SECTION 10 2126
WETWALL WATERPROOF WALL PANEL SYSTEM

This Section specifies “Wetwall Waterproof Wall Panel System” produced by Wilsonart. Wetwall is an innovative, lightweight, waterproof wall panel system for wet applications, such as tub/shower enclosure walls, wainscoting, wall cladding, backsplashes, and tub skirts. The system does not contain grout lines that require sealing, is easy to clean, and is available in a number of designs.

This patented wall system consists of two high-performance design layers bonded to a solid waterproof core. There is a choice of panel edges - flat, tongue/groove, and bullnose. For tub/shower configurations, combination edge panels (tongue/groove + bullnose) for surrounds are utilized. Other panel edge combinations are available for related applications.

There is a wide selection of panel sizes ranging from 8 inches by 60 inches up to 60 inches by 96 inches. Panel width is 10mm or approximately 0.41 inches.

All panel designs incorporate AEON™ Technology for scratch-and-scuff resistance and built-in antimicrobial protection, which inhibits the growth of stain and odor-causing bacteria, mold, and mildew.

Acceptable installation substrates are regular gypsum board, moisture-resistant gypsum board (“greenboard”), cement backer board, plaster, and existing hard tile.

LEED v5 BD+C and ID+C points are available. Wetwall has attained GREENGUARD Certification from UL Environment for low chemical emissions into indoor air during product usage.

Wetwall offers a limited lifetime warranty when using certified Platinum Installers and a 10-year residential and 3-year commercial limited lifetime warranty when using non-certified installers. Visit www.wilsonart.com/wetwall to see the limitless possibilities.

Section Editing: Informational notes will appear as “Editing Note” text boxes throughout this Section. Bracketed bold text will require a selection to be made.

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Wetwall Waterproof Wall Panel System.

B. Panel adhesive and color coordinated sealants.

1.02 RELATED REQUIREMENTS

EDITING NOTE: Section listings below are common references and based on the broadly accepted CSI MasterFormat® for Section numbers and titles. Revise to suit requirements for particular project.

A. Section 01 3000 - Submittals.

B. Section 01 8113 - Sustainable Design Requirements

C. Section 06 1000 - Rough Carpentry.

D. Section 09 2900 - Gypsum Board.

E. Section 10 2819 - Tub and Shower Doors.

1.03 REFERENCES

EDITING NOTE: Revise Reference Standards to suit Project requirements.

A. Reference Standards:

1. ASTM C412: Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers - Rubber.
2. ASTM C661: Standard Test Method for Indentation Hardness of Elastomeric-Type Sealants by Means of a Durometer.
3. ASTM C920: Standard Specification for Elastomeric Joint Sealants.
4. ISO: International Organization for Standardization.
5. ISO 4586: High-Pressure Decorative Laminate (HPDL) – Sheets Based on Thermosetting Resins.
6. ISO 9001: Quality Management Systems - Requirements.
7. LEED: Leadership in Energy and Environmental Design.
8. UL 2818: GREENGUARD Certification Program for Chemical Emissions for Building Materials, Finishes and Furnishings.

1.04 SUBMITTALS

A. General: Submit under provisions of Section 01 3000 - Submittals.

B. Product Data: For each specified product. Include manufacturer’s technical data sheets and published instruction instructions.

1. Submit Safety Data Sheets (SDS) for adhesives and sealants.

C. Shop Drawings: Fully dimensioned shop drawings indicating wall panel and mounting system layouts, joinery and reveals, terminating conditions, substrate construction, cutouts, and holes. Include elevations, sections, and large-scale details; show attachment locations, fastener spacings, blocking, and related components.

D. Samples: Selection and verification samples for each wall panel color, pattern, and finish required.

1. Submit minimum 5x8 inch sample of each wall panel required. **[Include two samples joined together representing typical exposed panel joint condition.]**

E. Quality Assurance Submittals: Submit the following:

1. Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties, if required by authorities having jurisdiction.
2. LEED Submittals: Applicable LEED documentation for potential credits specified in this Section. Include the following certifications:

a. UL 2818 GREENGUARD Gold Certified.

3. Warranty: Specimen copy of specified warranty.

F. Maintenance Data: Submit manufacturer's published maintenance manual with closeout submittals.

1.05 QUALITY ASSURANCE

A. Non-certified Installer Qualifications: Documented experience in installing wall panels similar in scope and complexity to this Project.

B. Certified Platinum Installer Qualification: Minimum of five years documented installation experience for projects similar in scope and complexity to this Project, and currently certified by the manufacturer as an acceptable installer. **[Installer shall have Platinum certification].**

EDITING NOTE: Following two LEED paragraphs offer potential credits according to LEED v5 for Building Design and Construction (BD+C) and Interior Design and Construction (ID+C). Coordinate with designated LEED AP for credits applicable to Project.

