

SPECIFICATIONS

09500 ACOUSTICAL CEILINGS

A. Acoustical Panel Standard. Provide manufacturer's standard panels of configuration indicated that comply with ASTM E1264 classifications as designated by types, patterns, acoustical ratings, and light reflectance, unless otherwise indicated.

1. Mounting Method for Measuring Noise Reduction Coefficient: Type E-4004 plenum mounting in which face of test specimen is 15-3/4 inches away from test surface per ASTM E195.

2. Test Method for Ceiling Attenuation Class (CAC). Where acoustical panel ceilings are specified to have a CAC, provide units identical to those tested per ASTM E144 by a qualified testing agency.

B. Acoustical Panel Colors and Patterns. Match appearance characteristics indicated for each product type.

C. Provide manufacturer's written standard warranty for 10 years from date of installation against sagging, warping or shrinking of acoustical ceiling panels under conditions up to 90 degrees F temperature and 50 percent relative humidity.

D. Panel Characteristics. Comply with requirements indicated in the Acoustical Panel Ceiling Schedule at the end of Part 3, including those referencing ASTM E1264 classifications.

E. Metal Suspension System Standard. Provide manufacturer's standard direct-hung metal suspension systems of types, structural classifications, and finishes indicated that comply with applicable ASTM C635 requirements.

F. Metal Suspension System Characteristics. Comply with requirements indicated in the Acoustical Panel Ceiling Schedule.

G. Finishes and Colors, General. Comply with NAAFP's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes. Provide manufacturer's standard factory-applied finish for type of system indicated.

H. Attachment Devices. Size for five times design load indicated in ASTM C635, Table I, Direct Hung, unless otherwise indicated.

I. Wire Hangers, Braces, and Ties. Provide wires complying with the following requirements:

1. Zinc-Coated Carbon-Steel Wire: ASTM A641, Class 1 zinc coating, soft temper.
2. Size: Select wire diameter so its stress at three times hanger design load (ASTM C635, Table I, Direct Hung) will be less than yield stress of wire, but provide not less than 0.06-inch-diameter wire.

J. Hanger Rods and Flat Hangers: Mild steel, zinc coated or protected with rust-inhibitive paint.

K. Angle Hangers: Angles with legs not less than 7/8 inch wide; formed with 0.04-inch-thick, galvanized steel sheet complying with ASTM A653, G90 coating designation with bolted connections and 3/16-inch-diameter bolts.

L. Grid - Non-Rated Assemblies

1. Armstrong Prelude
2. 1/2" exposed grid
3. 1-1/2" main runners and cross tees.
4. Used at non-rated assemblies only.
5. Grid to be white.

M. Hanger Wires

1. Galvanized, soft annealed steel wire, 0 gauge minimum.

N. Retention Clips

1. Armstrong No. 414.

O. Panel Schedule, AT-1

1. Armstrong World Industries, Inc. "Fire Rated" 1833
2. Color: white.
3. Light Reflectance Coefficient: 0.85.
4. Noise Reduction Coefficient: 0.95.
5. Ceiling Attenuation Class: 35.
6. Edge Detail: Angled Regular
7. Thickness: 5/8 inch
8. Size: 24 by 24 inches.

09600 RESILIENT FLOORING AND ACCESSORIES

A. Source Limitations. Obtain each type, color, and pattern of tile and accessories specified from one source with resources to provide products of consistent quality in appearance and physical properties without delaying the work. Provide primers, adhesives, sealants, leveling compounds and similar materials that are compatible to and in conformance with the manufacturer's recommendations regarding tile, accessories and substrates.

B. Fire-Test-Response Characteristics. Provide products with the following fire-test-response characteristics as determined by testing identical products per the ASTM test method indicated below by Underwriters Laboratories, Inc. (UL) or another testing and inspecting agency acceptable to authorities having jurisdiction:

1. Critical Radiant Flux: 0.45 W/m² or greater when tested per ASTM E648.
2. Smoke Density: Maximum specific optical density of 450 or less when tested per ASTM E662.

