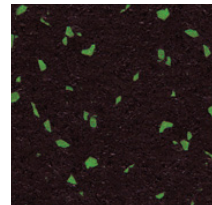
Gold DZ23



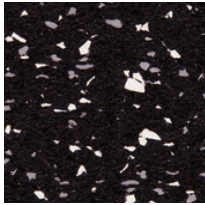
Fire Fly DZ47



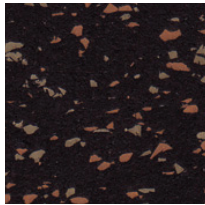
Earth DZ30



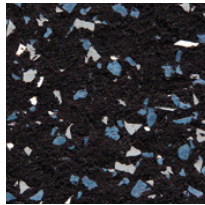
Field Green DZ32



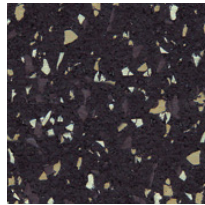
Glacier Grey DZ34



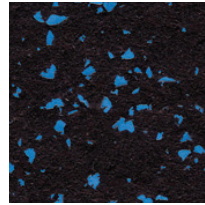
Gold Mine DZ36



Cold Sweat DZ38



Training Ground DZ40



Deep Ocean DZ45



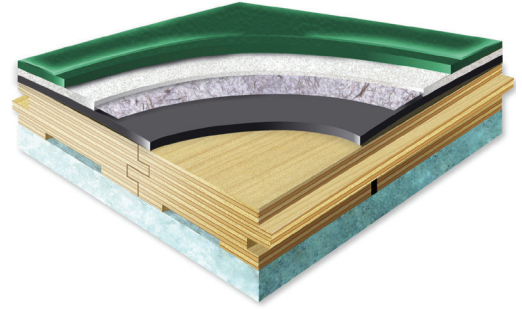
Black DZ00

The colors presented here are representations only. An actual sample is recommended for exact color evaluation and matching.

COMPACT

2.0 mm Lumaflex

Compact 2.0 mm with Lumaflex is a combination system incorporating the Compact surface, a tongue-and-groove layer of 18 mm birch plywood, and shock-absorbing foam.



Warranty Protection

- 10 year product coverage and 15 year wear layer coverage. Refer to sample warranty document for complete coverage details.

Environmental Facts and LEED

- For environmental facts and LEED credits, visit: tarkettsportsindoor.com/en/specs-and-data/environmental-fact-sheets and tarkettsportsindoor.com/en/specs-and-data/leed-information.

Maintenance Instructions

- For maintenance instructions, please refer to the Omnisports maintenance guide at the following link: tarkettsportsindoor.com/en/specs-and-data/care-and-maintenance.

Foam Underlayment Options

- Lumaflex shock-absorbing foam underlayment has a height of 1/2". Layers of foam cushion can be stacked to meet almost any profile requirement.

Sports Characteristics

Property	Standard	Value
Surface Finish Effect	ASTM F2772-11	Passed
Force Reduction	ASTM F2772-11	Class 4
Vertical Deformation	ASTM F2772-11	Passed
Ball Rebound	ASTM F2772-11	Passed

Surface Layer Technical Characteristics

Property	Standard	Value
Reaction to Fire	ASTM E648	Class 1 (Radiant Panel)
Static Load Tolerance	ASTM F970 (modified)	200 psi
Wear Layer	EN 429	0.80 mm
Taber Abrasion	ASTM D3389	0.02 g (1,000 Cycles)
Stain Resistance	ASTM F925	Excellent
Roll Width	EN 426/EN 427	2 m (6.5')
Roll Length	EN 426/EN 427	26 m (85.3')
Thickness	EN 428/EN 429	2.0 mm (0.079")
Weight	EN 430	3.1 kg/m ² (0.64 lbs./sq. ft.)

Compatible substrates include: properly constructed and prepared concrete, wood, asphalt, and cementitious underlayments. Refer to current installation guidelines, ASTM F710, ACI 302.2R, and other industry standard recommendations for more information. Tarkett Sports reserves the right to modify these specifications without affecting their compliance with standards. Some results may vary in relation to certain flexibilities found within specified testing procedures and manufacturing tolerances.

SPECIFICATIONS



Available Colors for Compact 2.0 mm with Lumaflex



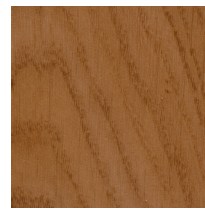
Beech[◇]



Golden Maple



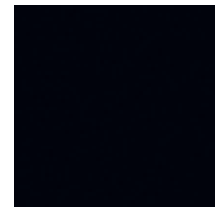
Classic Oak[◇]



Gunstock Oak[◇]



Grey



Black



Yellow



Orange



Red



Royal Blue



Sky Blue



Teal



Forest Green



Field Green



Grey Maple



Green Maple



Blue Maple



Red Maple

The colors presented here are representations only. An actual sample is recommended for exact color evaluation and matching.
[◇]This pattern has a 3" wide plank. Other wood patterns have a width of 2 1/4".

SPECIFICATIONS

Contract *legend*

WARRANTIES

Residential:	Lifetime Limited Wear Warranty Lifetime Limited Structural Integrity Warranty Lifetime Limited Waterproof Warranty
Commercial:	15 Year Limited Wear Warranty

CERTIFICATION

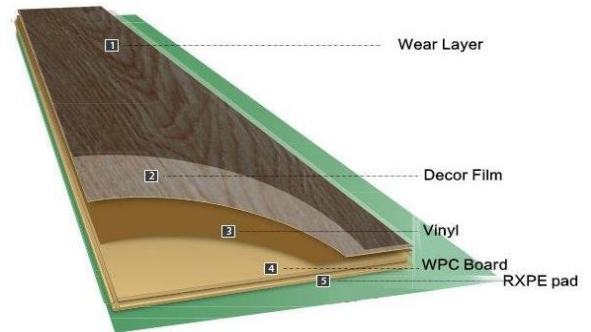
FloorScore Indoor Air Quality

INSTALLATION

Grade Level:	Above Grade On Grade Below Grade
Method:	Floating
Radiant Heated Floor:	Yes. Can be installed over radiant floor heating system.

SPECIFICATIONS

Construction:	UV Protective Coating 0.5 mm (20 mils) Virgin PVC Wear Layer Décor Layer 1.65 mm filled PVC Layer 4.0 mm WPC Core 1.5 mm EVA Foam Layer
Dimensions:	Thickness less underlayment - 6 mm Thickness with underlayment - 7.5 mm Width - 7 1/16 in. Length - 48 in.
Joint Locking:	Click Lock Valinge 2G
Surface Edging:	Micro beveled; all sides
Surface Texture:	Hand-Scraped; Embossed; Distressed
Gloss:	6-10°



PACKAGING

Planks per case:	10 planks
Coverage per case:	23.64 sq. ft.
Pallet dimension:	43.25 in. H x 40.5 in. W x 49.125 in. D
Cases per pallet:	60 cases

PERFORMANCE

Sound Transmission Class:	STC = 69db	ASTM E413-10
Coefficient of Friction:	Dry: 0.82; Wet: 0.98	ASTM D2047-04 (James Machine)
Chemical Resistance:	No Effect (Class 0)	EN423
Abrasion Resistance:	Class P	EN660-2
Colorfastness to Light:	Above Grade 6	EN ISO 10502
Critical Radiant Flux:	Class 1	ASTM E648 & NFPA 253 & FTM 372
Falling Ball:	0.015 in	ASTM D2394
Static Load:	0.006 in. @ 500 lbs.	ASTM F970

COMPLIANCE

CA Section 01350:	Compliant
CA Proposition 65:	Compliant

SPECIFICATIONS



• PRODUCT NAME

ECO-GRIP® SLIP RESISTANT SAFETY FLOORING

1. MANUFACTURING

Allied Industries International, Inc. 1088 Old Gaffney Hwy, Jonesville, SC 29353
Phone: (864) 674-0018 Fax: (864) 674-0019

2. PRODUCT DESCRIPTION

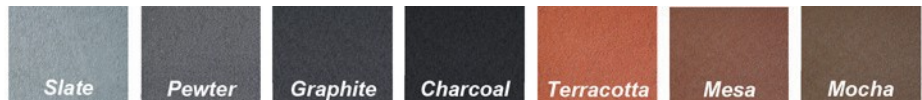
Eco-Grip® Slip Resistant Safety Flooring is 1/4" thick recycled poly vinyl chloride material flooring designed for slip resistance. Eco-Grip® Slip Resistant Safety Flooring provides superior shock absorbency and is capable of withstanding high impact. The unique surface design provides excellent traction even when wet and/or greasy. Specifically designed not to shrink or harden when exposed to animal fats or caustic chemicals.

3. APPLICATIONS

Ideal for commercial kitchens, walk-in coolers, medical facilities, veterinary clinics, locker rooms, weight rooms, gym floors, laboratories, entrance ways, factory and plant floors, multipurpose floors, and as a temporary gym floor protection. Eco-Grip® Slip Resistant Safety Flooring may be installed anywhere that a durable wear layer is required such as commercial kitchens, gym floors, restrooms, hallways, etc.

4. SPECIFICATIONS

Size Sheets - 60" x 96" Thickness: 1/4" Surface Finish: Aggressive, textured surface for superior slip resistance. Colors:



Eco-Grip® Slip Resistant Safety Flooring is manufactured from 98% recycled polyvinyl chloride with fabric strand reinforcement to increase overall product flexibility and physical strength.

5. CLEANING INSTRUCTIONS

May be cleaned using standard commercial floor cleaning practices. For ease of maintenance, **Eco-Grip® Commercial Kitchen Floor Cleaner** is the recommended concentrate for commercial kitchen applications.

6. INSTALLATION

Where to install: Eco-Grip® Slip Resistant Safety Flooring may be installed on most types of clean, dry, level and hard substrates. Eco-Grip® Safety Flooring may be used for both interior and exterior applications.

Surface preparation: Surface should be clean and free of debris that may prohibit Eco-Grip® Slip Resistant Safety Flooring from laying flat. Uneven joints and cracks which create an unlevel condition, should be repaired using an approved underlayment or leveling compound. Eco-Grip® Slip Resistant Safety flooring is to be installed following normal installation procedures. Cutting and trimming can be achieved using a standard utility knife or similar razorblade-type tool.

7. ALLIED INDUSTRIES TEST DATA

Tensile Strength: 1600 psi	Bacteria & Mildew Resistance: Excellent ASTM G-21
Compressive Strength Elongation: 185%	Coefficient of Friction (avg): ASTM D-1894-08 Dry 1.31 Wet 1.07
Hardness: instant /15 seconds 90 - 85 Average	Fire Test: NFPA Type I Rated
Weight (oz. sq. ft.): 25.16 ASTM D-751	Thickness: .250 inches
	Oxygen Index: 29.0

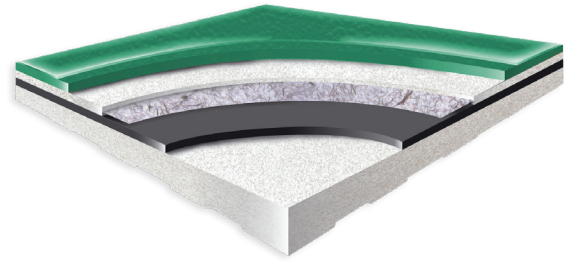
This list is a sampling materials ALLIED INDUSTRIES has seen in the commercial food service environment. Eco-Grip® Slip Resistant Safety Flooring is resistant to these and many more chemicals and ALLIED INDUSTRIES will evaluate any chemical not listed which may be present in a particular application. Data based on ASTM D-543.

Ammonium Chloride	Calcium Chloride	Fluburic Acid	Mineral Spirits
Ammonium Hydroxide	Calcium Hydroxide	Formaldehyde	Motor Oil
Ammonium Nitrate	Calcium Hypochlorite	Gasoline	Muriatic Acid
Ammonium Sulfate	Chicken Fat	Glyoxal	Phosphoric Acid
Amyl Acetate	Chromic Acid	Hexane	Phthalic Acid
Aniline	Citric Acid	Hydrogen Peroxide	Salt Water
Beef Fat	Cutting Oil	Jet Fuel/Diesel Fuel	Sewer Sludge
Benzoic Acid	Detergent Solution	Kerosene	Sodium Hydroxide
	Diethyl Phthalate	Lacquer Spray Paint	Tannic Acid
Boric Acid	Dilute Sodium Hydroxide	Latex Paint	Triacetin
Butyl Acetate	Ethyl Alcohol	Malic Acid	Varasol
Butyric Acid	Fertilizer Solution	Methyl Alcohol	Vegetable Oil

OMNISPORTS

3.5 mm

Omnisports 3.5 mm is a vinyl multi-use sports floor containing a non-woven fiberglass layer and PVC foam backing. Its slightly textured surface is protected with Top Clean xp®, allowing easy maintenance.



Warranty Protection

- 15-year wear layer and product defect coverage plus 10-year moisture tolerance coverage. Refer to sample warranty document for complete coverage.

Environmental Facts and LEED

- For environmental facts and LEED credits, visit: tarkettsportsindoor.com/en/specs-and-data/environmental-fact-sheets and tarkettsportsindoor.com/en/specs-and-data/leed-information.

Maintenance Instructions

- For a complete maintenance guide, visit: tarkettsportsindoor.com/en/specs-and-data/care-and-maintenance.

Installation Methods

- Full Adhesive: installation using Tarkett's Multi-Poxy adhesive, HS Sports Spray, or Multi-Set acrylic adhesive over the entire area (moisture tolerance: 98% RH using Multi-Poxy, 90% RH using HS Sports Spray, 83% using Multi-Set per ASTM F2170)
- Tarkolay: installation over moisture barrier using Multi-Poxy adhesive (no moisture testing required)

Sports Characteristics

Property	Standard	Value
Ball Rebound	ASTM F2772-11	Passed
Force Reduction	ASTM F2772-11	Class 1
Surface Finish Effect	ASTM F2772-11	Passed
Vertical Deformation	ASTM F2772-11	Passed

Technical Characteristics

Property	Standard	Value
Below-Room Sound Insulation	ISO 717/02	+/- 19 dB
In-Room Sound Insulation	NF S31-074	62 dB
Microbial Resistance	ASTM G21 (backing)	No growth
Reaction to Fire	ASTM E648	Class 1 (Radiant Panel)
Rolling Load	EN 1569	≤ 1.0 mm (No Degradation)
Roll Length	EN 426/EN 427	23 m (75.5')
Roll Width	EN 426/EN 427	2 m (6.5')
Stain Resistance	ASTM F925	Excellent
Static Load Tolerance	ASTM F970 (modified)	175 psi
Taber Abrasion	ASTM D3389	0.02 g (1,000 Cycles)
Thickness	EN 428/EN 429	3.5 mm (0.138")
Wear Layer Performance Grade	ASTM F1303	Type 1, Grade 1, Commercial
Wear Layer Thickness	—	2.0 mm
Wear Layer Thickness	ASTM F410/F1303	0.65 mm
Weight	EN 430	3.29 kg/m ² (0.67 lbs./sq. ft.)

Compatible substrates include: properly constructed and prepared concrete, wood, asphalt, and cementitious underlayments. Refer to current installation guidelines, ASTM F710, ACI 302.2R, and other industry standard recommendations for more information. Tarkett Sports reserves the right to modify these specifications without affecting their compliance with standards. Some results may vary in relation to certain flexibilities found within specified testing procedures and manufacturing tolerances.

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01/08/18



Available Colors for Omnisports 3.5 mm



Beech

Golden Maple[◇]

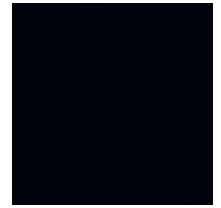
Classic Oak



Gunstock Oak



Grey



Black



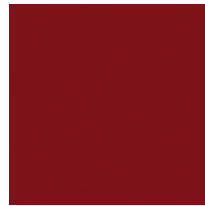
Yellow



Orange



Dark Orange



Red



Royal Blue



Sky Blue



Forest Green



Field Green

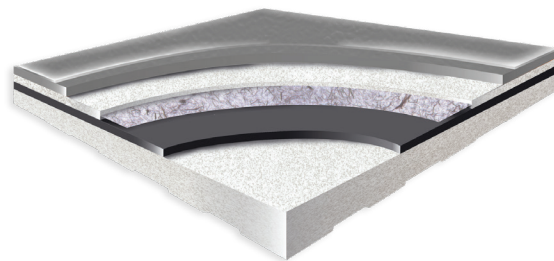


Teal

The colors presented here are representations only. An actual sample is recommended for exact color evaluation and matching.
[◇]This pattern has a 2 ¹/₄" wide plank. Other wood patterns have a width of 3".

OMNISPORTS 5.5 mm

Omnisports 5.5 mm is a vinyl multi-use sports floor containing a non-woven fiberglass layer and PVC foam backing. Its slightly textured surface is protected with Top Clean xp®, allowing easy maintenance.



Warranty Protection

- 15-year wear layer and product defect coverage plus 10-year moisture tolerance coverage. Refer to sample warranty document for complete coverage.

Environmental Facts and LEED

- For environmental facts and LEED credits, visit: tarkettportsindoor.com/en/specs-and-data/environmental-fact-sheets and tarkettportsindoor.com/en/specs-and-data/leed-information.

Maintenance Instructions

- For a complete maintenance guide, visit: tarkettportsindoor.com/en/specs-and-data/care-and-maintenance.

Installation Methods

- Full Adhesive: installation using Tarkett's Multi-Poxy adhesive, HS Sports Spray, or Multi-Set acrylic adhesive over the entire area (moisture tolerance: 98% RH using Multi-Poxy, 90% RH using HS Sports Spray, 83% using Multi-Set per ASTM F2170)
- Tarkolay: installation over moisture barrier using Multi-Poxy adhesive (no moisture testing required)

Sports Characteristics

Property	Standard	Value
Ball Rebound	ASTM F2772-11	Passed
Force Reduction	ASTM F2772-11	Class 2
Surface Finish Effect	ASTM F2772-11	Passed
Vertical Deformation	ASTM F2772-11	Passed

Technical Characteristics

Property	Standard	Value
Below-Room Sound Insulation	ISO 717/02	+/- 19 dB
In-Room Sound Insulation	NF S31-074	61 dB
Microbial Resistance	ASTM G21 (backing)	No growth
Reaction to Fire	ASTM E648	Class 1 (Radiant Panel)
Rolling Load	EN 1569	≤ 0.5 mm (No Degradation)
Roll Length	EN 426/EN 427	26 m (85.3')
Roll Width	EN 426/EN 427	2 m (6.5')
Stain Resistance	ASTM F925	Excellent
Static Load Tolerance	ASTM F970 (modified)	175 psi
Taber Abrasion	ASTM D3389	0.02 g (1,000 Cycles)
Thickness	EN 428/EN 429	5.5 mm (0.216")
Wear Layer Performance Grade	ASTM F1303	Type 1, Grade 1, Commercial
Wear Layer Thickness	—	2.0 mm
Wear Layer Thickness	ASTM F410/F1303	0.7 mm
Weight	EN 430	4.25 kg/m ² (0.87 lbs./sq.ft.)