C. LEED v5 ID+C rating system potential credits; coordinate with Section 01 8113 - Sustainable Design Requirements:

1. MRc3 Low-Emitting Materials.
2. MRc4 Building Product Selection and Procurement.
3. EQc1: Enhanced Air Quality: Option 2 Enhanced Indoor Air Quality Design.
4. EQc5: Air Quality Testing and Monitoring: Option 1 Path 2 Volatile Organic Components.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Storage and Protection: Store materials protected from exposure to harmful weather conditions, at temperature and humidity conditions recommended by manufacturer. Store panels flat on pallets or similar rack-type storage to preclude damage.

B. Ensure wall panels acclimate to installation area final occupancy temperature and humidity a minimum of 48 hours prior to time of installation.

C. Handling: Use extra care for front faces of panels. Use only non-abrasive cloths to avoid scratching finished surfaces.

1.07 PROJECT CONDITIONS

A. Environmental Requirements: Prior to installation, building must be enclosed with building interior spaces to receive the work climate-controlled, with a typical ambient temperature between 55 deg F and 80 deg F, and 40 percent to 50 percent relative humidity.

B. Field Measurements: Verify actual measurements and openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.

1.08 WARRANTY

EDITING NOTE: Select one of the following warranty options. Contact Wilsonart for additional information.

A. Manufacturer's Non-certified Installer 10-Year Residential Limited Warranty or 3-Year Commercial Limited Warranty: Provide manufacturer's standard Limited Warranty against material defects in the wall panel system.

B. Manufacturer's Certified Platinum Installer Limited Lifetime Warranty: Provide manufacturer's standard Limited Lifetime Warranty against material defects in wall panel system.

PART 2 - PRODUCTS

EDITING NOTE: Full Contact Information: Wetwall, A Wilsonart Company, 3301 Center Street, Temple, TX 76503-6110. Toll-Free 866.938.9255, Fax 254.207.2384.
Website: www.wilsonart.com.

2.01 MANUFACTURER

A. Basis of Design Manufacturer: Wetwall, A Wilsonart Company.

2.02 WALL PANEL COMPONENT PROPERTIES

EDITING NOTE: Edit this Article to suit choices made for wall panel products.

A. High Pressure Laminate Overlays on Panel Core Material: Decorative surface papers impregnated with melamine resins and pressed over an engineered composite core. Sheets then bonded together under pressures greater than 1,000 lbs. per sq. in. and high temperatures approaching 300 deg F. Finished sheets trimmed; backs sanded to facilitate bonding to substrate, unless selected products are unsanded. Wall panels must have balanced laminate surfaces (both sides of panel).

B. Panel Core Material: Engineered composite panel product composed of cellulosic materials, glass fibers, polypropylene and a bonding agent, resulting in a durable and dimensionally stable substrate suitable for decorative laminate overlays.

C. Enhanced Laminate Performance: all panel designs incorporate AEON Enhanced Scratch & Scuff-Resistant Performance Technology and antimicrobial protection.

2.03 WETWALL PANELS

A. Product: "Wetwall Waterproof Wall Panel System."

B. Panel Dimensions and Weight:

EDITING NOTE: Panels come in the following dimensions:
Width: 8", 32" (in 96" height only), 30", 36", 48", and 60".
Height: 72" and 96".
Thickness: ~0.41".

1. Panel Size (Width and Height): **[As selected from manufacturer's full range of sizes] [As indicated or scheduled on Drawings] [_____]**.
2. Panel Thickness: 0.41-inch nominal.
3. Panel Weight: Approximately 1.65 lb/sq. ft.

C. Panel Designs:

1. Design Pattern and Color*: **[Insert Design Pattern Name & Number]**.* Produced with enhanced laminate performance.
2. Design Pattern and Color: **[_____]**.

EDITING NOTE: If design pattern and color are not specified above, delete and select one of the following options.

3. Design Pattern and Color: Specified in SCHEDULE Article of this Section.
4. Design Pattern and Color: Indicated on Drawings.
5. Design Pattern and Color: Selected from manufacturer's full range of available selections.

EDITING NOTE: Panel configurations are dependent on application(s). Panel edges are typically a combination of edges. Panels with a flat edge + tongue (or groove) edge are suitable for back walls. Panels with two flat edges is suitable for a no seam back wall. Panels with flat edge + bullnose edge are suitable for wing wall panels. Panels with two bullnose edges are feature panels for use behind vanities or as caps. Panels with tongue edge + groove edge are suitable extending the design beyond a surround or single panel width. Panels with bullnose edge + tongue (or groove) edge are suitable to cap (or end) the panel.