C. Vinyl Composition Floor Tile. Products complying with ASTM F1066 and with requirements specified as follows:

1. Class: Class 2, through-pattern tile.
2. Thickness: 1/8 inch.
3. Size: 12 by 12 inches.
4. Wearing Surface: Smooth.
5. Product: Armstrong 158TT EARTH GREEN.
6. Color: 158TT EARTH GREEN or match existing.
7. Pattern: As indicated by Architect in Construction Documents.

D. Rubber Wall Base. Products complying with FS 95-W-426, Type II and with requirements specified as follows:

1. Style: Cove with top-set toe.
2. Minimum thickness: 1/8 inch.
3. Height: 4 inches.
4. Length: Cuts in lengths standard with manufacturer but not less than 36 feet.
5. Corners and End Stops: Preformed outside corners. Kerfing straight base for use as an outside corner is unacceptable.
6. Surface: Smooth.
7. Product, Color and Pattern: JOANSONITE FT1 HARBOUR.

E. Rubber Accessory Molding. Provide the following accessories, selected from manufacturer's standard types, profile, sizes, thickness, style, color and pattern:

1. Carpet to Resilient Tile Transition: (min 2" width)
1. Reducer strip from resilient tile to concrete flooring (min 2" width)

F. Concrete Slab Primer. Nonstaining type as recommended by flooring manufacturer.

G. Travelable Leveling and Patching Compounds: Latex-modified, Portland-cement-based formulation provided or approved by flooring manufacturer for applications indicated.

09680 CARPET

A. Carpet shall be from a single run or lot to assure color uniformity.

B. Test Standards

1. Smoke Developed: NFPA 258.
2. Flame Spread: ASTM E-84.
3. Static Rating: AATCC 134-191.
4. Critical Flux: ASTM E-648.

C. Provide carpeting with at least the following minimum attributes:

1. Description: Level loop pile with Lint-free antimicrobial
2. Gauge: 110 mm
3. Stain Rate: 10 min per inch
4. Pile Height: .09-.181 inch
5. Fiber: Advanced generation continuous filament nylon with static control 3 or 4 ply
6. Dye Method: Tann dyed.
7. Tare Weight: 22 oz/m²
8. Finishing Back: Moisture barrier with or without cushion in 2" roll goods or carpet-equates
9. Pile Density: Minimum 60000 ounces
10. Fire Rating: Class 1
11. Product, Color & Pattern - To match existing installed carpet tiles.

D. Carpet Accessory Materials

1. Carpet Edge Guard: Manufacturer's standard type of molded vinyl or metal carpet edge guard stripping.
2. Adhesive for Carpet: Provide adhesive as recommended by the carpet manufacturer. Provide adhesive which complies with flammability rating required for the carpet installation.
3. Miscellaneous Materials: Provide the types of seaming tapes, thread, nails, adhesive and other accessory items recommended by the carpet manufacturer and installer for the conditions of installation and use, without failure during the life of the carpet.

E. Product: MATCH EXISTING

09900 PAINT

A. Provide block fillers, primers, finish coat materials, and related materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by the manufacturer based on testing and field experience.

B. Provide the manufacturer's best-quality trade sale paint material of the various coating types specified. Paint material containers not displaying manufacturer's product identification will not be acceptable.

C. Match colors indicated by reference to the manufacturer's standard color designations.

D. Examine substrates and conditions under which painting will be performed for compliance with paint application requirements. Surfaces receiving paint shall be thoroughly dry before paint is applied.

E. Clean and prepare surfaces to be painted according to the manufacturer's instructions for each particular substrate condition and as specified.