Compatible substrates include: properly constructed and prepared concrete, wood, asphalt, and cementitious underlayments. Refer to current installation guidelines, ASTM F710, ACI 302.2R, and other industry standard recommendations for more information. Tarkett Sports reserves the right to modify these specifications without affecting their compliance with standards. Some results may vary in relation to certain flexibilities found within specified testing procedures and manufacturing tolerances.

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Available Colors for Omnisports 5.5 mm



Beech

Golden Maple[◇]

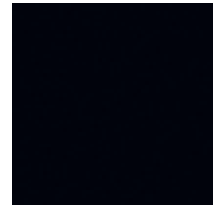
Classic Oak



Gunstock Oak



Grey



Black



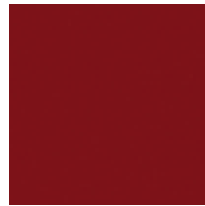
Yellow



Orange



Dark Orange



Red



Royal Blue



Sky Blue



Forest Green



Field Green



Teal

The colors presented here are representations only. An actual sample is recommended for exact color evaluation and matching.
 ◇ This pattern has a 2 1/4" wide plank. Other wood patterns have a width of 3".

OMNISPORTS

7.1 mm

Omnisports 7.1 mm is a vinyl multi-use sports floor containing a non-woven fiberglass layer and PVC foam backing. Its slightly textured surface is protected with Top Clean xp®, allowing easy maintenance.



Warranty Protection

- 15-year wear layer and product defect coverage plus 10-year moisture tolerance coverage. Refer to sample warranty document for complete coverage.

Environmental Facts and LEED

- For environmental facts and LEED credits, visit: tarkettportsindoor.com/en/specs-and-data/environmental-fact-sheets and tarkettportsindoor.com/en/specs-and-data/leed-information.

Maintenance Instructions

- For a complete maintenance guide, visit: tarkettportsindoor.com/en/specs-and-data/care-and-maintenance.

Installation Methods

- GreenLay™: perimeter glue installation requiring only 2% of the surface area to be glued with Tarkett's solvent-free Multi-Poxy adhesive (moisture tolerance: 92% RH per ASTM F2170)
- Full Adhesive: installation using Tarkett's Multi-Poxy adhesive, HS Sports Spray, or Multi-Set acrylic adhesive over the entire area (moisture tolerance: 98% RH using Multi-Poxy, 90% RH using HS Sports Spray, 83% using Multi-Set per ASTM F2170)
- Tarkolay: installation over moisture barrier using Multi-Poxy adhesive (no moisture testing required)

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Sports Characteristics

Property	Standard	Value
Ball Rebound	ASTM F2772-11	Passed
Force Reduction	ASTM F2772-11	Class 2
Surface Finish Effect	ASTM F2772-11	Passed
Vertical Deformation	ASTM F2772-11	Passed

Technical Characteristics

Property	Standard	Value
Below-Room Sound Insulation	ISO 717/02	+/- 19 dB
In-Room Sound Insulation	NF S31-074	61 dB
Microbial Resistance	ASTM G21 (backing)	No growth
Reaction to Fire	ASTM E648	Class 1 (Radiant Panel)
Resistance to Impact	EN 1517	No Degradation
Rolling Load	EN 1569	≤ 0.5 mm (No Degradation)
Roll Length	EN 426/EN 427	26 m (85.3')
Roll Width	EN 426/EN 427	2 m (6.5')
Stain Resistance	ASTM F925	Excellent
Static Load Tolerance	ASTM F970	175 psi
Taber Abrasion	ASTM D3389	0.02 g (1,000 Cycles)
Thickness	EN 428/EN 429	7.1 mm (0.279")
Wear Layer Performance Grade	ASTM F1303	Type 1, Grade 1, Commercial
Wear Layer Thickness	—	2.0 mm
Wear Layer Thickness	ASTM F410/F1303	0.7 mm
Weight	EN 430	4.7 kg/m ² (0.96 lbs./sq. ft.)

Compatible substrates include: properly constructed and prepared concrete, wood, asphalt, and cementitious underlayments. Refer to current installation guidelines, ASTM F710, ACI 302.2R, and other industry standard recommendations for more information. Tarkett Sports reserves the right to modify these specifications without affecting their compliance with standards. Some results may vary in relation to certain flexibilities found within specified testing procedures and manufacturing tolerances.



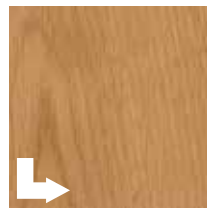
Available Colors for Omnisports 7.1 mm



Light Maple

Beech[◇]

Golden Maple

Classic Oak[◇]Gunstock Oak[◇]Dark Beech[◇]

Grey Maple



Mint Green Maple



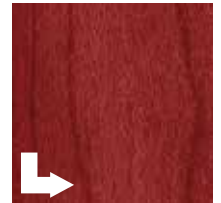
Green Maple



Sky Blue Maple



Blue Maple



Red Maple



Yellow



Orange



Dark Orange



Purple



Magenta



Red



Grey



Black



Brown



Sky Blue



Night Blue



Royal Blue



Forest Green



Mint Green



Light Green



Teal

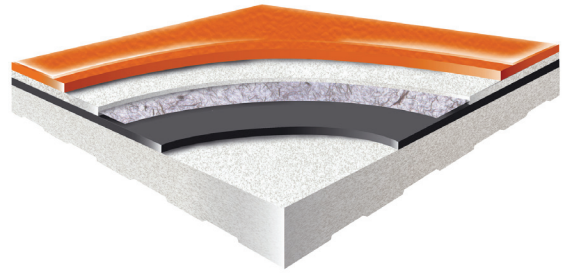
The colors presented here are representations only. An actual sample is recommended for exact color evaluation and matching.
[◇]This pattern has a 3" wide plank. Maple patterns have a width of 2 1/4".

 Quick Ship

OMNISPORTS

9.4 mm

Omnisports 9.4 mm is a vinyl multi-use sports floor containing a non-woven fiberglass layer and PVC foam backing. Its slightly textured surface is protected with Top Clean xp®, allowing easy maintenance.



Warranty Protection

- 15-year wear layer and product defect coverage plus 10-year moisture tolerance coverage. Refer to sample warranty document for complete coverage.

Environmental Facts and LEED

- For environmental facts and LEED credits, visit: tarkettsportsindoor.com/en/specs-and-data/environmental-fact-sheets and tarkettsportsindoor.com/en/specs-and-data/leed-information.

Maintenance Instructions

- For a complete maintenance guide, visit: tarkettsportsindoor.com/en/specs-and-data/care-and-maintenance.

Installation Methods

- GreenLay™:** perimeter glue installation requiring only 2% of the surface area to be glued with Tarkett's solvent-free Multi-Poxy adhesive (moisture tolerance: 92% RH per ASTM F2170)
- Full Adhesive:** installation using Tarkett's Multi-Poxy adhesive, HS Sports Spray, or Multi-Set acrylic adhesive over the entire area (moisture tolerance: 98% RH using Multi-Poxy, 90% RH using HS Sports Spray, 83% using Multi-Set per ASTM F2170)
- Tarkolay:** installation over moisture barrier using Multi-Poxy adhesive (no moisture testing required)

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Sports Characteristics

Property	Standard	Value
Ball Rebound	ASTM F2772-11	Passed
Force Reduction	ASTM F2772-11	Class 3
Surface Finish Effect	ASTM F2772-11	Passed
Vertical Deformation	ASTM F2772-11	Passed

Technical Characteristics

Property	Standard	Value
Below-Room Sound Insulation	ISO 717/02	+/- 20 dB
In-Room Sound Insulation	NF S31-074	65 dB
Microbial Resistance	ASTM G21 (backing)	No growth
Reaction to Fire	ASTM E648	Class 1 (Radiant Panel)
Resistance to Impact	EN 1517	No Degradation
Rolling Load	EN 1569	≤ 0.5 mm (No Degradation)
Roll Length	EN 426/EN 427	26 m (85.3')
Roll Width	EN 426/EN 427	2 m (6.5')
Stain Resistance	ASTM F925	Excellent
Static Load Tolerance	ASTM F970 (modified)	175 psi
Taber Abrasion	ASTM D3389	0.02 g (1,000 Cycles)
Thickness	EN 428/EN 429	9.4 mm (0.37")
Wear Layer Performance Grade	ASTM F1303	Type 1, Grade 1, Commercial
Wear Layer Thickness	—	2.0 mm
Wear Layer Thickness	ASTM F410/F1303	0.7 mm
Weight	EN 430	5.7 kg/m ² (1.17 lbs./sq. ft.)

Compatible substrates include: properly constructed and prepared concrete, wood, asphalt, and cementitious underlayments. Refer to current installation guidelines, ASTM F710, ACI 302.2R, and other industry standard recommendations for more information. Tarkett Sports reserves the right to modify these specifications without affecting their compliance with standards. Some results may vary in relation to certain flexibilities found within specified testing procedures and manufacturing tolerances.



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11/28/17

TAB C-Flooring
616



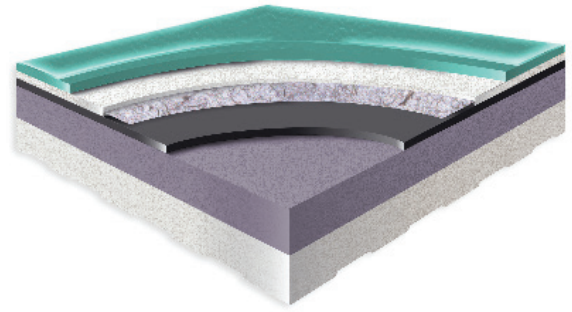
Available Colors for Omnisports 9.4 mm



The colors presented here are representations only. An actual sample is recommended for exact color evaluation and matching.
[◇]This pattern has a 3" wide plank. Maple patterns have a width of 2 1/4".

OMNISPORTS 12.0 mm

Omnisports 12.0 mm is a vinyl sports floor containing a non-woven fiberglass layer and PVC foam backing. Its slightly textured surface is protected with Top Clean xp®, allowing easy maintenance.



Warranty Protection

- 15-year wear layer and product defect coverage plus 10-year moisture tolerance coverage. Refer to sample warranty document for complete coverage.

Environmental Facts and LEED

- For environmental facts and LEED credits, contact Tarkett Sports technical service at 770-712-8540.

Maintenance Instructions

- For a complete maintenance guide, contact Tarkett Sports technical service at 770-712-8540.

Installation Methods

- Full Adhesive: installation using Tarkett's Multi-Poxy adhesive, HS Sports Spray, or Multi-Set acrylic adhesive over the entire area (moisture tolerance: 98% RH using Multi-Poxy, 90% RH using HS Sports Spray, 83% using Multi-Set per ASTM F2170)

Sports Characteristics

Property	Standard	Value
Ball Rebound	ASTM F2772-11	Passed
Force Reduction	ASTM F2772-11	Class 4
Surface Finish Effect	ASTM F2772-11	Passed
Vertical Deformation	ASTM F2772-11	Passed

Technical Characteristics

Property	Standard	Value
Roll Length	EN 426/EN 427	15 m (49.2')
Roll Width	EN 426/EN 427	2 m (6.5')
Resistance to Wear	EN ISO 5470-1	≤ 1.0 g
Resistance to Indentation	EN 1516	≤ 0.5 mm
Resistance to Impact	EN 1517	No Degradation
Rolling Load	EN 1569	≤ 0.5 mm (No Degradation)
Reaction to Fire	ASTM E648	Class 1 (Radiant Panel)
Stain Resistance	ASTM F925	Excellent
Light Stability of Resilient Flooring by Color Change	ASTM F1515	Excellent
Thickness	EN 428/EN 429	12 mm (0.47')
Wear Layer Performance Grade	ASTM F1303	Type 1, Grade 1, Commercial
Wear Layer Thickness	–	2.0 mm
Wear Layer Thickness	ASTM F410/F1303	0.76 mm
Weight	EN 430	7.1 kg/m ² (1.45 lbs./sq. ft.)

Compatible substrates include: properly constructed and prepared concrete, wood, asphalt, and cementitious underlayments. Refer to current installation guidelines, ASTM F710, ACI 302.2R, and other industry standard recommendations for more information. Tarkett Sports reserves the right to modify these specifications without affecting their compliance with standards. Some results may vary in relation to certain flexibilities found within specified testing procedures and manufacturing tolerances.

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THE ULTIMATE
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12/21/17

TAB C-Flooring
618



Available Colors for Omnisports 12.0 mm



Golden Maple



Classic Oak[◇]



Orange



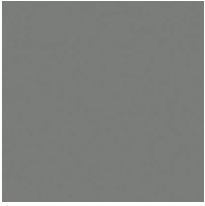
Teal



Royal Blue



Red



Grey



Forest Green

The colors presented here are representations only. An actual sample is recommended for exact color evaluation and matching.
[◇]This pattern has a 3" wide plank. Maple patterns have a width of 2 1/4".

ARCHITECTURAL SPECIFICATIONS FOR INDOOR RESILIENT ATHLETIC SURFACING

PART 1 – GENERAL

1.1 SECTION INCLUDES

- A. Supply and installation of the indoor resilient multipurpose surfacing
- B. Application of the game lines
- C. References for the correct construction and preparation of concrete slabs to receive resilient flooring.

1.1 SUBMITTALS

- A. Product Data:
 - 1. Manufacturer's promotional brochures, specifications and installation instructions
- B. Manufacturer Certifications:
 - 1. Provide certification that accurately identifies the Original Equipment Manufacturer (OEM) of flooring furnished for this project including manufacturer's name, address and factory location.
 - 2. Suppliers of private label flooring for this project must identify themselves as such and fully disclose the OEM information listed above.
 - 3. All "manufacturer" requirements in these specifications must be complied with by the OEM, including warranties, certifications, qualifications, product data, test results, environmental requirements, performance data, etc.
- C. Samples:
 - 1. Submit for selection and approval three (3) sets of the indoor resilient multipurpose surfacing, manufacturer's brochures, samples or sample boards of all of the available colors, textures and styles.
 - 2. Submit color samples of all the available game line paint colors for selection and approval.
- D. Closeout Submittals:
 - 1. Submit three (3) copies of the indoor resilient multipurpose surfacing and manufacturer's maintenance instructions.
 - 2. Submit three (3) copies of the material and installation warranties as specified.

1.1 QUALITY ASSURANCE

- A. Qualifications:
 - 1. The indoor resilient multipurpose surfacing shall have been actively marketed for a minimum of ten (10) years.
 - 2. The indoor resilient multipurpose surfacing shall be manufactured in an ISO 9001 certified plant.
 - 3. The indoor resilient multipurpose surfacing shall be manufactured in an ISO 14001 certified plant.
 - 4. The indoor resilient multipurpose surfacing supplier shall be an established firm, experienced in the field, and competent in the techniques required by the manufacturer.
 - 5. The installer of the indoor resilient multipurpose surfacing shall have a minimum of five (5) years of experience in the field installing indoor resilient multipurpose surfacing and have worked on at least five (5) projects of similar size, type and complexity.

ARCHITECTURAL SPECIFICATIONS FOR INDOOR RESILIENT ATHLETIC SURFACING

- B. Certifications:
 1. Installer to submit the indoor resilient dance floor surfacing manufacturer's certification attesting that they are a trained installer of the indoor resilient multipurpose surfacing.
 2. The indoor resilient multipurpose surfacing manufacturer to submit official ISO 9001 certification for the facility in which the indoor resilient multipurpose surfacing is manufactured.
- C. Testing:
 1. Tests shall be relative for multi-purpose use with certificates from independent testing resources to be made available upon request.
 2. Test results shall be no more than 5 years old and performed according to ASTM standard testing procedures.

1.1 DELIVERY, STORAGE AND HANDLING

- A. Delivery:

Material shall not be delivered until all related work is in place and finished and/or proper storage facilities and conditions can be provided and guaranteed stable according to FieldTurf USA, Inc. recommendations.
- B. Storage:
 1. Store the material in a secure, clean and dry location.
 2. Maintain temperature between 55° and 85° Fahrenheit.
 3. Store the indoor resilient dance floor surfacing rolls in an upright position on a smooth flat surface immediately upon delivery to jobsite.
 4. Rolls shipped in rigid protective cardboard containers can be laid horizontally prior to unpacking and installation.

1.1 PROJECT/SITE CONDITIONS

- A. It is the responsibility of the general contractor/construction manager to maintain project/site conditions acceptable for the installation of the indoor resilient multipurpose flooring.
- B. The area in which the indoor resilient multipurpose surfacing will be installed shall be dry and weather tight. Permanent heat, light and ventilation shall be installed and operable.
- C. All other trades shall have completed their work prior to the installation of the resilient dance floor flooring. The general contractor or construction manager shall maintain a secure and clean working environment before, during and after the installation.
- D. Maintain a stable room temperature of at least 65°F for a minimum of one (1) week prior to, during and thereafter installation.
- E. An effective low-permeance vapor barrier is placed directly beneath the concrete subfloor. For "on" or "below grade" installations, it is recommended to provide a permanent vapor barrier resistant to long term hydrostatic pressure/moisture exposure. Protrusions should be sealed to prevent moisture migration into the slab. Moisture should not be allowed to enter the slab after the completed construction.
- F. Concrete subfloor surface pH level within the 7 to 11 range dependent upon installation type.
- G. Concrete subfloor should be no greater than 1/8" within a 10 ft diameter. This tolerance can be measured in accordance with ASTM E1155. A specified (F_F) of 50 and an (F_L) of 30 should reach this degree of floor flatness and floor level. There is no numerical correlation between F numbers and the deviation from the straight edge. However, the above specified numbers should achieve a flat floor with minimal deviation in the slab. Reference ACI 117 and ACI 302.1R. The general contractor should provide a certificate of compliance with the above recommendations.
- H. Concrete subfloor must be clean and free of all foreign materials or objects including, but not limited to, curing compounds and sealers.

ARCHITECTURAL SPECIFICATIONS FOR INDOOR RESILIENT ATHLETIC SURFACING

- I. Fill cracks, grooves, voids, depressions, and other minor imperfections. Follow the manufacturer's directions. Moveable joints must be treated utilizing specific transitioning joint devices depending upon the architect's recommendations. Follow current ASTM F710 guidelines for the preparation of concrete slabs to receive resilient flooring.
- J. Refer to ACI 302.2R "Guidelines for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials" for concrete design and construction.
- K. Concrete slab shall be fortified with continual steel reinforcement. Fiber reinforcement alone shall not be considered adequate fortification.