D. Panel Edge Configurations: Provide the following to suit installation conditions:

1. Tub/Shower Surrounds: Combination bullnose edge/flat edge, tongue edge/flat edge and groove edge/flat edge mated panels.
2. Panels Extending Beyond Surrounds: Tongue edge and groove edge.
3. Wing Walls: **[Combination flat/tongue and flat/groove] [Combination flat and bullnose]**.
4. Feature Panels: Two bullnose edges.

EDITING NOTE: Select configuration(s) above or select from one of the following options:

5. As indicated on Drawings.
6. **[_____]**.

E. Panel Performance Criteria: Based on testing pursuant to ISO 4586, for the following properties:

1. Light Resistance: Slight effect; Test Methods 32A and 33B.
2. Resistance to Staining: Not more than slight effect; Test Method 30A.
3. Resistance to Staining: 10; Test Method 31B.
4. Resistance to Wet Heat: No effect (non-gloss finishes) or slight effect (gloss finishes); Test Method 42.
5. Resistance to Dry Heat: No effect (non-gloss finishes) or slight effect (gloss finishes); Test Methods 17A and 18B.
6. Resistance to Impact (Large): 40 inches; Test Method 25.

7. Resistance to Cigarette Burn: 210 seconds; Test Method 37.
8. Dimensional Stability 0.5 percent (machine direction) and 0.8 percent (cross direction); Test Method 22B.

2.04 ACCESSORY MATERIALS

A. Adhesive and Sealant Product Compositions: One component, high modulus, mildew resistant multipurpose silyl-terminated polyether (hybrid) elastomeric products for use as an adhesive and sealant. Complies with ASTM C920, Type S, Grade NS, Class, Use NT, A, M, G. Performance Criteria:

1. Tensile Strength: 225 psi; ASTM D412.
2. Hardness, Shore A: 46; ASTM C661.
3. VOC: 18 g/L.

B. Panel Adhesive: Wilsonart® Adhesive “Panel Adhesive.”

1. Adhesive Color: White.

C. Color Coordinated Sealant: Wilsonart® Sealant “Color Coordinated Panel Sealant."

1. Sealant Color: **[Stone White] [Natural] [Tan] [Black] [As \indicated on Drawings] [_____]**.

2.05 INSTALLATION

A. Cut components in shop, to greatest extent practicable, in panel sizes and arrangements indicated according to approved shop drawings and manufacturer’s published fabrication requirements.

B. Provide cutouts for wall penetrations, trim edges according to manufacturer’s published requirements.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine substrates and conditions that could adversely affect the work of this Section.

B. Verify installation substrate materials are acceptable to receive the specified wall panels.

C. Substrates to receive wall panels must be sound, flat, smooth, dry, and free from dust, loose paint, or other surface contaminants.

D. Commencement of work will constitute acceptance of substrates and conditions to receive the work.

3.02 PREPARATION, GENERAL

A. Substrates to receive wall panels must be dry, smooth, and free from dust, dirt, and other surface contaminants.

B. Substrate surfaces must be plumb and square.

C. Prepared surfaces must be dry, smooth, and free of any dust or other contaminants.

D. Wipe prepared surfaces with a damp cloth and allow to dry.

EDITING NOTE: Include the following Article if a Project requirement.

3.03 PREPARATION FOR EXISTING TILE SUBSTRATES

A. Verify tile is solidly adhered to walls. Any loose tiles must be removed, filled with and approved mastic, and sanded smooth.

B. Rough up glossy tile surfaces using a belt sander with 60-grit sandpaper.

C. Prepared surfaces must be dry, smooth, and free of any dust or other contaminants.

D. Wipe prepared surfaces with a damp cloth and allow to dry.

3.04 WALL PANELS INSTALLATION

A. General: Install wall panels plumb, level, and true according to approved shop drawings and manufacturer's published installation instructions, including "Wetwall Waterproof Wall Panel System Installation Guide."

B. Tape over shower (or tub) drains prior to panel installation.

C. Cut panels using only approved power tools.

D. Dry fit panels, then mark plumbing locations for shower valves, shower heads, and similar items. Drill holes using only approved power tools.

E. Thoroughly clean panel backs prior to adhesive application on panel surfaces. Apply adhesive with bead dimensions, spacing, and locations from panel edges according to manufacturer's recommendations. Press into place on installation substrates to ensure full adhesive contact.

F. Apply color coordinated sealant to tongue edge panel prior to installation on wall surfaces. After panels are installed on substrates, apply color coordinated sealant to corners and bottoms for a watertight installation. Remove excess sealant from panel surfaces. Allow to cure for 24 hours.

3.05 CLEANING AND PROTECTION

A. Clean wall panels according to manufacturer's published maintenance instructions. Completely remove deleterious substances from finished surfaces using approved cleaning materials.

B. Protect completed work from damage during remainder of construction period.

3.06 SCHEDULE

EDITING NOTE: Schedule for wall panels may be inserted here if not indicated on Drawings or in Finish Schedule.

END OF SECTION 10 2126