F. Interior: Provide the following paint systems for the various substrates, as indicated:

1. Concrete and Masonry: Semi-gloss Acrylic Latex Finish. Two finish coats over masonry block filler with total dry film thickness not less than 85 mils.
2. Gypsum Board: Semi-gloss Acrylic Latex Finish. Two finish coats over primer with total dry film thickness not less than 60 mils.
3. Galvanized (zinc coated) Ferrous Metal: Semi-Gloss Silicone Alkyd Enamel Finish. Two finish coats over galvanized metal primer with total dry film thickness not less than 120 mils.
4. Ferrous Metal: Semi-Gloss Silicone Alkyd Enamel Finish. Two finish coats over rust-inhibitive primer with total dry film thickness not less than 120 mils.
5. Wood: Semi-Gloss Alkyd Enamel Finish. Two coats over primer with total dry film thickness not less than 50 mils.

G. Color: Match existing general paint and accent paint.

07240 EXTERIOR INSULATION FINISH SYSTEM (EIFS)

CLAS9C FB WALL SYSTEM

A. Wind Load

1. Maximum deflection not to exceed L/740 of span under positive or negative design loads.
2. Design for wind load in conformance with local code requirements.

B. Substrate Systems

1. Acceptable substrates are FemaBase® Cement Board and other cement-boards conforming with ASTM C1325 (Type A-exterior), poured concrete/unit masonry, Fiberock® Aqua-Tough™ Sheathing, sXp™ sheathing (ASTM C1177), GlasRoc® sheathing (ASTM C1177), Securock™ glass-mat sheathing (ASTM C1177), DensGlass® exterior sheathing (ASTM C1177), gypsum sheathing (ASTM C793/C936), Exposure 1 or exterior plywood (Grade CD or better), or Exposure 1 OSB.
2. Painted and otherwise coated surfaces of brick, unit masonry, stucco and concrete shall be inspected and prepared as approved by BASF Wall Systems before application. Other substrates shall be approved by the system's manufacturer in writing prior to the application. The applicator shall verify that the proposed substrate is acceptable prior to the Serenflex Classic FB Wall System installation.
3. The substrate systems shall be engineered with regard to structural performance by others.

C. Moisture Control

1. Prevent the accumulation of water behind the EIF system, either by condensation or leakage through the wall construction, in the design and detailing of the wall assembly.
 - a. Provide flashing to direct water to the exterior where it is likely to penetrate components in the wall assembly, including above window and door heads, beneath window and door sills, at roof/wall intersections, decks, abutments of lower walls with higher walls, above walling features, and at the base of the wall and anywhere else required by local code.
 - b. Air Leakage Prevention: Provide continuity of air barrier system at foundation, roof, windows, doors and other penetrations through the system with connecting and compatible air barrier components to minimize condensation and leakage caused by air movement.
 - c. Vapor Diffusion and Condensation: Perform a dew point analysis of the wall assembly to determine the potential for accumulation of moisture in the wall assembly as a result of water vapor diffusion and condensation. Adjust insulation thickness and/or other wall assembly components accordingly to minimize the risk of condensation. Avoid the use of vapor retarders on the interior side of the wall in warm climates.

D. Impact Resistance

1. Provide Ultra-High Impact resistance to a minimum height of 6' - 0" (1.8m) above finished grade at all areas accessible to pedestrian traffic and other areas exposed to abnormal stress or potential impact. Indicate the areas with impact resistance requirements other than "Standard" on contract drawings.

E. Color Selection

1. The use of dark colors must be considered in relation to wall surface temperature as a function of local climate conditions. Select Finish Coat color with a light reflectance value (LRV) of 20% or higher. The use of dark colors (LRV less than 20%) is not recommended with EIF Systems that incorporate expanded polystyrene (EPS). EPS has a sustained service temperature limitation of approximately 175°C (347°F).