1.1 WARRANTY

- A. Special Limited Warranty:
 - 1. Manufacturer's standard form in which manufacturer agrees to repair or replace sports flooring including labor that fails within specified warranty period.
- B. Material warranty must be direct from the product manufacturer.
 - 1. Material warranties from separate or third party insurance providers are not valid.
 - 2. Material warranties must come from original manufacturer or division thereof. Private label warranties from distributors or brokers are not valid. Supply original point of manufacturing upon request.
- C. Failures include, but are not limited to, the following:
 - 1. Material manufacturing defects.
 - 2. Surface wear and deterioration to the point of wear-through of wear layer per ASTM F410/ASTM F1303.
 - 3. Failure due to substrate moisture exposure exceeding 90 percent relative humidity when tested according to ASTM F2170.
- D. Warranty Period:
 - 1. For material defects and surface wear-through: **15** years from date of substantial completion.
 - 2. For moisture vapor tolerance: **10** years from date of substantial completion.
- E. Installer's Limited Warranty:
 - 1. Installer's standard form in which installer agrees to repair or replace sports flooring that fails due to poor workmanship or faulty installation within the specified warranty period.
 - 2. Warranty Period: 2 years from date of substantial completion.

1.1 ADDITIONAL MATERIALS

- A. Furnish to the owner additional materials containing a total of at least 1% of each different color or design of the indoor resilient dance floor surfacing used on the project.

ARCHITECTURAL SPECIFICATIONS FOR INDOOR RESILIENT ATHLETIC SURFACING**PART 2 - PRODUCTS****2.1 MATERIALS**

- A. Prefabricated dance floor surfacing 3.5 mm with slightly textured embossed surface.
 - 1. Intermediate layers shall be fortified with a non-woven fiberglass grid for increased dimensional stability.
 - 2. The foam force reduction layer shall be high-density closed cell PVC foam with honeycomb embossing, and is applied in one continuous manufacturing process.
 - 3. Laminated or adhered foam layers will not be allowed.
 - 4. Field constructed products will not be accepted.
- A. Adhesive moisture mitigation combination. Provide non-solvent reactive topically applied moisture mitigation/adhesive according to manufacturer's recommendations.
- B. Physical properties of the indoor resilient dance floor surfacing shall conform to the following minimums:

Width	—	6' 6" (2 m)
Length	—	85' (25.9m) approx.
Wear Layer	—	2 mm
Total Thickness	—	3.5 mm
Wear Layer	Type 1– Grade 1	ASTM F1303/F410
Force Reduction	PASSED	ASTM F2772 Class 1
Slip Resistance	P3	AS 4586
Surface Finish Effect	PASSED	ASTM F2772 (80 – 110)
Abrasion Volume Loss	Group T: ≤2.0 mm ³	EN 660: Part 2
Chemical Resistance	Excellent	ASTM F925
Impact Resistance	PASSED	EN 1717
Abrasion Resistance	PASSED	0.10 (EN ISO 5470-1 {06/1999})
Static Load Limit	PASSED	ASTM F970- Load 175 Lbs
Sound Insulation	Excellent	+/- 19 dB (ISO 717/2)
In-Room Sound Insulation	Excellent	61dB (NF S31-074)
Fire Rating	PASSED	ASTM E648 Class 1
Phthalate-free technology	—	YES
REACH Compliant	—	YES
Heavy Metals	—	NO
ISO 9001	—	YES
ISO 14001	—	YES

- 1. Color: As available from the indoor resilient dance floor surfacing manufacturer's standard range.
- C. Welding Rod: As supplied by the indoor resilient dance floor surfacing manufacturer or supplier.
 - 1. Color to blend with the indoor resilient dance floor surfacing color or design.
 - 2. All seams shall be welded to create a monolithic and impermeable surface.
- C. Adhesive: As approved by the indoor resilient dance floor surfacing manufacturer.

SECTION 09 65 66

ARCHITECTURAL SPECIFICATIONS FOR INDOOR RESILIENT ATHLETIC SURFACING

PART 3 - EXECUTION

3.1 EXAMINATION

- A. It is the responsibility of the general contractor/construction manager to ensure that project/site conditions are acceptable for the installation of the indoor resilient dance floor surfacing.
- B. Verify that the area in which the indoor resilient dance floor surfacing will be installed is dry and weather tight. Verify that permanent heat, light and ventilation are installed and operable.
- C. Verify that all other work that could cause damage, dirt and dust or interrupt the normal pace of the indoor resilient dance flooring installation is completed or suspended.
- D. Verify that there is a stable room temperature of at least 65°F.
- E. Verify that there are no foreign materials or objects on the subfloor and that the subfloor is clean and ready for installation.
- F. Direct Full Spread Adhering to Concrete Subfloor : moisture content less than 90% RH when tested per ASTM F2170.
- G. Follow Fieldturf USA, Inc. installation recommendations.
- H. Do not average the results of the tests. Report all field test results in writing to the General Contractor, Architect, and End User prior to installation.
- I. Verify that the concrete subfloor surface pH level is within the 7 - 11 range.
- J. Document the results confirming the slab is within manufacturer's tolerances for slab deviation.

3.2 PREPARATION OF SURFACES

- A. Sand the entire surface of the concrete slab.
- B. Sweep the concrete slab so as to remove all dirt and dust. If a sweeping compound is to be used it must be a sweeping compound that does not contain oil or other items that may inhibit the adhesive bond.
- C. Slab must be dust free. In the event that dust impairs adhesive bond, priming the slab prior to application of adhesive may be necessary. Follow installation guidelines.
- D. Follow OSHA guidelines.

3.3 INSTALLATION

- A. The installation area shall be closed to all traffic and activity for a period to be set by the indoor resilient dance floor surfacing installer. The indoor resilient dance floor surfacing installation shall not begin until the installer is familiar with the existing conditions.
- B. All necessary precautions should be taken to minimize noise, smell, dust, the use of hazardous materials and any other items that may inconvenience others.
- C. Install the indoor resilient dance floor surfacing in strict accordance with the indoor resilient dance floor surfacing manufacturer's written instructions.
- D. Install the indoor resilient dance floor surfacing minimizing cross seams. Provide a seam diagram during the submittal process for approval prior to installation. Vinyl Sheet Flooring Seams: Comply with ASTM F 1516. Rout joints and heat weld to permanently and seamlessly fuse sections together.
- E. Install appropriate threshold plates or transition strips where necessary.

ARCHITECTURAL SPECIFICATIONS FOR INDOOR RESILIENT ATHLETIC SURFACING

3.5 *CLEANING*

- A. Remove all unused materials, tools, and equipment and dispose of any debris properly. Clean the indoor resilient dance floor surfacing in accordance with the manufacturer's instructions.

3.6 *PROTECTION*

- A. If required, protect the indoor resilient dance floor surfacing from damage using coverings approved by the manufacturer until acceptance of work by the customer or their authorized representative.

3.7 *RELATED STANDARDS AND GUIDELINES*

- A. ASTM F2170 "Standard Test Method for Determining Relative Humidity In Concrete Floor Slabs Using In-Situ Probes"
- B. ASTM F710 "Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring"
- C. ACI 302.2R-06 "Guideline for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials"
- D. ASTM F2772-11 "Standard Specification for Athletic Performance Properties of Indoor Sports Floor Systems"

END OF SECTION


Product Specifications

Product Size	6' Roll and 24" X 24" Tile (18" x 18" and 36" x 36" also available)	
Pattern Scale	Small	
Pattern Type	Texture	
Collection	Jhane Barnes	
Coordinating Group	Textures	
Primary Backing	Non-woven synthetic fiber	
Construction	AccuweaveÆ Patterned Loop	
GSA	Yes	
Price Range	\$\$\$\$	
Face Weight	24 oz/sq yd	813.6 g/sq m
Gauge	1/12	47.2 rows/ 10 cm
Stitches Per Inch	8.0 stitches / inch	31.5 stitches/10 cm
Pile Height Average	0.187 inch	4.8 mm
Fiber System	TDXÆ Nylon	
Dye Method	100% Solution Dyed	
Fluorine-Free Soil Protection	Eco-Ensure	
Pattern Match	Not required	
Colorfastness to Light	> 4 after 100 hours (AATCC 16E)	
Soil Protection	Application rate: 2% of face weight	
Electrostatic Propensity	1.5 kV (AATCC 134); Permanent Conductive Fiber	
Surface Flammability	Passes CPSC FF 1-70 (ASTM D-2859)	
Smoke Generation	Less than 450 (ASTM E-662)	

Jhane Barnes


Environmental Attributes

Recycled Content	Yes
ER3 Note	Recycled content percentages are third-party certified annually based on the prior year's formulations and use. Recycled content specifications may be changed without notice when formulations are modified due to, for example, new manufacturing capabilities, environmental efficiencies, or postconsumer market availability.
Antimicrobial Chemicals	No antimicrobials (EPA Registered pesticides) added to product (ASTM E2471-05)

Performance Testing

Flooring Radiant Panel	Class 1 (mean average CRF: 0.45 w/sq cm or higher) (ASTM E-648)
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Installation Methods

Installation Method	Monolithic / Random
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Abrasive Action II #02578

Powerbond Cushion RS

Product Specifications

Product Size	6' Roll	1.8 m
Total Product Thickness	0.384 in (9.7536 mm)	
Pattern Scale	Small	
Pattern Type	Texture	
Collection	Jhane Barnes	
Coordinating Group	Textures	
Primary Backing	Non-woven synthetic fiber	
Construction	Accuweave® Patterned Loop	
GSA	Yes	
Price Range	\$\$\$\$	
Face Weight	24 oz/sq yd	813.6 g/sq m
Gauge	1/12	47.2 rows/ 10 cm
Stitches Per Inch	8.0 stitches / inch	31.5 stitches/10 cm
Pile Height Average	0.187 inch	4.8 mm
Fiber System	TDX® Nylon	
Dye Method	100% Solution Dyed	
Fluorine-Free Soil Protection	Eco-Ensure	
Pattern Match	Not required	
Colorfastness to Light	> 4 after 100 hours (AATCC 16E)	
Soil Protection	Application rate: 2% of face weight	
Third Party Certification NSF-140	Gold	
Electrostatic Propensity	1.5 kV (AATCC 134); Permanent Conductive Fiber	
Surface Flammability	Passes CPSC FF 1-70 (ASTM D-2859)	
Smoke Generation	Less than 450 (ASTM E-662)	
Peel and Stick	RS Adhesive System - Full Coverage Peel & Stick	

Jhane Barnes



Environmental Attributes

Total Recycled Content	7.9% (.0% Pre-Consumer; 7.9% Post-Consumer)
Recycled Content	Yes
ER3 Note	Recycled content percentages are third-party certified annually based on the prior year's formulations and use. Recycled content specifications may be changed without notice when formulations are modified due to, for example, new manufacturing capabilities, environmental efficiencies, or postconsumer market availability.
CRI Green Label Plus Certification	GLP9744
Antimicrobial Chemicals	No antimicrobials (EPA Registered pesticides) added to product (ASTM E2471-05)

Performance Testing

Flooring Radiant Panel	Class 1 (mean average CRF: 0.45 w/sq cm or higher) (ASTM E-648)
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Installation Methods

Installation Method	Monolithic / Random
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Warranty Information

SPECIFICATIONS

Warranty Information

Lifetime limited warranty against excessive surface wear, static, delamination, edge ravel, zippering and backing resiliency loss.



Product Specifications

Product Size	24" X 24" Tile (18" x 18" and 36" x 36" also available)	
Total Product Thickness	0.278 in (7.0612 mm)	
Pattern Scale	Large	
Pattern Type	Geometric	
Collection	Jhane Barnes	
Coordinating Group	Coordinate Group 3	
Primary Backing	Non-woven synthetic fiber	
Construction	Stratatec® Patterned Loop	
GSA	Yes	
Price Range	\$	
Face Weight	17 oz/sq yd	576.3 g/sq m
Gauge	5/64	50.4 rows/ 10 cm
Stitches Per Inch	8.5 stitches / inch	33.5 stitches/10 cm
Pile Height Average	0.187 inch	4.8 mm
Fiber System	Dynex SD® Nylon / Dynex® Nylon	
Dye Method	90% Solution Dyed / 10% Yarn Dyed	
Fluorine-Free Soil Protection	Eco-Ensure	
Pattern Match	Not required	
Colorfastness to Light	> 4 after 60 hours (AATCC 16E)	
Soil Protection	Application rate: 2% of face weight	
Third Party Certification NSF-140	Platinum	
Electrostatic Propensity	1.5 kV (AATCC 134); Permanent Conductive Fiber	
Surface Flammability	Passes CPSC FF 1-70 (ASTM D-2859)	
Smoke Generation	Less than 450 (ASTM E-662)	
Wet Spread	Backing specific Tandus Adhesives	

Jhane Barnes



Environmental Attributes

Total Recycled Content	58.7% (23.9% Pre-Consumer; 34.8% Post-Consumer)
Recycled Content	Yes
ER3 Note	Recycled content percentages are third-party certified annually based on the prior year's formulations and use. Recycled content specifications may be changed without notice when formulations are modified due to, for example, new manufacturing capabilities, environmental efficiencies, or postconsumer market availability.
CRI Green Label Plus Certification	GLP8320
Antimicrobial Chemicals	No antimicrobials (EPA Registered pesticides) added to product (ASTM E2471-05)

Performance Testing

Flooring Radiant Panel	Class 1 (mean average CRF: 0.45 w/sq cm or higher) (ASTM E-648)
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Installation Methods

Installation Method	Quarter Turn / Random / Vertical Ashlar - 18" X 36"
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Warranty Information

SPECIFICATIONS

Warranty Information

Lifetime limited warranty against excessive surface wear, static, delamination, edge ravel, zippering and backing resiliency loss.



POWERBOND

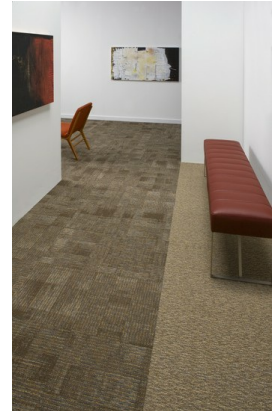


MODULAR

Product Specifications

Product Size	6' Roll	1.8 m
Total Product Thickness	0.384 in (9.7536 mm)	
Pattern Scale	Large	
Pattern Type	Geometric	
Collection	Jhane Barnes	
Coordinating Group	Coordinate Group 3	
Primary Backing	Non-woven synthetic fiber	
Construction	Stratatec® Patterned Loop	
GSA	Yes	
Price Range	\$	
Face Weight	17 oz/sq yd	576.3 g/sq m
Gauge	5/64	50.4 rows/ 10 cm
Stitches Per Inch	8.5 stitches / inch	33.5 stitches/10 cm
Pile Height Average	0.187 inch	4.8 mm
Fiber System	Dynex SD® Nylon / Dynex® Nylon	
Dye Method	90% Solution Dyed / 10% Yarn Dyed	
Fluorine-Free Soil Protection	Eco-Ensure	
Pattern Match	Not required	
Colorfastness to Light	> 4 after 60 hours (AATCC 16E)	
Soil Protection	Application rate: 2% of face weight	
Third Party Certification NSF-140	Gold	
Electrostatic Propensity	1.5 kV (AATCC 134); Permanent Conductive Fiber	
Surface Flammability	Passes CPSC FF 1-70 (ASTM D-2859)	
Smoke Generation	Less than 450 (ASTM E-662)	
Peel and Stick	RS Adhesive System - Full Coverage Peel & Stick	

Jhane Barnes



Environmental Attributes

Total Recycled Content	8.6% (.0% Pre-Consumer; 8.6% Post-Consumer)
Recycled Content	Yes
ER3 Note	Recycled content percentages are third-party certified annually based on the prior year's formulations and use. Recycled content specifications may be changed without notice when formulations are modified due to, for example, new manufacturing capabilities, environmental efficiencies, or postconsumer market availability.
CRI Green Label Plus Certification	GLP9744
Antimicrobial Chemicals	No antimicrobials (EPA Registered pesticides) added to product (ASTM E2471-05)

Performance Testing

Flooring Radiant Panel	Class 1 (mean average CRF: 0.45 w/sq cm or higher) (ASTM E-648)
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Installation Methods

Installation Method	Quarter Turn / Random / Vertical Ashlar - 18" X 36"
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Warranty Information

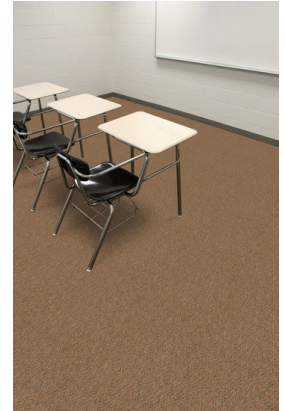
SPECIFICATIONS

Warranty Information

Lifetime limited warranty against excessive surface wear, static, delamination, edge ravel, zippering and backing resiliency loss.

Product Specifications

Product Size	6' Roll and 24" x 24" Tile (18" x 18", 18" x 36" and 36" x 36" also available)	
Pattern Scale	Medium	
Pattern Type	Texture	
Coordinating Group	Coordinate Group 3	
Primary Backing	Non-woven synthetic fiber	
Construction	Level Loop	
GSA	Yes	
Price Range	\$	
Face Weight	18 oz/sq yd	610.2 g/sq m
Gauge	1/13	50.4 rows/ 10 cm
Stitches Per Inch	8.2 stitches / inch	32.3 stitches/10 cm
Pile Height Average	0.117 inch	3.0 mm
Fiber System	Dynex SDÆ Nylon / DynexÆ Nylon	
Dye Method	50% Solution Dyed / 50% Yarn Dyed	
Fluorine-Free Soil Protection	Eco-Ensure	
Pattern Match	Not required	
Colorfastness to Light	> 4 after 60 hours (AATCC 16E)	
Soil Protection	Application rate: 2% of face weight	
Electrostatic Propensity	2.2 kV (AATCC 134); Permanent Conductive Fiber	
Surface Flammability	Passes CPSC FF 1-70 (ASTM D-2859)	
Smoke Generation	Less than 450 (ASTM E-662)	



Environmental Attributes

Recycled Content	Yes
ER3 Note	Recycled content percentages are third-party certified annually based on the prior year's formulations and use. Recycled content specifications may be changed without notice when formulations are modified due to, for example, new manufacturing capabilities, environmental efficiencies, or postconsumer market availability.
Antimicrobial Chemicals	No antimicrobials (EPA Registered pesticides) added to product (ASTM E2471-05)

Performance Testing

Flooring Radiant Panel	Class 1 (mean average CRF: 0.45 w/sq cm or higher) (ASTM E-648)
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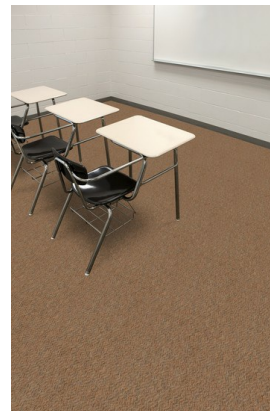
Installation Methods

Installation Method	Monolithic / Vertical Ashlar - 18" X 36"
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Product Specifications

Product Size	6' Roll and 24" x 24" Tile (18" x 18", 18" x 36" and 36" x 36" also available)	
Pattern Scale	Medium	
Pattern Type	Texture	
Coordinating Group	Coordinate Group 3	
Primary Backing	Non-woven synthetic fiber	
Construction	Level Loop	
GSA	Yes	
Price Range	\$	
Face Weight	18 oz/sq yd	610.2 g/sq m
Gauge	1/13	50.4 rows/ 10 cm
Stitches Per Inch	8.2 stitches / inch	32.3 stitches/10 cm
Pile Height Average	0.117 inch	3.0 mm
Fiber System	Dynex SDÆ Nylon / DynexÆ Nylon	
Dye Method	50% Solution Dyed / 50% Yarn Dyed	
Fluorine-Free Soil Protection	Eco-Ensure	
Pattern Match	Not required	
Colorfastness to Light	> 4 after 60 hours (AATCC 16E)	
Soil Protection	Application rate: 2% of face weight	
Electrostatic Propensity	2.2 kV (AATCC 134); Permanent Conductive Fiber	
Surface Flammability	Passes CPSC FF 1-70 (ASTM D-2859)	
Smoke Generation	Less than 450 (ASTM E-662)	



Environmental Attributes

Recycled Content	Yes
ER3 Note	Recycled content percentages are third-party certified annually based on the prior year's formulations and use. Recycled content specifications may be changed without notice when formulations are modified due to, for example, new manufacturing capabilities, environmental efficiencies, or postconsumer market availability.
Antimicrobial Chemicals	No antimicrobials (EPA Registered pesticides) added to product (ASTM E2471-05)

Performance Testing

Flooring Radiant Panel	Class 1 (mean average CRF: 0.45 w/sq cm or higher) (ASTM E-648)
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Installation Methods

Installation Method	Monolithic / Vertical Ashlar - 18" X 36"
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Face Construction	Imperial	Metric
Construction	Level Loop	
Face Weight	20 oz/sq yd	678 g/sq m
Gauge	1/13	50.4 rows/10 cm
Stitches per Inch	8.4	33.1 pu/10 cm
Tuft Density	107.5 tufts/sq in	16.7 tufts/sq cm
Pile Height Average	0.117 inch	3.0 mm
Pile Thickness	0.074 inch	1.9 mm
Density Factor	9,730 oz/cu yd	360.0 kg/cu m
Fiber System	Antron® Legacy Nylon	
Dye Method	85% Solution Dyed / 15% Yarn Dyed	
Soil/Stain Protection	Ensure	10 Kilotex
Primary Tufting Substrate	Synthetic Non-Woven	

Third Party Environmental Certifications

Product		Recycled Content		NSF 140
		Overall	Post-Consumer	
Certified	ER3® Modular	44-65%	12%	Platinum
Certified	Powerbond® ethos™ Cushion	36-61%	36%	Platinum
Certified	Powerbond® ER3® Cushion	39-59%	12%	Platinum
Certified	ethos™ Modular	26-50%	15%	Platinum
Certified	Powerbond® Cushion	6-28%	6%	Gold
Certified	Powerbond® Medfloor	6-28%	6%	
Certified	Flex-Aire™ Cushion Modular	15-33%		

**Recycled content certified by SCS and varies by product style.

Product Testing/Information

Antimicrobial Chemicals	No antimicrobials (EPA Registered pesticides) added to product (ASTM E2471-05)
Electrostatic Propensity	1.2 kV (AATCC 134); Permanent Conductive Fiber
Surface Flammability	Passes CPSC FF 1-70 (ASTM D-2859)
Flooring Radiant Panel	Class 1 (mean average CRF: 0.45 w/sq cm or higher) (ASTM E-648)
Smoke Generation	Less than 450 (ASTM E-662)
Colorfastness to Light	≥ 4 after 60 hours (AATCC 16E)
Fluorine	Minimum 200 ppm (CRI TM-102)

Installation Methods

Peel and Stick	RS Adhesive System - Full Coverage Peel & Stick
Wet Spread	Backing specific Tandus Adhesives
Installation Method	Monolithic

Product Notes

- Specifications are subject to nominal manufacturing variances. Material supply and/or manufacturing processes may necessitate changes without notice. Colors may vary slightly from dye lot to dye lot.
- U.S. Patent numbers: 4,849,297; 4,49,267; 5,728,741; 5,855,981; 5,914,353; 6,406,574
- The use of chair pads under roller caster chairs may be required in order to maintain full limited warranty coverage. Please refer to the applicable limited warranty verbiage for specific requirements. In all cases, chair pads are recommended for optimum textural performance. Absent the use of chair pads, more intensive maintenance will be required for areas in direct contact with chair caster traffic, and some degree of appearance change is to be expected.

IMPERIAL

METRIC

TEST METHOD

Warranty: 15 year limited warranty against excessive surface wear, static, delamination, edge ravel, zippering & backing resiliency loss.

ER3® Modular

Total Recycled Content	51.7%	Pre-Consumer: 38.7%	Post-Consumer: 13%	SCS Certified
Third Party Certification NSF-140	Platinum			SCS Certified
Product Size	24" x 24" Tile (18" x 18" and 36" x 36" also available)			
Secondary Backing	100% Recycled Content with Tru Bloc (Barrier System)			
Intermediate Layer	Fiberglass Reinforced Sealant			
Product Construction	No Delamination per ASTM D-3936			
Secondary Backing Density	65	lbs/cu ft	1041	kg/cu m
Secondary Backing Thickness	0.087	inch	2.2	mm
Total Weight with RS / Non-RS	132.5	130.9 oz/sq yd +/-5%	4493	4439 g/sq m
CRI Green Label Plus Certification	GLP1366			

ethos™ Modular

Total Recycled Content	31.6%	Pre-Consumer: 13.6%	Post-Consumer: 18%	SCS Certified
Third Party Certification NSF-140	Platinum			SCS Certified
Product Size	24" x 24" Tile (18" x 18" and 36" x 36" also available)			
Secondary Backing	50% Recycled Content			
Intermediate Layer	Fiberglass Reinforced Sealant			
Product Construction	No Delamination per ASTM D-3936			
Secondary Backing Density	65.0	lbs/cu ft	1041	kg/cu m
Secondary Backing Thickness	0.050	inch	1.3	mm
Total Weight	97.2	oz/sq yd +/-5%	3296.4	g/sq cm
CRI Green Label Plus Certification	GLP8320			

Flex-Aire™ Cushion Modular

Total Recycled Content	18.6%	Pre-Consumer: 18.6%	Post-Consumer: 0%	SCS Certified
Product Size	24" x 24" Tile (18" x 18" and 36" x 36" also available)			
Secondary Backing	Fiberglass Reinforced Composite Closed Cell Cushion			
Intermediate Layer	Fiberglass Reinforced Sealant			
Product Construction	No Delamination per ASTM D-3936			
Cushion Weight	35.5	oz/sq yd	1203	g/sq m
Cushion Density	18.5	lbs/cu ft	296	kg/cu m
Cushion Thickness	0.156	inch	4.0	mm
Total Weight with RS / Non-RS	121.1	119.7 oz/sq yd +/-5%	4107	4059 g/sq m
Compression Set	Max. 10%			ASTM D-3574
Compression Deflection	5 Min.	25 max lbs/sq inch @ 25%	352	1758 g/sq cm
CRI Green Label Plus Certification	GLP6558			

Conserv™ Modular

Product Size	24" x 24" Tile (18" x 18" and 36" x 36" also available)			
Secondary Backing	Thermoplastic Polymeric			
Intermediate Layer	Fiberglass Reinforced Sealant			
Product Construction	No Delamination per ASTM D-3936			
Secondary Backing Density	120	lbs/cu ft	1922	kg/cu m
Secondary Backing Thickness	0.041	inch	1.0	mm
Total Weight	99.2	oz/sq yd +/-5%	3364	g/sq cm
CRI Green Label Plus Certification	GLP1366			



Powerbond® (VCTT Sheet Flooring)

Product Construction
Powerbond Options

	IMPERIAL		METRIC		TEST METHOD
Warranty: 25 year non-prorated limited warranty against excessive surface wear, static, delamination, edge ravel, zippering & backing resiliency loss.					
Powerbond ethos™ Cushion					
Total Product Recycled Content	41.3%	Pre-Consumer: 0%	Post-Consumer: 41.3%		SCS Certified
Third Party Certification NSF-140	Platinum				SCS Certified
Product Size	6 ft.		1.8 m		
Cushion	76% Recycled Content Closed Cell Cushion				
Heterogeneous Construction	No Delamination per ASTM D-3936				
Cushion Density	32	lbs/cu ft	513	kg/cu m	ASTM D-3574
Cushion Thickness	0.100	inch	2.5	mm	ASTM D-3574
Total Weight	88.6	oz/sq yd +/-5%	3005	g/sq m	
Compression Set	Max. 10%				ASTM D-3574
Compression Deflection	29	lbs/sq inch @ 25%	2039	g/sq cm	ASTM D-3574
CRI Green Label Plus Certification	GLP8320				
Powerbond ER3® Cushion					
Total Product Recycled Content	43.7%	Pre-Consumer: 31.7%	Post-Consumer: 12%		SCS Certified
Third Party Certification NSF-140	Platinum				SCS Certified
Product Size	6 ft.		1.8 m		
Cushion	98% Recycled Content Closed Cell Cushion				
Heterogeneous Construction	No Delamination per ASTM D-3936				
Cushion Density	28.5	lbs/cu ft	457	kg/cu m	ASTM D-3574
Cushion Thickness	0.125	inch	3.2	mm	ASTM D-3574
Total Weight	106.6	oz/sq yd +/-5%	3615	g/sq m	
Compression Set	Max. 10%				ASTM D-3574
Compression Deflection	7 Min. 25 max	lbs/sq inch @ 25%	492 1758	g/sq cm	ASTM D-3574
CRI Green Label Plus Certification	GLP8030				
Powerbond Cushion					
Total Product Recycled Content	7.2%	Pre-Consumer: 0%	Post-Consumer: 7.2%		SCS Certified
Third Party Certification NSF-140	Gold				SCS Certified
Product Size	6 ft.		1.8 m		
Cushion	Closed Cell Cushion				
Heterogeneous Construction	No Delamination per ASTM D-3936				
Cushion Weight	35.5	oz/sq yd	1203	g/sq m	ASTM D-3574
Cushion Density	18.5	lbs/cu ft	296	kg/cu m	ASTM D-3574
Cushion Thickness	0.156	inch	4.0	mm	ASTM D-3574
Total Weight with RS / Non-RS	83.0 80.7	oz/sq yd +/-5%	2815 2737	g/sq m	
Compression Set	Max. 10%				ASTM D-3574
Compression Deflection	7 Min. 25 max	lbs/sq inch @ 25%	492 1758	g/sq cm	ASTM D-3574
CRI Green Label Plus Certification	GLP9744				
Powerbond Medfloor					
Total Product Recycled Content	7.4%	Pre-Consumer: 0%	Post-Consumer: 7.4%		SCS Certified
Product Size	6 ft.		1.8 m		
Cushion	Medfloor				
Heterogeneous Construction	No Delamination per ASTM D-3936				
Cushion Weight	37	oz/sq yd	1254	g/sq m	ASTM D-3574
Cushion Density	36	lbs/cu ft	577	kg/cu m	ASTM D-3574
Cushion Thickness	0.085	inch	2.2	mm	ASTM D-3574
Total Weight with RS / Non-RS	84.9 82.2	oz/sq yd +/-5%	2879 2788	g/sq m	
Compression Set	Max. 10%				ASTM D-3574
Compression Deflection	29	lbs/sq inch @ 25%	2039	g/sq cm	ASTM D-3574
CRI Green Label Plus Certification	GLP9744				



Product Specifications

Product Size	24" x 24" Tile		
Stain Resistance	>8 (AATCC 175-08 Stain Resistance Pile Floor Coverings)		
Dynex SD Stain Warranty	Lifetime Limited Stain Resistance Dynex SD Stain		
Platform Sizes	24" x 24" Tile		
Pattern Scale	Large		
Pattern Type	Geometric		
Collection	Big City Bright Lights		
Coordinating Group	Coordinate Group 6		
Primary Backing	Non-woven synthetic fiber		
Construction	StratatecÆ Patterned Loop		
GSA	Yes		
Price Range	\$		
Gauge	5/64		50.4 rows/ 10 cm
Stitches Per Inch	10.0 stitches / inch		39.4 stitches/10 cm
Pile Height Average	0.187 inch		4.8 mm
Fiber System	Dynex SDÆ Nylon(Permanent Stain Resistance)		
Dye Method	100% Solution Dyed		
Fluorine-Free Soil Protection	Eco-Ensure		
Pattern Match	Not required		
TARR	3.6 Severe Traffic Classification per CRI Texture Appearance Retention Rating		
Colorfastness to Light	> 4 after 100 hours (AATCC 16E)		
Soil Protection	Application rate: 2% of face weight		
Electrostatic Propensity	1.8 kV (AATCC 134); Permanent Conductive Fiber		
Surface Flammability	Passes CPSC FF 1-70 (ASTM D-2859)		
Smoke Generation	Less than 450 (ASTM E-662)		

Big City Bright Lights



Environmental Attributes

Recycled Content	Yes
Antimicrobial Chemicals	No antimicrobials (EPA Registered pesticides) added to product (ASTM E2471-05)

Performance Testing

Flooring Radiant Panel	Class 1 (mean average CRF: 0.45 w/sq cm or higher) (ASTM E-648)
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Installation Methods

Installation Method	Quarter Turn / Horizontal Ashlar / Random
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Product Specifications

Product Size	24" x 24" Tile (18" x 18", 18" x 36" and 36" x 36" also available)	
Pattern Scale	Small	
Pattern Type	Texture	
Coordinating Group	Coordinate Group 3	
Primary Backing	Non-woven synthetic fiber	
Construction	Level Loop	
GSA	Yes	
Price Range	\$	
Face Weight	18 oz/sq yd	610.2 g/sq m
Gauge	1/13	50.4 rows/ 10 cm
Stitches Per Inch	8.5 stitches / inch	33.5 stitches/10 cm
Pile Height Average	0.117 inch	3.0 mm
Fiber System	AntronÆ Legacy Nylon	
Dye Method	60% Solution Dyed / 40% Yarn Dyed	
Fluorine-Free Soil Protection	DuraTechÆ	
Pattern Match	Not required	
Colorfastness to Light	> 4 after 60 hours (AATCC 16E)	
Soil Protection	Application rate: 2% of face weight	
Electrostatic Propensity	1.5 kV (AATCC 134); Permanent Conductive Fiber	
Surface Flammability	Passes CPSC FF 1-70 (ASTM D-2859)	
Smoke Generation	Less than 450 (ASTM E-662)	



Environmental Attributes

Recycled Content	Yes
ER3 Note	Recycled content percentages are third-party certified annually based on the prior year's formulations and use. Recycled content specifications may be changed without notice when formulations are modified due to, for example, new manufacturing capabilities, environmental efficiencies, or postconsumer market availability.
Antimicrobial Chemicals	No antimicrobials (EPA Registered pesticides) added to product (ASTM E2471-05)

Performance Testing

Flooring Radiant Panel	Class 1 (mean average CRF: 0.45 w/sq cm or higher) (ASTM E-648)
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Installation Methods

Installation Method	Monolithic / Vertical Ashlar - 18" X 36"
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Product Specifications

Reclamation	100% recyclable in the ReStartÆ Program	
Product Size	6' Roll and 24" X 24" Tile (18" x 18" and 36" x 36" also available)	
Stain Resistance	>8 (AATCC 175-08 Stain Resistance Pile Floor Coverings)	
Dynex SD Stain Warranty	Lifetime Limited Stain Resistance Dynex SD Stain	
Platform Sizes	6' Roll, 24" x 24" Tile	
Pattern Scale	Large	
Pattern Type	Organic	
Collection	Jhane Barnes	
Coordinating Group	Coordinate Group 16	
Primary Backing	Non-woven synthetic fiber	
Construction	StratatecÆ Patterned Loop	
Face Weight	20 oz/sq yd	678 g/sq m
Gauge	5/64	50.4 rows/ 10 cm
Stitches Per Inch	9.6 stitches / inch	37.8 stitches/10 cm
Pile Height Average	.140 inch	3.6 mm
Fiber System	Dynex SDÆ Nylon(Permanent Stain Resistance)	
Dye Method	100% Solution Dyed	
Fluorine-Free Soil Protection	Eco-Ensure	
Pattern Match	Not required	
Colorfastness to Light	> 4 after 100 hours (AATCC 16E)	
Soil Protection	Application rate: 2% of face weight	
Electrostatic Propensity	3.0 kV (AATCC 134); Permanent Conductive Fiber	
Surface Flammability	Passes CPSC FF 1-70 (ASTM D-2859)	
Smoke Generation	Less than 450 (ASTM E-662)	

Jhane Barnes



Environmental Attributes

Antimicrobial Chemicals	No antimicrobials (EPA Registered pesticides) added to product (ASTM E2471-05)
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Performance Testing

Flooring Radiant Panel	Class 1 (mean average CRF: 0.45 w/sq cm or higher) (ASTM E-648)
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Installation Methods

Installation Method	Vertical Ashlar
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Product Specifications

Reclamation	100% recyclable in the ReStart/E Program	
Product Size	6' Roll and 24" X 24" Tile (18" x 18" and 36" x 36" also available)	
Stain Resistance	>8 (AATCC 175-08 Stain Resistance Pile Floor Coverings)	
Dynex SD Stain Warranty	Lifetime Limited Stain Resistance Dynex SD Stain	
Platform Sizes	6' Roll, 24" x 24" Tile	
Pattern Scale	Large	
Pattern Type	Organic	
Collection	Jhane Barnes	
Coordinating Group	Coordinate Group 16	
Primary Backing	Non-woven synthetic fiber	
Construction	Stratatec/E Patterned Loop	
Face Weight	20 oz/sq yd	678 g/sq m
Gauge	5/64	50.4 rows/ 10 cm
Stitches Per Inch	9.6 stitches / inch	37.8 stitches/10 cm
Pile Height Average	.140 inch	3.6 mm
Fiber System	Dynex SD/E Nylon(Permanent Stain Resistance)	
Dye Method	100% Solution Dyed	
Fluorine-Free Soil Protection	Eco-Ensure	
Pattern Match	Not required	
Colorfastness to Light	> 4 after 100 hours (AATCC 16E)	
Soil Protection	Application rate: 2% of face weight	
Electrostatic Propensity	3.0 kV (AATCC 134); Permanent Conductive Fiber	
Surface Flammability	Passes CPSC FF 1-70 (ASTM D-2859)	
Smoke Generation	Less than 450 (ASTM E-662)	

Jhane Barnes



Environmental Attributes

Antimicrobial Chemicals	No antimicrobials (EPA Registered pesticides) added to product (ASTM E2471-05)
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Performance Testing

Flooring Radiant Panel	Class 1 (mean average CRF: 0.45 w/sq cm or higher) (ASTM E-648)
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Installation Methods

Installation Method	Vertical Ashlar
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TILE + PLANK

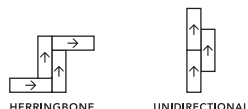
CONTOUR SERIES
ANTIQUÉ WOOD (CAN)

Tandus Centiva

A Tarkett Company

SPECIFICATIONS

Classification:	ASTM F1700 Class III Type B								
Total Thickness:	0.120" (3.0 mm)								
Wear Layer Thickness:	32 mil (0.8 mm)								
Edge Treatment:	Square (SE) or Slight Bevel (SB)								
Emboss:	Optional <table> <tr> <td>Frost (FR)</td><td>Sawn (SW)</td></tr> <tr> <td>Natural Grain (NG)</td><td>Straight Grain (ST)</td></tr> <tr> <td>Quarry (QU)</td><td>Tick (TK)</td></tr> <tr> <td>Rough (RG)</td><td></td></tr> </table>	Frost (FR)	Sawn (SW)	Natural Grain (NG)	Straight Grain (ST)	Quarry (QU)	Tick (TK)	Rough (RG)	
Frost (FR)	Sawn (SW)								
Natural Grain (NG)	Straight Grain (ST)								
Quarry (QU)	Tick (TK)								
Rough (RG)									
Warranty:	20-Year Limited Commercial Wear Warranty								
Colors:	18								
Adhesive:	Tarkett RollSmart™, CENTI 2001 Wet Set, CENTI 6000 SP, CENTI 2000 EP or other Tandus Centiva LVT preferred adhesives.								