F. System Joints

1. Minimum 3/4" (19mm) expansion joints in the system are required at building expansion joints, at prefabricated panel joints, floor lines of wood frame construction where substrates change and where structural movement is anticipated. It is the sole responsibility of the project design team, including the architect, engineer, etc., to ultimately determine specific expansion joint placement, width and design. Detail specific locations in construction drawings.
2. Minimum 1/2" (13mm) wide sealant joints are required at all penetrations through the Serenflex Classic FB Design (windows, doors, etc.)
3. Specially compatible closed cell backer rod and acceptable sealant that has been evaluated in accordance with ASTM C 1363, "Test Method for Determining Tensile Adhesion Properties of Sealants When Used in Exterior Insulation and Finish System (EIFS) Joints," and that meets minimum 50% elongation after conditioning.
4. The system must be properly terminated (back-wrapped a min. of 2", properly sealed, flashed) at all penetrations, lighting fixtures, electrical outlets, hose bibs, dryer vents, etc.

G. Trim/Projecting Architectural Features

1. Minimum slope for all projections shall be 1:2 (2%) with a maximum length of 305 cm (12") height, 15 cm in 305cm (6" in 12"), unless other manufacturer-approved detailing is shown on the construction documents. Increase slope for northern climates to prevent accumulation of ice/snow on the surface.
2. Serenflex Wall Systems were designed and tested to be applied to vertical surfaces. As the slope of the wall system application decreases, the chance for premature deterioration of any wall system increases.
3. Low sloping EIFS conditions are subject to more extreme heat. Low sloped areas are known to produce an increase in wall surface temperature. This design can lead to accelerated weathering of the low sloped surface.

H. Coordination with other trades

1. Evaluate adjacent materials such as windows, doors, etc. for conformance to manufacturer's details. Adjacent trades shall provide scaled shop drawings for review.
2. Air Seals at any joints/gaps between adjoining components (penetrations, etc.) are of primary importance to maintain continuity of an air barrier system and must be considered by the design professional in the overall wall assembly design. Install air seals between the primary Air/Water Resistive barrier and other wall components (penetrations, etc.) in order to maintain continuity of an air barrier system.
3. Provide site grading such that FB Design terminates a minimum of 6" (153mm) above finished grade or as required by code.
4. Install copings and sealant immediately after installation of the Serenflex Classic FB Design.

I. MANUFACTURERS

Base-of-Design Serenflex® Classic FB Design (Class FB System) manufactured by BASF Wall Systems.

J. MATERIALS

1. Sheathing primer: black tinted, 100% acrylic-based sheathing primer for wood based sheathing substrates manufactured by BASF Wall Systems®.
2. Adhesive/Base Coat/NC-II Base: 100% acrylic polymer-based, non-cementitious base coat.
3. Portland cement: Conform to ASTM C150, Type I, II, or III, grey or white, fresh and free of lumps.
4. Water: Clean and potable without foreign matter.
5. Insulation EPS insulation board: Expanded polystyrene: ASTM C578, Type I Flame spread less than 25, smoke developed less than 450 per ASTM E84, UL T231 minimum density 5.22 kg/m³ (0.35 lb/ft³), K=0.029mm (0.24inch) 15 mm (3/4") thickness minimum as indicated on drawings or meeting the following:
 - a. Air-dried (aged) six weeks, or equivalent, prior to installation.
 - b. Edges: Square within 0.8 mm per meter (1/32" per foot).
 - c. Thickness: Tolerance of plus or minus 1.6 mm (1/16").
 - d. Size: 0.6 m x 1.2 m (2' x 4').
 - e. Length and width: Tolerance of plus or minus 1.6 mm (1/16").

- OR -

6. OR polystyrene insulation board: Quik-R by Dow or Stucco-Shield II by Atlas Roofing Corporation. Nominal density 32 kg/m³ (2 lbs/ft³), 25, 38, or 50 mm (1", 1 1/2", or 2") thickness as indicated on Drawings meeting the following:
 - a. Size: 122 m x 2.44 m, 122 m x 2.14 m (4' x 8', 4' x 7'), or other size as provided by insulation board manufacturer.
 - b. Edges: square within 4 mm
 - c. Thickness: tolerance of less than 1" thick.
 - d. Length tolerance of plus or minus 1/4"
 - e. Width tolerance of plus or minus 1/6"
 - f.