Installation Methods:


Product shown: CAN 3720

SIZES

3" x 36" (7.62 cm x 91.44 cm)	6" x 48" (15.24 cm x 121.92 cm)
4" x 36" (10.16 cm x 91.44 cm)	7.2" x 48" (18.29 cm x 121.92 cm)
6" x 36" (15.24 cm x 91.44 cm)	9" x 36" (22.86 cm x 91.44 cm)

TESTING

Flexibility:	ASTM F137	Passes
Dimensional Stability:	ASTM F2199	Passes
Static Load:	ASTM F970	Passes
Residual Indentation:	ASTM F1914	Excellent
Flammability:	ASTM E648	CRF ≥ 0.45 watts/cm² NFPA Class 1
Slip Resistance:	ASTM D2047	Passes >0.5 ADA Compliant
Smoke Density:	ASTM E662	Passes <450 D ^{MC}
Resistance to Light:	ASTM F1515	Excellent
Chemical Resistance:	ASTM F925	Excellent
Resistance to Heat:	ASTM F1514	Excellent

ENVIRONMENTAL DATA

Recycled Content:	27.5% Preconsumer	
Materials:	No Heavy Metals; Non-Toluene Ink System	
Indoor Air Quality:	Meets CDPH Standard Method v1.1-2010; FloorScore® Certification	
Recyclability:	100% Recyclable through our ReStart® Program	
LEED Scoreboard:	LEED 2009 MRc2 Construction Waste Management MRc4 Recycled Content MRc5 Regional Materials IEQ 4.1 Low-Emitting Adhesives IEQ 4.3 Low-Emitting Materials Flooring	LEED v4 MRc2 Building Product Disclosure and Optimization – Environmental Product Declarations MRc3 Building Product Disclosure and Optimization – Sourcing of Raw Materials MRc5 Construction and Demolition Waste Management IEQc2 Low-Emitting Materials
Third-party Certification:	NSF/ANSI-332 Gold	
Manufacturing:	Made in the USA ISO 9001 Quality Management System ISO 14001 Environmental Management System OHSAS 18001 Occupational Health and Safety Management System	
Packaging:	Packaged in recycled, corrugated cardboard	



CERTIFIED BY
SCS Global Services





PRODUCT CERTIFIED
FOR REDUCED ENVI-
RONMENTAL IMPACT.
VIEW SPECIFIC ATTRI-
BUTES EVALUATED:
UL.COM/EL
NSF 332



PRODUCT CERTIFIED
FOR REDUCED ENVI-
RONMENTAL IMPACT.
VIEW SPECIFIC ATTRI-
BUTES EVALUATED:
UL.COM/EL
NSF 332

- For samples, warranties and more information, visit tandus-centiva.com or call 800.248.2878.
- Specifications are subject to nominal manufacturing variances. Material supply and/or manufacturing processes may necessitate changes without notice.
- Chair glides are recommended for optimum textural performance. Absent the use of chair glides, more intensive maintenance will be required for areas in direct contact with furniture footing, and some degree of appearance change is to be expected.

Product Specifications

Product Size	24" x 24" Tile (18" x 18", 18" x 36" and 36" x 36" also available) / 9" x 36" Plank
Series	Contour
Classification	ASTM F 1700 Class III Type B
Total Thickness	.120" (3.0 mm)
Wear Layer Thickness	32 mil
Edge Treatment	Square Edge (SE) or Slight Bevel (SB)
Emboss	Optional
Reclamation	100% recyclable in the ReStart® Program
NSF 332 Certification	Gold
Installation Direction	Click Here for PDF
Platform Sizes	12" x 12", 12" x 18", 18" x 18", 9" x 36", 12" x 36", 12" x 24"
Collection	Stone
GSA	Yes
Third Party Certification NSF-140	Platinum
Wet Spread	Backing specific Tandus Adhesives

Stone



Environmental Attributes

Total Recycled Content	.0% (.0% Pre-Consumer; .0% Post-Consumer)
Indoor Air Quality	Meets CDPH Standard Method v1.1-2010; FloorScore® Certification
CRI Green Label Plus Certification	GLP8320

Warranty Information

Warranty Information	Lifetime limited warranty against excessive surface wear, static, delamination, edge ravel, zippering and backing resiliency loss.
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TILE + PLANK

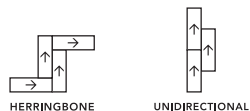
CONTOUR SERIES
NUGRAIN (CNU)

Tandus Centiva

A Tarkett Company

SPECIFICATIONS

Classification:	ASTM F1700 Class III Type B
Total Thickness:	0.120" (3.0 mm)
Wear Layer Thickness:	32 mil (0.8 mm)
Edge Treatment:	Square (SE) or Slight Bevel (SB)
Emboss:	Standard Tick (TK) <i>Others available</i>
Warranty:	20-Year Limited Commercial Wear Warranty
Colors:	8
Adhesive:	Tarkett RollSmart™, CENTI 2001 Wet Set, CENTI 6000 SP, CENTI 2000 EP or other Tandus Centiva LVT preferred adhesives.

Installation Methods:


HERRINGBONE

UNIDIRECTIONAL



Product shown: CNU 3717

SIZES	3" x 36" (7.62 cm x 91.44 cm) 4" x 36" (10.16 cm x 91.44 cm) 6" x 36" (15.24 cm x 91.44 cm)	6" x 48" (15.24 cm x 121.92 cm) 7.2" x 48" (18.29 cm x 121.92 cm) 9" x 36" (22.86 cm x 91.44 cm)
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TESTING

Flexibility:	ASTM F137	Passes
Dimensional Stability:	ASTM F2199	Passes
Static Load:	ASTM F970	Passes
Residual Indentation:	ASTM F1914	Excellent
Flammability:	ASTM E648	CRF≥0.45 watts/cm² NFPA Class 1
Slip Resistance:	ASTM D2047	Passes >0.5 ADA Compliant
Smoke Density:	ASTM E662	Passes <450 D ^{MC}
Resistance to Light:	ASTM F1515	Excellent
Chemical Resistance:	ASTM F925	Excellent
Resistance to Heat:	ASTM F1514	Excellent

ENVIRONMENTAL DATA

Recycled Content:	27.5% Preconsumer	
Materials:	No Heavy Metals; Non-Toluene Ink System	
Indoor Air Quality:	Meets CDPH Standard Method v1.1-2010; FloorScore® Certification	
Recyclability:	100% Recyclable through our ReStart® Program	
LEED Scoreboard:	LEED 2009 MRc2 Construction Waste Management MRc4 Recycled Content MRc5 Regional Materials IEQ 4.1 Low-Emitting Adhesives IEQ 4.3 Low-Emitting Materials Flooring	LEED v4 MRc2 Building Product Disclosure and Optimization – Environmental Product Declarations MRc3 Building Product Disclosure and Optimization – Sourcing of Raw Materials MRc5 Construction and Demolition Waste Management IEQc2 Low-Emitting Materials
Third-party Certification:	NSF/ANSI-332 Gold	
Manufacturing:	Made in the USA ISO 9001 Quality Management System ISO 14001 Environmental Management System OHSAS 18001 Occupational Health and Safety Management System	
Packaging:	Packaged in recycled, corrugated cardboard	



PRODUCT CERTIFIED
FOR REDUCED ENVI-
RONMENTAL IMPACT.
VIEW SPECIFIC ATTRI-
BUTES EVALUATED:
UL.COM/EL
NSF 332

- For samples, warranties and more information, visit tandus-centiva.com or call 800.248.2878.
- Specifications are subject to nominal manufacturing variances. Material supply and/or manufacturing processes may necessitate changes without notice.
- Chair glides are recommended for optimum textural performance. Absent the use of chair glides, more intensive maintenance will be required for areas in direct contact with furniture footing, and some degree of appearance change is to be expected.

LVT

TILE + PLANK

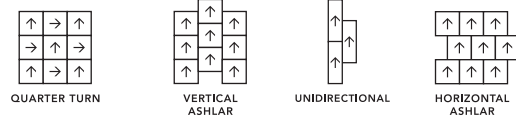
CONTOUR SERIES
VESTIGE (CVE)

SPECIFICATIONS

Classification:	ASTM F1700 Class III Type B
Total Thickness:	0.120" (3.0 mm)
Wear Layer Thickness:	32 mil (0.8 mm)
Edge Treatment:	Square (SE) or Slight Bevel (SB)
Emboss:	Standard Quarry (QU) Others available

Warranty:	20-Year Limited Commercial Wear Warranty
Colors:	5
Adhesive:	Tarkett RollSmart™, CENTI 2001 Wet Set, CENTI 6000 SP, CENTI 2000 EP or other Tandus Centiva LVT preferred adhesives.

Installation Methods:



Product shown: CVE 1016

SIZES	12"x12" (30.48 cm x 30.48 cm)	12"x36" (30.48 cm x 91.44 cm)
	12"x18" (30.48 cm x 45.72 cm)	18"x18" (45.72 cm x 45.72 cm)
	12"x24" (30.48 cm x 60.96 cm)	6"x36" (15.24 cm x 91.44 cm)
	9"x36" (22.86 cm x 91.44 cm)	

TESTING

Flexibility:	ASTM F137	Passes
Dimensional Stability:	ASTM F2199	Passes
Static Load:	ASTM F970	Passes
Residual Indentation:	ASTM F1914	Excellent
Flammability:	ASTM E648	CRF≥0.45 watts/cm² NFPA Class 1
Slip Resistance:	ASTM D2047	Passes >0.5 ADA Compliant
Smoke Density:	ASTM E662	Passes <450 D ^{MC}
Resistance to Light:	ASTM F1515	Excellent
Chemical Resistance:	ASTM F925	Excellent
Resistance to Heat:	ASTM F1514	Excellent

ENVIRONMENTAL DATA

Recycled Content:	27.5% Preconsumer	
Materials:	No Heavy Metals; Non-Toluene Ink System	
Indoor Air Quality:	Meets CDPH Standard Method v1.1-2010; FloorScore® Certification	
Recyclability:	100% Recyclable through our ReStart® Program	
LEED Scoreboard:	LEED 2009 MRc2 Construction Waste Management MRc4 Recycled Content MRc5 Regional Materials IEQ 4.1 Low-Emitting Adhesives IEQ 4.3 Low-Emitting Materials Flooring	LEED v4 MRc2 Building Product Disclosure and Optimization – Environmental Product Declarations MRc3 Building Product Disclosure and Optimization – Sourcing of Raw Materials MRc5 Construction and Demolition Waste Management IEQc2 Low-Emitting Materials
Third-party Certification:	NSF/ANSI-332 Gold	
Manufacturing:	Made in the USA ISO 9001 Quality Management System ISO 14001 Environmental Management System OHSAS 18001 Occupational Health and Safety Management System	
Packaging:	Packaged in recycled, corrugated cardboard	

- For samples, warranties and more information, visit tandus-centiva.com or call 800.248.2878.
- Specifications are subject to nominal manufacturing variances. Material supply and/or manufacturing processes may necessitate changes without notice.
- Chair glides are recommended for optimum textural performance. Absent the use of chair glides, more intensive maintenance will be required for areas in direct contact with furniture footing, and some degree of appearance change is to be expected.

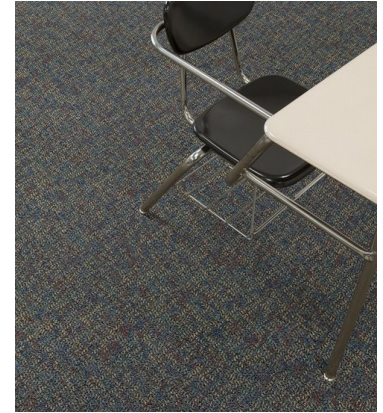


PRODUCT CERTIFIED
 FOR REDUCED ENVI-
 RONMENTAL IMPACT.
 VIEW SPECIFIC ATTRI-
 BUTES EVALUATED:
 UL.COM/EL
 NSF 332



Product Specifications

Product Size	6' Roll and 24" x 24" Tile (18" x 18", 18" x 36" and 36" x 36" also available)	
Platform Sizes	18" x 18" Tile, 36" x 36" Tile, 6' Roll, 24" x 24" Tile	
Pattern Scale	Small	
Pattern Type	Texture	
Coordinating Group	Coordinate Group 3	
Primary Backing	Non-woven synthetic fiber	
Construction	Level Loop	
GSA	Yes	
Price Range	\$	
Face Weight	18 oz/sq yd	610.2 g/sq m
Gauge	1/13	50.4 rows/ 10 cm
Stitches Per Inch	8.5 stitches / inch	33.5 stitches/10 cm
Pile Height Average	0.117 inch	3.0 mm
Fiber System	Dynex SDÆ Nylon / DynexÆ Nylon	
Dye Method	60% Solution Dyed / 40% Yarn Dyed	
Fluorine-Free Soil Protection	Eco-Ensure	
Pattern Match	Not required	
Colorfastness to Light	> 4 after 60 hours (AATCC 16E)	
Soil Protection	Application rate: 2% of face weight	
Electrostatic Propensity	2.0 kV (AATCC 134); Permanent Conductive Fiber	
Surface Flammability	Passes CPSC FF 1-70 (ASTM D-2859)	
Smoke Generation	Less than 450 (ASTM E-662)	



Environmental Attributes

Recycled Content	Yes
ER3 Note	Recycled content percentages are third-party certified annually based on the prior year's formulations and use. Recycled content specifications may be changed without notice when formulations are modified due to, for example, new manufacturing capabilities, environmental efficiencies, or postconsumer market availability.
Antimicrobial Chemicals	No antimicrobials (EPA Registered pesticides) added to product (ASTM E2471-05)

Performance Testing

Flooring Radiant Panel	Class 1 (mean average CRF: 0.45 w/sq cm or higher) (ASTM E-648)
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Installation Methods

Installation Method	Monolithic / Vertical Ashlar - 18" X 36"
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TILE + PLANK

SPECIFICATIONS

EVENT SERIES CLASSIC PLANK (ECK)

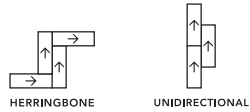
Tandus Centiva

A Tarkett Company

SPECIFICATIONS

Classification:	ASTM F1700 Class III Type B
Total Thickness:	0.120" (3.0 mm)
Wear Layer Thickness:	30 mil (0.76 mm)
Edge Treatment:	Square (SE), optional Slight Bevel (SB)
Emboss:	Standard
	Frost (FR) (BB32 only)
	Third Grain (TG) (3321, OL03, OL05, OL07)
	Natural Grain (NG) (all except the above colors)
Warranty:	20-Year Limited Commercial Wear Warranty
Colors:	11
Adhesive:	CENTI 2001 Wet Set, CENTI 6000 SP, CENTI 2000 EP or other Tandus Centiva LVT preferred adhesives.

Installation Methods:



SIZES	4" x 36" (10.16 cm x 91.44 cm)
	6" x 36" (15.24 cm x 91.44 cm)

TESTING

Flexibility:	ASTM F137	Passes
Dimensional Stability:	ASTM F2199	Passes
Static Load:	ASTM F970	Passes
Residual Indentation:	ASTM F1914	Excellent
Flammability:	ASTM E648	CRF \geq 0.45 watts/cm ² NFPA Class 1
Slip Resistance:	ASTM D2047	Passes >0.5 ADA Compliant
Smoke Density:	ASTM E662	Passes <450 D ^{MC}
Resistance to Light:	ASTM F1515	Excellent
Chemical Resistance:	ASTM F925	Excellent
Resistance to Heat:	ASTM F1514	Excellent

ENVIRONMENTAL DATA

Materials:	No Heavy Metals; Non-Toluene Ink System
Indoor Air Quality:	Meets CDPH Standard Method v1.1-2010; FloorScore® Certification
Recyclability:	100% Recyclable through our ReStart® Program
LEED Scoreboard:	LEED 2009
	MRc2 Construction Waste Management
	MRc5 Regional Materials
	IEQ 4.1 Low-Emitting Adhesives
	IEQ 4.3 Low-Emitting Materials Flooring
Manufacturing:	ISO 9001 Quality Management System
	ISO 14001 Environmental Management System
	OHSAS 18001 Occupational Health and Safety Management System
Packaging:	Packaged in recycled, corrugated cardboard

QUICKSHIP PROGRAM

 All colors in this style

LEED v4
MRc2 Building Product Disclosure and Optimization – Environmental Product Declarations
MRc3 Building Product Disclosure and Optimization – Sourcing of Raw Materials
MRc5 Construction and Demolition Waste Management
IEQc2 Low-Emitting Materials



- For samples, warranties and more information, visit tandus-centiva.com or call 800.248.2878.
- Specifications are subject to nominal manufacturing variances. Material supply and/or manufacturing processes may necessitate changes without notice.
- Chair glides are recommended for optimum textural performance. Absent the use of chair glides, more intensive maintenance will be required for areas in direct contact with furniture footing, and some degree of appearance change is to be expected.



TILE + PLANK

EVENT SERIES
CLASSIC STONE (ECL)

Tandus Centiva

A Tarkett Company

SPECIFICATIONS

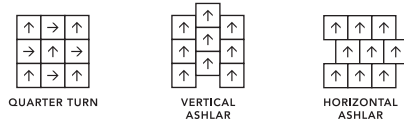
Classification:	ASTM F1700 Class III Type B
Total Thickness:	0.120" (3.0 mm)
Wear Layer Thickness:	30 mil (0.76 mm)
Edge Treatment:	Square (SE), optional Slight Bevel (SB)
Emboss:	Standard
	Frost (FR) (7101, 7102, 7112, 7126, 7127)
	Quarry (QU) (7106, 7107, 7133)

Warranty:	20-Year Limited Commercial Wear Warranty
Colors:	8
Adhesive:	CENTI 2001 Wet Set, CENTI 6000 SP, CENTI 2000 EP or other Tandus Centiva LVT preferred adhesives.

Installation Methods:

Product specific.

Please see tandus-centiva.com for more information.



SIZES	12"x18" (30.48 cm x 45.72 cm)
	18"x18" (45.72 cm x 45.72 cm)

TESTING

Flexibility:	ASTM F137	Passes
Dimensional Stability:	ASTM F2199	Passes
Static Load:	ASTM F970	Passes
Residual Indentation:	ASTM F1914	Excellent
Flammability:	ASTM E648	CRF \geq 0.45 watts/cm ² NFPA Class 1
Slip Resistance:	ASTM D2047	Passes >0.5 ADA Compliant
Smoke Density:	ASTM E662	Passes <450 D ^{MC}
Resistance to Light:	ASTM F1515	Excellent
Chemical Resistance:	ASTM F925	Excellent
Resistance to Heat:	ASTM F1514	Excellent

ENVIRONMENTAL DATA

Materials:	No Heavy Metals; Non-Toluene Ink System
Indoor Air Quality:	Meets CDPH Standard Method v1.1-2010; FloorScore® Certification
Recyclability:	100% Recyclable through our ReStart® Program
LEED Scoreboard:	LEED 2009
	MRc2 Construction Waste Management
	MRc5 Regional Materials
	IEQ 4.1 Low-Emitting Adhesives
	IEQ 4.3 Low-Emitting Materials Flooring
Manufacturing:	ISO 9001 Quality Management System
	ISO 14001 Environmental Management System
	OHSAS 18001 Occupational Health and Safety Management System
Packaging:	Packaged in recycled, corrugated cardboard

QUICKSHIP PROGRAM

All colors in this style

LEED v4

MRc2 Building Product Disclosure and Optimization – Environmental Product Declarations

MRc3 Building Product Disclosure and Optimization – Sourcing of Raw Materials

MRc5 Construction and Demolition Waste Management

IEQc2 Low-Emitting Materials



- For samples, warranties and more information, visit tandus-centiva.com or call 800.248.2878.
- Specifications are subject to nominal manufacturing variances. Material supply and/or manufacturing processes may necessitate changes without notice.
- Chair glides are recommended for optimum textural performance. Absent the use of chair glides, more intensive maintenance will be required for areas in direct contact with furniture footing, and some degree of appearance change is to be expected.

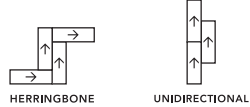
LVT

TILE + PLANK

EVENT SERIES
HERITAGE PLANK (EHP)

SPECIFICATIONS

Classification:	ASTM F1700 Class III Type B
Total Thickness:	0.120" (3.0 mm)
Wear Layer Thickness:	30 mil (0.76 mm)
Edge Treatment:	Square (SE), optional Slight Bevel (SB)
Emboss:	Standard
	Natural Grain (NG) (GW38 only)
	Rustic (RU) (3350, 3352, 3354)
	Third Grain (TG) (GW29 only)
	Weathered Grain (WE) (3208, 3209)
Warranty:	20-Year Limited Commercial Wear Warranty
Colors:	7
Adhesive:	CENTI 2001 Wet Set, CENTI 6000 SP, CENTI 2000 EP or other Tandus Centiva LVT preferred adhesives.
Installation Methods:	



Product shown: EHP 3350

SIZES	4" x 36" (10.16 cm x 91.44 cm)
	6" x 36" (15.24 cm x 91.44 cm)

TESTING

Flexibility:	ASTM F137	Passes
Dimensional Stability:	ASTM F2199	Passes
Static Load:	ASTM F970	Passes
Residual Indentation:	ASTM F1914	Excellent
Flammability:	ASTM E648	CRF \geq 0.45 watts/cm ² NFPA Class 1
Slip Resistance:	ASTM D2047	Passes >0.5 ADA Compliant
Smoke Density:	ASTM E662	Passes <450 D ^{MC}
Resistance to Light:	ASTM F1515	Excellent
Chemical Resistance:	ASTM F925	Excellent
Resistance to Heat:	ASTM F1514	Excellent

ENVIRONMENTAL DATA

Materials:	No Heavy Metals; Non-Toluene Ink System
Indoor Air Quality:	Meets CDPH Standard Method v1.1-2010; FloorScore® Certification
Recyclability:	100% Recyclable through our ReStart® Program
LEED Scoreboard:	LEED 2009
	MRc2 Construction Waste Management
	MRc5 Regional Materials
	IEQ 4.1 Low-Emitting Adhesives
	IEQ 4.3 Low-Emitting Materials Flooring
Manufacturing:	ISO 9001 Quality Management System
	ISO 14001 Environmental Management System
	OHSAS 18001 Occupational Health and Safety Management System
Packaging:	Packaged in recycled, corrugated cardboard

QUICKSHIP PROGRAM

 All colors in this style

LEED v4
MRc2 Building Product Disclosure and Optimization – Environmental Product Declarations
MRc3 Building Product Disclosure and Optimization – Sourcing of Raw Materials
MRc5 Construction and Demolition Waste Management
IEQc2 Low-Emitting Materials



- For samples, warranties and more information, visit tandus-centiva.com or call 800.248.2878.
- Specifications are subject to nominal manufacturing variances. Material supply and/or manufacturing processes may necessitate changes without notice.
- Chair glides are recommended for optimum textural performance. Absent the use of chair glides, more intensive maintenance will be required for areas in direct contact with furniture footing, and some degree of appearance change is to be expected.



Product Specifications

Product Size	6' Roll and 24" x 24" Tile (18" x 18", 18" x 36" and 36" x 36" also available)	
Pattern Scale	Small	
Pattern Type	Texture	
Coordinating Group	Coordinate Group 3	
Primary Backing	Non-woven synthetic fiber	
Construction	Level Loop	
Price Range	\$	
Gauge	1/13	50.4 rows/ 10 cm
Stitches Per Inch	8.8 stitches / inch	34.6 stitches/10 cm
Pile Height Average	0.109 inch	2.8 mm
Fiber System	Dynex SDÆ Nylon / DynexÆ Nylon	
Dye Method	55% Solution Dyed / 45% Yarn Dyed	
Fluorine-Free Soil Protection	Eco-Ensure	
Pattern Match	Not required	
TARR	3.5 Severe Traffic Classification per CRI Texture Appearance Retention Rating	
Colorfastness to Light	> 4 after 60 hours (AATCC 16E)	
Soil Protection	Application rate: 2% of face weight	
Electrostatic Propensity	2.0 kV (AATCC 134); Permanent Conductive Fiber	
Surface Flammability	Passes CPSC FF 1-70 (ASTM D-2859)	
Smoke Generation	Less than 450 (ASTM E-662)	



Environmental Attributes

Recycled Content	Yes
ER3 Note	Recycled content percentages are third-party certified annually based on the prior year's formulations and use. Recycled content specifications may be changed without notice when formulations are modified due to, for example, new manufacturing capabilities, environmental efficiencies, or postconsumer market availability.
Antimicrobial Chemicals	No antimicrobials (EPA Registered pesticides) added to product (ASTM E2471-05)

Performance Testing

Flooring Radiant Panel	Class 1 (mean average CRF: 0.45 w/sq cm or higher) (ASTM E-648)
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Installation Methods

Installation Method	Monolithic / Vertical Ashlar - 18" X 36"
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Product Specifications

Product Size	6' Roll and 24" x 24" Tile (18" x 18", 18" x 36" and 36" x 36" also available)	
Pattern Scale	Small	
Pattern Type	Texture	
Coordinating Group	Coordinate Group 3	
Primary Backing	Non-woven synthetic fiber	
Construction	Level Loop	
Price Range	\$	
Gauge	1/13	50.4 rows/ 10 cm
Stitches Per Inch	8.8 stitches / inch	34.6 stitches/10 cm
Pile Height Average	0.109 inch	2.8 mm
Fiber System	Dynex SDÆ Nylon / DynexÆ Nylon	
Dye Method	55% Solution Dyed / 45% Yarn Dyed	
Fluorine-Free Soil Protection	Eco-Ensure	
Pattern Match	Not required	
TARR	3.5 Severe Traffic Classification per CRI Texture Appearance Retention Rating	
Colorfastness to Light	> 4 after 60 hours (AATCC 16E)	
Soil Protection	Application rate: 2% of face weight	
Electrostatic Propensity	2.0 kV (AATCC 134); Permanent Conductive Fiber	
Surface Flammability	Passes CPSC FF 1-70 (ASTM D-2859)	
Smoke Generation	Less than 450 (ASTM E-662)	



Environmental Attributes

Recycled Content	Yes
ER3 Note	Recycled content percentages are third-party certified annually based on the prior year's formulations and use. Recycled content specifications may be changed without notice when formulations are modified due to, for example, new manufacturing capabilities, environmental efficiencies, or postconsumer market availability.
Antimicrobial Chemicals	No antimicrobials (EPA Registered pesticides) added to product (ASTM E2471-05)

Performance Testing

Flooring Radiant Panel	Class 1 (mean average CRF: 0.45 w/sq cm or higher) (ASTM E-648)
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Installation Methods

Installation Method	Monolithic / Vertical Ashlar - 18" X 36"
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Product Specifications

Product Size	24" X 24" Tile (18" x 18" and 36" x 36" also available)	
Total Product Thickness	0.315 in (8.0010 mm)	
Pattern Scale	Medium	
Pattern Type	Linear	
Collection	Jhane Barnes	
Coordinating Group	Coordinate Group 16	
Primary Backing	Non-woven synthetic fiber	
Construction	Stratatec® Patterned Loop	
GSA	Yes	
Price Range	\$	
Gauge	5/64	50.4 rows/ 10 cm
Stitches Per Inch	9.8 stitches / inch	38.6 stitches/10 cm
Pile Height Average	0.187 inch	4.8 mm
Fiber System	TDX® Nylon	
Dye Method	100% Solution Dyed	
Fluorine-Free Soil Protection	Eco-Ensure	
Pattern Match	Not required	
TARR	3.5 Severe Traffic Classification per CRI Texture Appearance Retention Rating	
Colorfastness to Light	> 4 after 100 hours (AATCC 16E)	
Soil Protection	Application rate: 2% of face weight	
Third Party Certification NSF-140	Platinum	
Electrostatic Propensity	1.9 kV (AATCC 134); Permanent Conductive Fiber	
Surface Flammability	Passes CPSC FF 1-70 (ASTM D-2859)	
Smoke Generation	Less than 450 (ASTM E-662)	
Peel and Stick	RS Adhesive System - Full Coverage Peel & Stick	

Jhane Barnes



Environmental Attributes

Total Recycled Content	55.3% (38.1% Pre-Consumer; 17.2% Post-Consumer)
Recycled Content	Yes
ER3 Note	Recycled content percentages are third-party certified annually based on the prior year's formulations and use. Recycled content specifications may be changed without notice when formulations are modified due to, for example, new manufacturing capabilities, environmental efficiencies, or postconsumer market availability.
CRI Green Label Plus Certification	GLP1366
Antimicrobial Chemicals	No antimicrobials (EPA Registered pesticides) added to product (ASTM E2471-05)

Performance Testing

Flooring Radiant Panel	Class 1 (mean average CRF: 0.45 w/sq cm or higher) (ASTM E-648)
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Installation Methods

Installation Method	Quarter Turn / Random / Vertical Ashlar - 18" X 36"
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Warranty Information

SPECIFICATIONS

Warranty Information

Lifetime limited warranty against excessive surface wear, static, delamination, edge ravel, zippering and backing resiliency loss.


Product Specifications

Product Size	6' Roll	1.8 m
Total Product Thickness	0.384 in (9.7536 mm)	
Pattern Scale	Medium	
Pattern Type	Linear	
Collection	Jhane Barnes	
Coordinating Group	Coordinate Group 16	
Primary Backing	Non-woven synthetic fiber	
Construction	Stratatec® Patterned Loop	
GSA	Yes	
Price Range	\$	
Gauge	5/64	50.4 rows/ 10 cm
Stitches Per Inch	9.8 stitches / inch	38.6 stitches/10 cm
Pile Height Average	0.187 inch	4.8 mm
Fiber System	TDX® Nylon	
Dye Method	100% Solution Dyed	
Fluorine-Free Soil Protection	Eco-Ensure	
Pattern Match	Not required	
TARR	3.5 Severe Traffic Classification per CRI Texture Appearance Retention Rating	
Colorfastness to Light	> 4 after 100 hours (AATCC 16E)	
Soil Protection	Application rate: 2% of face weight	
Third Party Certification NSF-140	Gold	
Electrostatic Propensity	1.9 kV (AATCC 134); Permanent Conductive Fiber	
Surface Flammability	Passes CPSC FF 1-70 (ASTM D-2859)	
Smoke Generation	Less than 450 (ASTM E-662)	
Peel and Stick	RS Adhesive System - Full Coverage Peel & Stick	

Jhane Barnes


Environmental Attributes

Total Recycled Content	8.9% (.0% Pre-Consumer; 8.9% Post-Consumer)
Recycled Content	Yes
ER3 Note	Recycled content percentages are third-party certified annually based on the prior year's formulations and use. Recycled content specifications may be changed without notice when formulations are modified due to, for example, new manufacturing capabilities, environmental efficiencies, or postconsumer market availability.
CRI Green Label Plus Certification	GLP9744
Antimicrobial Chemicals	No antimicrobials (EPA Registered pesticides) added to product (ASTM E2471-05)

Performance Testing

Flooring Radiant Panel	Class 1 (mean average CRF: 0.45 w/sq cm or higher) (ASTM E-648)
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Installation Methods

Installation Method	Quarter Turn / Random / Vertical Ashlar - 18" X 36"
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Warranty Information

SPECIFICATIONS

Warranty Information

Lifetime limited warranty against excessive surface wear, static, delamination, edge ravel, zippering and backing resiliency loss.



Product Specifications

Product Size	24" X 24" Tile (18" x 18" and 36" x 36" also available)	□
Total Product Thickness	0.222 in (5.6388 mm)	
Pattern Scale	Small	
Pattern Type	Texture	
Coordinating Group	Coordinate Group 14	
Primary Backing	Non-woven synthetic fiber	
Construction	Level Loop	
GSA	Yes	
Price Range	\$\$	
Face Weight	20 oz/sq yd	678 g/sq m
Gauge	1/13	50.4 rows/ 10 cm
Stitches Per Inch	9.5 stitches / inch	37.4 stitches/10 cm
Pile Height Average	0.117 inch	3.0 mm
Fiber System	TDX® Nylon	
Dye Method	60% Solution Dyed / 40% Yarn Dyed	
Fluorine-Free Soil Protection	Eco-Ensure	
Pattern Match	Not required	
Colorfastness to Light	> 4 after 60 hours (AATCC 16E)	
Soil Protection	Application rate: 2% of face weight	
Third Party Certification NSF-140	Platinum	
Electrostatic Propensity	2.0 kV (AATCC 134); Permanent Conductive Fiber	
Surface Flammability	Passes CPSC FF 1-70 (ASTM D-2859)	
Smoke Generation	Less than 450 (ASTM E-662)	
Peel and Stick	RS Adhesive System - Full Coverage Peel & Stick	

Environmental Attributes

Total Recycled Content	52.8% (36.3% Pre-Consumer; 16.5% Post-Consumer)
Recycled Content	Yes
ER3 Note	Recycled content percentages are third-party certified annually based on the prior year's formulations and use. Recycled content specifications may be changed without notice when formulations are modified due to, for example, new manufacturing capabilities, environmental efficiencies, or postconsumer market availability.
CRI Green Label Plus Certification	GLP1366
Antimicrobial Chemicals	No antimicrobials (EPA Registered pesticides) added to product (ASTM E2471-05)

Performance Testing

Flooring Radiant Panel	Class 1 (mean average CRF: 0.45 w/sq cm or higher) (ASTM E-648)
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Installation Methods

Installation Method	Monolithic / Vertical Ashlar - 18" X 36"
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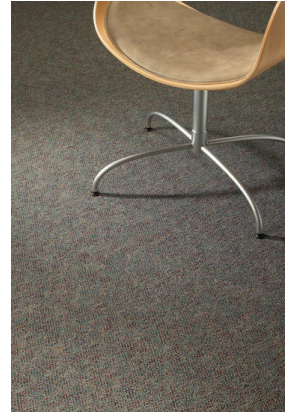
Warranty Information

Warranty Information	Lifetime limited warranty against excessive surface wear, static, delamination, edge ravel, zippering and backing resiliency loss.
Portable, Modular and Pre-Fabricated Solutions - Piggyback No. 5	



Product Specifications

Product Size	6' Roll	1.8 m
Total Product Thickness	0.291 in (7.3914 mm)	
Pattern Scale	Small	
Pattern Type	Texture	
Coordinating Group	Coordinate Group 14	
Primary Backing	Non-woven synthetic fiber	
Construction	Level Loop	
GSA	Yes	
Price Range	\$\$	
Face Weight	20 oz/sq yd	678 g/sq m
Gauge	1/13	50.4 rows/ 10 cm
Stitches Per Inch	9.5 stitches / inch	37.4 stitches/10 cm
Pile Height Average	0.117 inch	3.0 mm
Fiber System	TDX® Nylon	
Dye Method	60% Solution Dyed / 40% Yarn Dyed	
Fluorine-Free Soil Protection	Eco-Ensure	
Pattern Match	Not required	
Colorfastness to Light	> 4 after 60 hours (AATCC 16E)	
Soil Protection	Application rate: 2% of face weight	
Third Party Certification NSF-140	Gold	
Electrostatic Propensity	2.0 kV (AATCC 134); Permanent Conductive Fiber	
Surface Flammability	Passes CPSC FF 1-70 (ASTM D-2859)	
Smoke Generation	Less than 450 (ASTM E-662)	
Peel and Stick	RS Adhesive System - Full Coverage Peel & Stick	



Environmental Attributes

Total Recycled Content	8.2% (.0% Pre-Consumer; 8.2% Post-Consumer)
Recycled Content	Yes
ER3 Note	Recycled content percentages are third-party certified annually based on the prior year's formulations and use. Recycled content specifications may be changed without notice when formulations are modified due to, for example, new manufacturing capabilities, environmental efficiencies, or postconsumer market availability.
CRI Green Label Plus Certification	GLP9744
Antimicrobial Chemicals	No antimicrobials (EPA Registered pesticides) added to product (ASTM E2471-05)

Performance Testing

Flooring Radiant Panel	Class 1 (mean average CRF: 0.45 w/sq cm or higher) (ASTM E-648)
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Installation Methods

Installation Method	Monolithic / Vertical Ashlar - 18" X 36"
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Warranty Information

Warranty Information	Lifetime limited warranty against excessive surface wear, static, delamination, edge ravel, zippering and backing resiliency loss.
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Product Specifications