K. Reinforcing Mesh: Balanced, open weave glass fiber reinforcing mesh twisted multi-end strands treated.

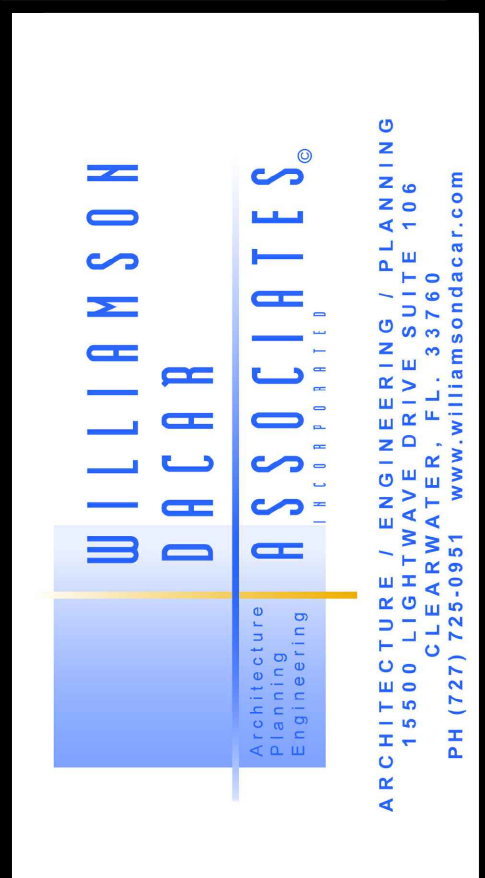
L. ASAP: 100% acrylic-based coating.

M. COLOR COAT: 100% acrylic-based coating.

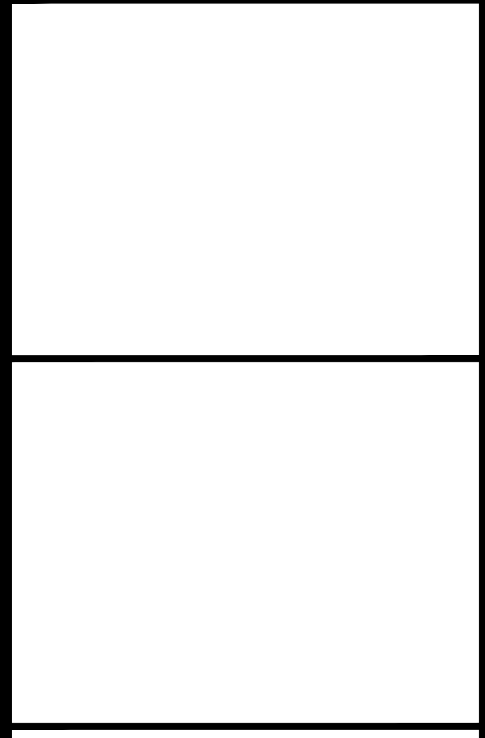
N. INTED PRIMER: 100% acrylic-based primer color to closely match the building stucco finish.

O. Finish Coat:

1. 100% acrylic resin finish air cured, compatible with Base Coat Finish color. Factory-mixed color as selected by Architect. Finish texture: FINE.



Architect: AA 0002541
Engineering: EB 0006884



2545 SOUTH STATE ROAD 7
WELLINGTON, FLORIDA 33444

No.	Date	Revisions
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Phase: CD
Checked: TW
Drawn: JA
Drawing Title

SPECIFICATION SHEET

WDA Proj. No.: 1526-01
Owner Proj. No.:
Scale: AS NOTED
Sheet No.

T.5

No. of Sheets: - -

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