Product Size	6' Roll	1.8 m
Total Product Thickness	0.291 in (7.3914 mm)	
Pattern Scale	Small	
Pattern Type	Texture	
Coordinating Group	Coordinate Group 14	
Primary Backing	Non-woven synthetic fiber	
Construction	Level Loop	
GSA	Yes	
Price Range	\$\$	
Face Weight	18 oz/sq yd	610.2 g/sq m
Gauge	1/13	50.4 rows/ 10 cm
Stitches Per Inch	8.3 stitches / inch	32.7 stitches/10 cm
Pile Height Average	0.117 inch	3.0 mm
Fiber System	Antron® Legacy Nylon	
Dye Method	50% Solution Dyed / 50% Yarn Dyed	
Fluorine-Free Soil Protection	DuraTech®	
Pattern Match	Not required	
Colorfastness to Light	> 4 after 60 hours (AATCC 16E)	
Soil Protection	Application rate: 2% of face weight	
Third Party Certification NSF-140	Gold	
Electrostatic Propensity	1.6 kV (AATCC 134); Permanent Conductive Fiber	
Surface Flammability	Passes CPSC FF 1-70 (ASTM D-2859)	
Smoke Generation	Less than 450 (ASTM E-662)	
Wet Spread	Backing specific Tandus Adhesives	



Environmental Attributes

Total Recycled Content	8.5% (.0% Pre-Consumer; 8.5% Post-Consumer)
Recycled Content	Yes
ER3 Note	Recycled content percentages are third-party certified annually based on the prior year's formulations and use. Recycled content specifications may be changed without notice when formulations are modified due to, for example, new manufacturing capabilities, environmental efficiencies, or postconsumer market availability.
CRI Green Label Plus Certification	GLP9744
Antimicrobial Chemicals	No antimicrobials (EPA Registered pesticides) added to product (ASTM E2471-05)

Performance Testing

Flooring Radiant Panel	Class 1 (mean average CRF: 0.45 w/sq cm or higher) (ASTM E-648)
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Installation Methods

Installation Method	Monolithic / Vertical Ashlar - 18" X 36"
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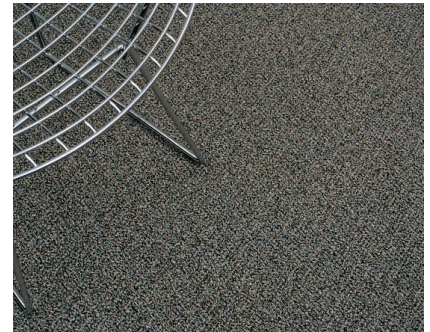
Warranty Information

Warranty Information	Lifetime limited warranty against excessive surface wear, static, delamination, edge ravel, zippering and backing resiliency loss.
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Product Specifications

Product Size	6' Roll and 24" x 24" Tile (18" x 18", 18" x 36" and 36" x 36" also available)	
Pattern Scale	Small	
Pattern Type	Texture	
Coordinating Group	Textures	
Primary Backing	Non-woven synthetic fiber	
Construction	Textured Loop	
Price Range	\$	
Face Weight	18 oz/sq yd	610.2 g/sq m
Gauge	1/13	50.4 rows/ 10 cm
Stitches Per Inch	8.8 stitches / inch	34.6 stitches/10 cm
Pile Height Average	0.117 inch	3.0 mm
Fiber System	TDX/E Nylon	
Dye Method	100% Solution Dyed	
Fluorine-Free Soil Protection	Eco-Ensure	
Pattern Match	Not required	
Colorfastness to Light	> 4 after 100 hours (AATCC 16E)	
Soil Protection	Application rate: 2% of face weight	
Electrostatic Propensity	1.0 kV (AATCC 134); Permanent Conductive Fiber	
Surface Flammability	Passes CPSC FF 1-70 (ASTM D-2859)	
Smoke Generation	Less than 450 (ASTM E-662)	



Environmental Attributes

Recycled Content	Yes
ER3 Note	Recycled content percentages are third-party certified annually based on the prior year's formulations and use. Recycled content specifications may be changed without notice when formulations are modified due to, for example, new manufacturing capabilities, environmental efficiencies, or postconsumer market availability.
Antimicrobial Chemicals	No antimicrobials (EPA Registered pesticides) added to product (ASTM E2471-05)

Performance Testing

Flooring Radiant Panel	Class 1 (mean average CRF: 0.45 w/sq cm or higher) (ASTM E-648)
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Installation Methods

Installation Method	Monolithic / Vertical Ashlar - 18" X 36"
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Product Specifications

Product Size	24" x 24" Tile		
Stain Resistance	>8 (AATCC 175-08 Stain Resistance Pile Floor Coverings)		
Dynex SD Stain Warranty	Lifetime Limited Stain Resistance Dynex SD Stain		
Platform Sizes	24" x 24" Tile		
Pattern Scale	Large		
Pattern Type	Geometric		
Collection	Big City Bright Lights		
Coordinating Group	Coordinate Group 6		
Primary Backing	Non-woven synthetic fiber		
Construction	Stratatec/E Patterned Loop		
GSA	Yes		
Price Range	\$		
Gauge	5/64		50.4 rows/ 10 cm
Stitches Per Inch	10.0 stitches / inch		39.4 stitches/10 cm
Pile Height Average	0.187 inch		4.8 mm
Fiber System	Dynex SD/E Nylon(Permanent Stain Resistance)		
Dye Method	100% Solution Dyed		
Fluorine-Free Soil Protection	Eco-Ensure		
Pattern Match	Not required		
TARR	3.8 Severe Traffic Classification per CRI Texture Appearance Retention Rating		
Colorfastness to Light	> 4 after 100 hours (AATCC 16E)		
Soil Protection	Application rate: 2% of face weight		
Electrostatic Propensity	1.8 kV (AATCC 134); Permanent Conductive Fiber		
Surface Flammability	Passes CPSC FF 1-70 (ASTM D-2859)		
Smoke Generation	Less than 450 (ASTM E-662)		

Big City Bright Lights


Environmental Attributes

Recycled Content	Yes
Antimicrobial Chemicals	No antimicrobials (EPA Registered pesticides) added to product (ASTM E2471-05)

Performance Testing

Flooring Radiant Panel	Class 1 (mean average CRF: 0.45 w/sq cm or higher) (ASTM E-648)
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Installation Methods

Installation Method	Quarter Turn / Horizontal Ashlar / Random
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Product Specifications

Reclamation	100% recyclable in the ReStartÆ Program	
Product Size	6' Roll and 24" x 24" Tile	
Platform Sizes	6' Roll, 24" x 24" Tile	
Pattern Scale	Medium	
Pattern Type	Geometric	
Collection	Jhane Barnes	
Coordinating Group	Coordinate Group 16	
Primary Backing	Non-woven synthetic fiber	
Construction	StratatecÆ Patterned Loop	
Gauge	5/64	50.4 rows/ 10 cm
Stitches Per Inch	10.0 stitches / inch	39.4 stitches/10 cm
Pile Height Average	.187 inch	4.7 mm
Fiber System	Antron LumenaÆ Nylon	
Dye Method	Solution Dyed	
Fluorine-Free Soil Protection	DuraTechÆ	
Pattern Match	Not required	
Colorfastness to Light	> 4 after 100 hours (AATCC 16E)	
Soil Protection	Application rate: 2% of face weight	
Electrostatic Propensity	3.0 kV (AATCC 134); Permanent Conductive Fiber	
Surface Flammability	Passes CPSC FF 1-70 (ASTM D-2859)	
Smoke Generation	Less than 450 (ASTM E-662)	

Jhane Barnes



Environmental Attributes

Recycled Content	Yes
ER3 Note	Recycled content percentages are third-party certified annually based on the prior year's formulations and use. Recycled content specifications may be changed without notice when formulations are modified due to, for example, new manufacturing capabilities, environmental efficiencies, or postconsumer market availability.
Antimicrobial Chemicals	No antimicrobials (EPA Registered pesticides) added to product (ASTM E2471-05)

Performance Testing

Flooring Radiant Panel	Class 1 (mean average CRF: 0.45 w/sq cm or higher) (ASTM E-648)
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Installation Methods

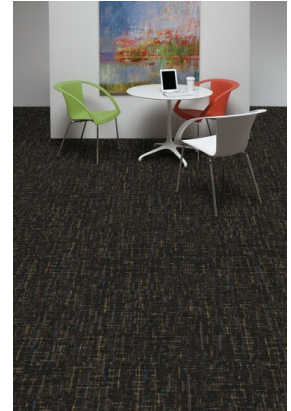
Installation Method	Vertical Ashlar
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Product Specifications

Reclamation	100% recyclable in the ReStart® Program	
Product Size	6' Roll and 24" x 24" Tile	
Platform Sizes	6' Roll, 24" x 24" Tile	
Pattern Scale	Medium	
Pattern Type	Geometric	
Collection	Jhane Barnes	
Coordinating Group	Coordinate Group 16	
Primary Backing	Non-woven synthetic fiber	
Construction	Stratatec® Patterned Loop	
Gauge	5/64	50.4 rows/ 10 cm
Stitches Per Inch	10.0 stitches / inch	39.4 stitches/10 cm
Pile Height Average	.187 inch	4.7 mm
Fiber System	Antron Lumena® Nylon	
Dye Method	Solution Dyed	
Fluorine-Free Soil Protection	DuraTech®	
Pattern Match	Not required	
Colorfastness to Light	> 4 after 100 hours (AATCC 16E)	
Soil Protection	Application rate: 2% of face weight	
Electrostatic Propensity	3.0 kV (AATCC 134); Permanent Conductive Fiber	
Surface Flammability	Passes CPSC FF 1-70 (ASTM D-2859)	
Smoke Generation	Less than 450 (ASTM E-662)	

Jhane Barnes



Environmental Attributes

Recycled Content	Yes
ER3 Note	Recycled content percentages are third-party certified annually based on the prior year's formulations and use. Recycled content specifications may be changed without notice when formulations are modified due to, for example, new manufacturing capabilities, environmental efficiencies, or postconsumer market availability.
Antimicrobial Chemicals	No antimicrobials (EPA Registered pesticides) added to product (ASTM E2471-05)

Performance Testing

Flooring Radiant Panel	Class 1 (mean average CRF: 0.45 w/sq cm or higher) (ASTM E-648)
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Installation Methods

Installation Method	Vertical Ashlar
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Product Specifications

Reclamation	100% recyclable in the ReStartÆ Program	
Product Size	24" x 24" Tile	
Stain Resistance	>8 (AATCC 175-08 Stain Resistance Pile Floor Coverings)	
Dynex SD Stain Warranty	Lifetime Limited Stain Resistance Dynex SD Stain	
Platform Sizes	24" x 24" Tile	
Pattern Scale	Large	
Pattern Type	Geometric	
Coordinating Group	Coordinate Group 6	
Primary Backing	Non-woven synthetic fiber	
Construction	StratatecÆ Patterned Loop	
GSA	Yes	
Gauge	5/64	50.4 rows/ 10 cm
Stitches Per Inch	11.6 stitches / inch	45.7 stitches/10 cm
Pile Height Average	.187 inch	4.7 mm
Fiber System	Dynex SDÆ Nylon(Permanent Stain Resistance)	
Dye Method	100% Solution Dyed	
Fluorine-Free Soil Protection	Eco-Ensure	
Pattern Match	Not required	
Colorfastness to Light	> 4 after 100 hours (AATCC 16E)	
Soil Protection	Application rate: 2% of face weight	
Electrostatic Propensity	1.9 kV (AATCC 134); Permanent Conductive Fiber	
Surface Flammability	Passes CPSC FF 1-70 (ASTM D-2859)	
Smoke Generation	Less than 450 (ASTM E-662)	



Environmental Attributes

Recycled Content	Yes
Antimicrobial Chemicals	No antimicrobials (EPA Registered pesticides) added to product (ASTM E2471-05)

Performance Testing

Flooring Radiant Panel	Class 1 (mean average CRF: 0.45 w/sq cm or higher) (ASTM E-648)
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Installation Methods

Installation Method	Vertical Ashlar
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VENUE SERIES
VENUE ABSTRACT (UVA)

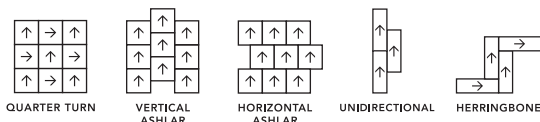
SPECIFICATIONS

Classification:	ASTM F1700 Class III Type B
Total Thickness:	0.120" (3.0 mm)
Wear Layer Thickness:	20 mil (0.5 mm)
Edge Treatment:	Square (SE)
Emboss:	Standard
	Quarry (QU) (Concrete, Criss Cross)
	Linear Wood (LW) (Fine Lines, Tread)

Warranty:	10-Year Limited Commercial Wear Warranty
Colors:	21
Adhesive:	CENTI 2001 Wet Set, CENTI 6000 SP, CENTI 2000 EP or other Tandus Centiva LVT preferred adhesives.

Installation Methods:

Product specific.

Please see tandus-centiva.com for more information.

SIZES

Concrete	18"x18" (45.72 cm x 45.72 cm)	Criss Cross	18"x18" (45.72 cm x 45.72 cm)	Fine Lines & Tread	18"x18" (45.72 cm x 45.72 cm)
	36"x36" (91.44 cm x 91.44 cm)		36"x36" (91.44 cm x 91.44 cm)		6"x36" (15.24 cm x 91.44 cm)
	6"x36" (15.24 cm x 91.44 cm)				

TESTING

Flexibility:	ASTM F137	Passes
Dimensional Stability:	ASTM F2199	Passes
Static Load:	ASTM F970	Passes
Residual Indentation:	ASTM F1914	Excellent
Flammability:	ASTM E648	CRF≥0.45 watts/cm² NFPA Class 1
Slip Resistance:	ASTM D2047	Passes >0.5 ADA Compliant
Smoke Density:	ASTM E662	Passes <450 D ^{MC}
Resistance to Light:	ASTM F1515	Excellent
Chemical Resistance:	ASTM F925	Excellent
Resistance to Heat:	ASTM F1514	Excellent

ENVIRONMENTAL DATA

Recycled Content:	30% Preconsumer
Materials:	No Heavy Metals; Non-Toluene Ink System
Indoor Air Quality:	Meets CDPH Standard Method v1.1-2010; FloorScore® Certification
Recyclability:	100% Recyclable through our ReStart® Program
LEED Scoreboard:	LEED 2009 MRc2 Construction Waste Management MRc4 Recycled Content MRc5 Regional Materials IEQ 4.1 Low-Emitting Adhesives IEQ 4.3 Low-Emitting Materials Flooring
Manufacturing:	Made in the USA ISO 9001 Quality Management System ISO 14001 Environmental Management System OHSAS 18001 Occupational Health and Safety Management System
Third-party Certification:	NSF/ANSI-332 Silver
Packaging:	Packaged in recycled, corrugated cardboard

QUICKSHIP PROGRAM

All Venue Series products

Select colors available

LEED v4

MRc2 Building Product Disclosure and Optimization – Environmental Product Declarations
MRc3 Building Product Disclosure and Optimization – Sourcing of Raw Materials
MRc5 Construction and Demolition Waste Management
IEQc2 Low-Emitting Materials



PRODUCT CERTIFIED FOR REDUCED ENVIRONMENTAL IMPACT. VIEW SPECIFIC ATTRIBUTES EVALUATED: UL.COM/EL NSF 332

- For samples, warranties and more information, visit tandus-centiva.com or call 800.248.2878.
- Specifications are subject to nominal manufacturing variances. Material supply and/or manufacturing processes may necessitate changes without notice.
- Chair glides are recommended for optimum textural performance. Absent the use of chair glides, more intensive maintenance will be required for areas in direct contact with furniture footing, and some degree of appearance change is to be expected.



TILE + PLANK

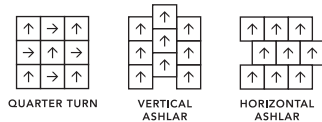
VENUE SERIES
VENUE STONE (UVS)

Tandus Centiva

A Tarkett Company

SPECIFICATIONS

Classification:	ASTM F1700 Class III Type B
Total Thickness:	0.120" (3.0 mm)
Wear Layer Thickness:	20 mil (0.5 mm)
Edge Treatment:	Square (SE)
Emboss:	Standard Quarry (QU) (all but Slate products, see below) Slate (SL) (SL61, SL64, SL65, SL72, SL78 only)
Warranty:	10-Year Limited Commercial Wear Warranty
Colors:	12
Adhesive:	CENTI 2001 Wet Set, CENTI 6000 SP, CENTI 2000 EP or other Tandus Centiva LVT preferred adhesives.

Installation Methods:

Product shown: UVS 7240

SIZES	12"x24" (30.48 cm x 60.96 cm) 18"x18" (45.72 cm x 45.72 cm)
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TESTING

Flexibility:	ASTM F137	Passes
Dimensional Stability:	ASTM F2199	Passes
Static Load:	ASTM F970	Passes
Residual Indentation:	ASTM F1914	Excellent
Flammability:	ASTM E648	CRF≥0.45 watts/cm² NFPA Class 1
Slip Resistance:	ASTM D2047	Passes >0.5 ADA Compliant
Smoke Density:	ASTM E662	Passes <450 D ^{MC}
Resistance to Light:	ASTM F1515	Excellent
Chemical Resistance:	ASTM F925	Excellent
Resistance to Heat:	ASTM F1514	Excellent

ENVIRONMENTAL DATA

Recycled Content:	30% Preconsumer
Materials:	No Heavy Metals; Non-Toluene Ink System
Indoor Air Quality:	Meets CDPH Standard Method v1.1-2010; FloorScore® Certification
Recyclability:	100% Recyclable through our ReStart® Program
LEED Scoreboard:	LEED 2009 MRc2 Construction Waste Management MRc4 Recycled Content MRc5 Regional Materials IEQ 4.1 Low-Emitting Adhesives IEQ 4.3 Low-Emitting Materials Flooring

Manufacturing:	Made in the USA ISO 9001 Quality Management System ISO 14001 Environmental Management System OHSAS 18001 Occupational Health and Safety Management System
Third-party Certification	NSF/ANSI-332 Silver

Packaging:	Packaged in recycled, corruPackaged in recycled
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QUICKSHIP PROGRAM

All Venue Series products

Select colors available

LEED v4
 MRc2 Building Product Disclosure and Optimization – Environmental Product Declarations
 MRc3 Building Product Disclosure and Optimization – Sourcing of Raw Materials
 MRc5 Construction and Demolition Waste Management
 IEQc2 Low-Emitting Materials



PRODUCT CERTIFIED
 FOR REDUCED ENVIRONMENTAL IMPACT.
 VIEW SPECIFIC ATTRIBUTES EVALUATED:
 UL.COM/EL
 NSF 332

- For samples, warranties and more information, visit tandus-centiva.com or call 800.248.2878.
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Tandus Centiva

A Tarkett Company

LVT

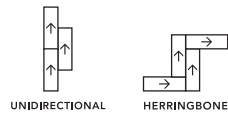
TILE + PLANK

VENUE SERIES VENUE WOOD (UVP)

SPECIFICATIONS

Classification:	ASTM F1700 Class III Type B
Total Thickness:	0.120" (3.0 mm)
Wear Layer Thickness:	20 mil (0.5 mm)
Edge Treatment:	Square (SE)
Emboss:	Standard
<i>Product specific. Please see tandus-centiva.com for more information.</i>	Weathered Grain (WG) Linear Wood (LW) Cross Grain (CG)
Warranty:	10-Year Limited Commercial Wear Warranty
Colors:	25
Adhesive:	CENTI 2001 Wet Set, CENTI 6000 SP, CENTI 2000 EP or other Tandus Centiva LVT preferred adhesives.

Installation Methods:



SIZES	4" x 36" (10.16 cm x 91.44 cm) 6" x 36" (15.24 cm x 91.44 cm) 6" x 48" (15.24 cm x 121.92 cm)
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TESTING

Flexibility:	ASTM F137	Passes
Dimensional Stability:	ASTM F2199	Passes
Static Load:	ASTM F970	Passes
Residual Indentation:	ASTM F1914	Excellent
Flammability:	ASTM E648	CRF≥0.45 watts/cm² NFPA Class 1
Slip Resistance:	ASTM D2047	Passes >0.5 ADA Compliant
Smoke Density:	ASTM E662	Passes <450 D ^{MC}
Resistance to Light:	ASTM F1515	Excellent
Chemical Resistance:	ASTM F925	Excellent
Resistance to Heat:	ASTM F1514	Excellent

ENVIRONMENTAL DATA

Recycled Content:	30% Preconsumer
Materials:	No Heavy Metals; Non-Toluene Ink System
Indoor Air Quality:	Meets CDPH Standard Method v1.1-2010; FloorScore® Certification
Recyclability:	100% Recyclable through our ReStart® Program
LEED Scoreboard:	LEED 2009 MRc2 Construction Waste Management MRc4 Recycled Content MRc5 Regional Materials IEQ 4.1 Low-Emitting Adhesives IEQ 4.3 Low-Emitting Materials Flooring
Manufacturing:	Made in the USA ISO 9001 Quality Management System ISO 14001 Environmental Management System OHSAS 18001 Occupational Health and Safety Management System
Third-party Certification:	NSF/ANSI-332 Silver
Packaging:	Packaged in recycled, corrugated cardboard

QUICKSHIP PROGRAM



All Venue Series products



Select colors available

LEED v4

MRc2 Building Product Disclosure and Optimization –
Environmental Product Declarations
MRc3 Building Product Disclosure and Optimization –
Sourcing of Raw Materials
MRc5 Construction and Demolition Waste Management
IEQc2 Low-Emitting Materials



PRODUCT CERTIFIED
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VIEW SPECIFIC ATTRI-
BUTES EVALUATED:
UL.COM/EL
NSF 332

- For samples, warranties and more information, visit tandus-centiva.com or call 800.248.2878.
- Specifications are subject to nominal manufacturing variances. Material supply and/or manufacturing processes may necessitate changes without notice.
- Chair glides are recommended for optimum textural performance. Absent the use of chair glides, more intensive maintenance will be required for areas in direct contact with furniture footing, and some degree of appearance change is to be expected.

PRICING MATRIX

FLOORING			
Product Description		UOM	Price
Carpet	Carpet Tile - Abrasive Action II, 24oz, 18"x18"	SY	\$55.50
Carpet	Carpet Tile - Abrasive Action II, 24oz, 24"x24"	SY	\$55.50
Carpet	Carpet Tile - Abrasive Action II, 24oz, 36"x36"	SY	\$55.50
Carpet	Carpet Tile - Aftermath I, 17oz, 18"x18"	SY	\$35.45
Carpet	Carpet Tile - Aftermath I, 17oz, 18"x36"	SY	\$35.45
Carpet	Carpet Tile - Aftermath I, 17oz, 24"x24"	SY	\$35.45
Carpet	Carpet Tile - Aftermath I, 17oz, 36"x36"	SY	\$35.45
Carpet	Carpet Tile - Applause III, 18oz, 18"x18"	SY	\$35.06
Carpet	Carpet Tile - Applause III, 18oz, 24"x24"	SY	\$35.06
Carpet	Carpet Tile - Applause III, 18oz, 36"x36"	SY	\$35.06
Carpet	Carpet Tile - City Walk, 12oz, 24"x24"	SY	\$30.75
Carpet	Carpet Tile - ColorMap 20oz, 18"x18"	SY	\$43.45
Carpet	Carpet Tile - ColorMap 20oz, 24"x24"	SY	\$43.45
Carpet	Carpet Tile - ColorMap 20oz, 36"x36"	SY	\$43.45
Carpet	Carpet Tile - Color Spectrum, 18oz, 18"x18"	SY	\$39.78
Carpet	Carpet Tile - Color Spectrum, 18oz, 18"x24"	SY	\$39.78
Carpet	Carpet Tile -Color Spectrum, 18oz, 24"x24"	SY	\$39.78
Carpet	Carpet Tile - Color Spectrum, 18oz, 36"x36"	SY	\$39.78
Carpet	Carpet Tile - Forward Motion, 14oz, 18"x18"	SY	\$34.75
Carpet	Carpet Tile -Forward Motion, 14oz, 18"x36"	SY	\$34.75
Carpet	Carpet Tile - Forward Motion, 14oz, 24"x24"	SY	\$34.75
Carpet	Carpet Tile -Forward Motion, 14oz, 36"x36"	SY	\$34.75
Carpet	Carpet Tile - Haphazard II, 14oz, 18"x18"	SY	\$35.15
Carpet	Carpet Tile - Haphazard II, 14oz, 18"x36"	SY	\$35.15

PRICING MATRIX

FLOORING			
Product Description		UOM	Price
Carpet	Carpet Tile - Haphazard II, 14oz, 24"x24"	SY	\$35.15
Carpet	Carpet Tile - Haphazard II, 14oz, 36"x36"	SY	\$35.15
Carpet	Carpet Tile - Infinity, 20oz, 18"x18"	SY	\$46.33
Carpet	Carpet Tile - Infinity, 20oz, 18"x36"	SY	\$46.33
Carpet	Carpet Tile - Infinity, 20oz, 24"x24"	SY	\$46.33
Carpet	Carpet Tile -Infinity, 20oz, 36"x36"	SY	\$46.33
Carpet	Carpet Tile -Street Life, 12oz, 24"x24"	SY	\$30.74
Carpet	Carpet Tile -Syllabus, 14oz, 24"x24"	SY	\$35.80
Carpet	Carpet Tile -Urban View, 10oz, 24"x24"	SY	\$29.50
Carpet	Carpet Roll Goods - Abrasive Action, 24oz, 6'	SY	\$60.75
Carpet	Carpet Roll Goods - Aftermath II, 17oz, 6'	SY	\$30.53
Carpet	Carpet Roll Goods - Applause III, 18oz, 6'	SY	\$30.76
Carpet	Carpet Roll Goods - Aragon, 20oz, 6'	SY	\$34.25
Carpet	Carpet Roll Goods - ColorMap, 20oz, 6'	SY	\$36.90
Carpet	Carpet Roll Goods - Custom Crayon, 18oz, 6'	SY	\$35.80
Carpet	Carpet Roll Goods - Forward Motion, 14oz, 6'	SY	\$34.30
Carpet	Carpet Roll Goods - Haphazard II, 14oz, 6'	SY	\$32.75
Carpet	Carpet Roll Goods - Infinity, 20oz, 6'	SY	\$38.95
Carpet	Carpet Roll Goods - Runaway II, 18oz, 6'	SY	\$37.88
Carpet	Carpet Roll Goods - Sentinel II, 18oz, 6'	SY	\$37.70
Carpet	Carpet Roll Goods - Syllabus, 14oz, 6'	SY	\$32.80
Carpet	Carpet Tile - Desso Axminster	SY	\$36.85
Carpet	Carpet Roll Goods - Desso Colorpoint Broadloom 12'	SY	\$38.42
Carpet	Carpet Roll Goods - Desso ChromoJet Printed, 12'	SY	\$38.42

PRICING MATRIX

FLOORING			
Product Description		UOM	Price
Carpet	Geo Tile Matting 18"x18" dry back modular tile	SY	\$110.29
Carpet	Geo Tile - Abrasive Action 6' dry back roll goods	SY	\$65
Carpet	Geo Tile - Triad Mat (water hog) with trim 3'x4'	SY	\$225
Carpet	Geo Tile - Triad Mat (water hog) with trim 4'x6'	SY	\$445
Flooring	Life Tiles LVT, 6"x36", 3 mm, 36 SF per Case	Square Foot	\$406.50
Flooring	Eco-Grip Safety Flooring with Sundries, Pewter, Charcoal or Slate	Square Foot	\$18
Flooring	Floorazzo Gem 24"x24" Tile	Square Foot	\$24.50
Flooring	Floorazzo Marble 24"x24" Tile	Square Foot	\$24.50
Flooring	PurLine Organic Tile, 40 SF per Case	Square Foot	\$26.75
Flooring	PurLine Organic Roll Goods	Square Foot	\$23.75
Flooring	PurLine Organic Plank, 40 SF per Case	Square Foot	\$21.50
Flooring	Soliris Poolside Outdoor Nonslip Vinyl Roll Goods	Square Foot	\$19.50
Flooring	Terratrax Roll Goods	Square Foot	\$26.50
Flooring	Playfall Tile 4' Fall Height, 1.75", 2'x2'	Square Foot	\$14.25
Flooring	Playfall Tile 6' Fall Height, 2.5", 2'x2'	Square Foot	\$15.75
Flooring	Playfall Tile 8' Fall Height, 1.75", 2'x2'	Square Foot	\$16.25
Flooring	Playfall Tile 10' Fall Height, 2.5", 2'x2'	Square Foot	\$16.50
Flooring	Playfall Tile 12' Fall Height, 2.5", 2'x2'	Square Foot	\$17.00
Flooring	Playfall Tile 14' Fall Height, 2.5", 2'x2'	Square Foot	\$17.50
Flooring	Linoleum Tile 24"x24"	SF	\$7.50
Flooring	Linoleum Tile 12"x24"	SF	\$7.45
Flooring	Linoleum Tile 12"x12"	SF	\$7.25
Flooring	Linoleum Sheet – 2.5mm	SY	\$55.65
Flooring	Static Dissipative Tile	SF	\$18.75
Flooring	Marmolette Tile	SF	\$8.50
Flooring	Marmoleum Sheet	SY	\$58.45

PRICING MATRIX

FLOORING			
Product Description		UOM	Price
Flooring	LinoArt Tile	SF	\$6.25
Flooring	LinoArt Sheet	SY	\$52.25
Flooring	Standard Excellon VCT	SF	\$2.25
Flooring	Quarry Tile, Reb Blaze Q40 6" x 6"	SF	\$7.25
Flooring	Quarry Tile Q40 Cove Base 6" x 6"	SF	\$8.15
Flooring	Quarry Tile, Blaze Flash Q41 6" x 6"	SF	\$7.25
Flooring	Quarry Tile, Q41 Cove Base 6" x 6"	SF	\$8.15
Flooring	Quarry Tile, Arid Gray Q42 6" x 6"	SF	\$7.28
Flooring	Quarry Tile, Q42 Cove Base 6" x 6"	SF	\$8.29
Flooring	Quarry Tile, Arid Flash Q43 6" x 6"	SF	\$8.55
Flooring	Quarry Tile, Q43 Cove Base 6" x 6"	SF	\$8.78
Flooring	Linoleum/Marmoleum, 2.0mm- MCT (VCT Alternative)	SF	\$6.85
Flooring	Linoleum/Marmoleum, 2.0mm- MCS (Sheet)	Per Roll	\$5,524
Flooring	Linoleum/Marmoleum, 2.5mm Sheet- Marmoleum Real	Per Roll	\$6,245
Flooring	Linoleum/Marmoleum, 2.5mm Sheet- Marmoleum Fresco	Per Roll	\$6,320
Flooring	Linoleum/Marmoleum, 2.5mm Sheet- Marmoleum Concrete	Per Roll	\$6,261
Flooring	Linoleum/Marmoleum, 2.5mm Sheet- Marmoleum Vivace	Per Roll	\$6,181
Flooring	Linoleum/Marmoleum, 2.5mm Sheet- Marmoleum Piano	Per Roll	\$6,296
Flooring	Linoleum/Marmoleum, 2.5mm Sheet- Marmoleum Striato	Per Roll	\$6,328
Flooring	Linoleum/Marmoleum, 2.5mm Sheet- Marmoleum Textura	Per Roll	\$6,337
Flooring	Linoleum/Marmoleum, 2.5mm Tile- Marmoleum Modular Tile	SY	\$63.48
Flooring	Linoleum/Marmoleum, 2.5mm Tile- Marmoleum Modular Striato	SY	\$63.27
Flooring	Linoleum/Marmoleum, Marmoleum Adhesive- S885 (goes to 85% RH)	5 Gal / 450-500 SF	\$425
Flooring	Luxury Vinyl Tile - Contour Series, 9"x36"	SF	\$6
Flooring	Luxury Vinyl Tile -Contour Series, 18"x18"	SF	\$6
Flooring	Luxury Vinyl Tile -Contour Series, 18"x36"	SF	\$6
Flooring	Luxury Vinyl Tile -Contour Series, 24"x24"	SF	\$6
Flooring	Luxury Vinyl Tile -Contour Series, 36"x36"	SF	\$6

PRICING MATRIX

FLOORING			
Product Description		UOM	Price
Flooring	Luxury Vinyl Tile -Event Series, 4"x36"	SF	\$3.75
Flooring	Luxury Vinyl Tile -Event Series, 6"x36"	SF	\$3.75
Flooring	Luxury Vinyl Tile -Venue Series, 4"x36"	SF	\$3.55
Flooring	Luxury Vinyl Tile -Venue Series, 6"x36"	SF	\$3.55
Flooring	Luxury Vinyl Tile -Venue Series, 6"x48"	SF	\$3.55
Flooring	Luxury Vinyl Tile -Venue Series, 12"x24"	SF	\$3.55
Flooring	Luxury Vinyl Tile -Venue Series, 18"x18"	SF	\$3.55
Flooring	Luxury Vinyl Tile -Venue Series, 36"x36"	SF	\$3.55
Flooring	Rubber Surfacing, Special Ed- 20" 2.7mm Hammered Surface Tile in 6 colors	SF	\$14.50
Flooring	Rubber Surfacing, Special Ed- 2mm smooth surface sheet	SF	\$13.75
Flooring	Rubber Surfacing, Standard Line- Noraplan Eco 2mm	SF	\$9.25
Flooring	Rubber Surfacing, Standard Line- Noraplan Envirocare 3mm, limited colors	SF	\$13.25
Flooring	Rubber Surfacing, Standard Line- Norament Grano	SF	\$16.25
Flooring	Rubber Surfacing, Specialty- Norament stair treads, solid color, landed	Each	\$65.20
Flooring	Rubber Surfacing, Specialty- 992 weight room flooring, solid color	SF	\$22.50
Flooring	Rubber Surfacing, Specialty- 992 weight room flooring, Grano	SF	\$23.75
Flooring Accessories	Life Tiles Adhesive	Each	\$426.21
Flooring Accessories	Multi-Poxy Adhesive for Roll Goods	4-Gallon	\$510.11
Flooring Accessories	Legacy Entry Grille Mat Roll Goods	Square Foot	\$65.24
Flooring Accessories	Legacy Entry Grille Mat Outdoor Adhesive	Gallon	\$240.81
Flooring Accessories	Perma Bond Adhesive	4-Gallon	\$629.12
Flooring Accessories	Outdoor Adhesive	Gallon	\$592.66
Flooring Accessories	Playfall Tile Adhesive	Gallon	\$485.72
Flooring Accessories	Safety Zone Ramps – Non-Slip	Each	Inquire
Flooring Accessories	Wall Base	LF	\$4.25
Flooring Accessories	S-761 Seam Adhesive (Tube)	Each	\$48.25
Flooring Accessories	S-799 Linoleum Adhesive (Up to 95 RH)	Per Gallon	\$355.20

PRICING MATRIX

FLOORING			
Product Description		UOM	Price
Flooring Accessories	Rubber Surfacing, Adhesive- 485 acrylic adhesive, 4 gallon	Per Pail	\$258.35
Flooring Accessories	Rubber Surfacing, Adhesive- Nora Dry-Fix tape	SF	\$415.20
Flooring Accessories	Rubber Surfacing, Adhesive- nTx 100% RH peel-and-stick system	SF	\$2.25
Flooring Accessories	Rubber Surfacing, Adhesive- Nora maintenance pads 1	Per Gallon	\$520.12
Flooring Accessories	Rubber Surfacing, Adhesive- Nora maintenance pads 2	Per Gallon	\$542.76
Flooring Accessories	Marmoleum Adhesive- S1195 (goes to 95% RH)	5 Gal / 450-500 SF	\$487.20
Flooring Accessories	Entry Mat 8850, 4-Sided with Reducer	Square Foot	\$134.27
Sports Flooring	DropZone Speckle Interlocking Tile, 23"x23", 8mm	Square Foot	\$48.25
Sports Flooring	DropZone Speckle Roll Goods, 8mm	Square Foot	\$46.25
Sports Flooring	DropZone Comfort Roll Goods, 14.5mm	Square Foot	\$65.70
Sports Flooring	DropTile 1" Tile with Locking Pins, 2'x2' = 4 SF per Tile	Square Foot	\$42.75
Sports Flooring	OmniSports and Accessories ,Compact 2.0	SY	\$42.00
Sports Flooring	OmniSports and Accessories ,Omniports 3.5	SY	\$42.50
Sports Flooring	OmniSports and Accessories ,Omniports 5.0	SY	\$53.25
Sports Flooring	OmniSports and Accessories ,Omniports 6.5	SY	\$62.00
Sports Flooring	OmniSports and Accessories ,Omniports 8.3	SY	\$66.00
Sports Flooring	OmniSports and Accessories ,Welding Rod	SY	\$77.00
Sports Flooring	OmniSports and Accessories ,Tarkolay (moisture barrier)(not w/2.0)*	SY	\$21.00
Sports Flooring	OmniSports and Accessories ,Lumaflex (Plywood)	SY	\$95.75
Sports Flooring	OmniSports and Accessories ,Lumaflex (1/2" foam)	SY	\$16.90
Sports Flooring	OmniSports and Accessories ,HPL (4mm underlayment w/scrim) (requires OS Compact 2mm)	SY	\$48.00
Sports Flooring	OmniSports and Accessories ,Multi-Set Premium Acrylic adhesive**	SY	\$220.00
Sports Flooring	OmniSports and Accessories ,Multi-Poxy (Part A & Part B)***	SY	\$580.00
Sports Flooring	OmniSports and Accessories ,HS Sport Spray	SY	\$335.00
Sports Flooring	OmniSports and Accessories ,Tarkotape (double face tape)****	SY	\$1,584
Sports Flooring	OmniSports and Accessories ,Game Line Paint	SY	\$240.00
Sports Flooring	OmniSports and Accessories ,Polyurethane Primer	SY	\$170.00
Sports Flooring	Pre-Fabricated Dance Floor	SF	\$18.00