

SECTION 092816 - GLASS-MAT FACED GYPSUM BACKING BOARDS

1.1 General: Provide glass-mat faced, moisture resistant gypsum backer board as shown and specified.

- A. Standards: Materials and installation shall conform to the following:
- ASTM C840 Standard Specification for Application and Finishing of Gypsum Board.
 - ASTM C1002 Standard Specification for Steel Self Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs
 - ASTM F1178 Standard Specification for Glass Mat Water-Resistant Gypsum Backing Panel
 - ASTM D3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
 - ASTM D6329 Standard Guide for Developing Methodology for Evaluating the Ability of Indoor Materials to Support Microbial Growth Using Static Environmental Chambers.
 - ASTM E96 Standard Test Methods for Water Vapor Transmission of Materials
 - Tile Council of North America, Inc. (TCNA): TCA Handbook for Ceramic Tile Installation, Current Edition.

2.1 Materials:

- A. Manufacturer: Georgia-Pacific Gypsum LLC, (800) 225-6119, internet: www.buildgp.com
- B. Fiberglass-Mat Faced Gypsum Backing Board: DensShield Fireguard Tile Backing Board complying with ASTM C1178, Type X, Square edges, 4' wide in maximum lengths available to minimize end joint conditions, 5/8" thick. Surfacing: Coated fiberglass mat on face, back and long edges.
- General use panels: 5/8" DensShield Fireguard Tile Backer, Georgia-Pacific Gypsum.
- C. Fasteners: Screws meeting ASTM C1002, with corrosion resistant treatment. Size and type per manufacturer's recommendations:
- Walls (Steel Frame): Bungle head, fine thread, sharp point rust resistant drywall screw
 - Walls (Walls Frame): Bungle head, coarse thread, sharp point rust resistant screw
- D. Metal Framing, Trim, joint treatment, adhesives, acoustical sealant, and sound attenuation insulation: Refer to Section 09260 Gypsum Board Systems

3.1 Installation

- A. Install DensShield at all tile walls excluding hood area as indicated on drawings.
- B. General: Install in accordance with ASTM C840, manufacturer's recommendations and TCA Handbook for Ceramic Tile Installation.
- Manufacturers Recommendations: refer to Current "Product Catalog", Georgia Pacific Gypsum.
 - Attach DensShield Tile Backer with grey side facing the interior. Tile should be applied on the grey coated side of DensShield Tile Backer. Cut panel to required size and make cutouts. Fit ends and dges closely. Do not leave gaps between panels.
 - DensShield Tile Backer may be cut by using a utility knife to score, then snap, working from the grey face side.
 - For walls, when used as a tile substrate a minimum 20-gauge steel or wood framing should be spaced no greater than 24" o.c. for 5/8" DensShield Tile Backer. Board can be applied horizontally or vertically.
 - Fasteners shall be spaced 6" o.c. for walls for wood and steel framing. Do not countersink. Drive fasteners flush with grey coated surface. See manufacturer installation Fastener Guide for proper selection.
 - In all corners, imbed with a bead of flexible sealant when installing panels into corner. Apply self-adhesive 2" wide fiberglass mesh tape and bed tape on all joints and corners with material used to set tiles.
 - Caulk or seal fixture/plumbing penetrations and abutments to dissimilar materials.
 - Do not use all purpose joint compound or tape in wet areas.
 - Do not apply DensShield Tile Backer directly to concrete or masonry block. Framing or furring of the walls is necessary.
 - DensShield Tile Backer should not be used for exterior installations.
 - DensShield Tile Backer panels should not be used as a base for nailing and mechanical fastening.
 - DensShield Tile Backer has a built in moisture barrier. Never install vapor retarders directly behind DensShield Tile Backer panels. In retrofit applications, some paints or other wall coverings may constitute a vapor barrier; remove or effectively penetrate these coverings prior to installing DensShield Tile Backer panels.
- C. Refer to Section 09260 Gypsum Board Systems for additional installation and sound treatment instructions

SECTION 09330 - QUARRY TILE

1.1 General: Provide quarry tile flooring and base as shown and specified.

- A. Standards: Materials and installation shall conform to the following:
- ANSI A137.1 "Ceramic Tile."
 - TCA "Handbook for Ceramic Tile Installation."

2.1 Materials:

- A. Manufacturers:
- Quarry Tile: Daltile, (877) 556-5728, internet: http://daltile.com
 - For ordering purposes, email all orders to chipotle@daltile.com
 - Waterproofing, Setting and Grouting Materials:
 - Setting and Grouting Materials and Tile Base Membrane: Mapei
 - For ordering purposes, email all orders to chipotle@daltile.com
 - For technical questions, contact Mapei, (800) 992-6273, internet: www.mapei.com
 - Stainless steel Outside Corner Cove Base by Decimet Sales Inc.
 - For ordering purposes, email all orders to chipotle@daltile.com
- B. Quarry Tile: Daltile 6" x 6" x 1/2" Quarry Textures with 5" base as scheduled on finish plan and appropriate trim; Color: "Ashen Gray" OT03
- Entire Kitchen Area: Provide non-abrasive finish quarry tile.
 - Rest Rooms: Provide non-abrasive finish quarry tile.
 - Outside Corner Cove Base (Kitchen): 5 1/2" Stainless steel corner by Decimet Sales Inc.
 - Inside Corner Cove Base: #QB-3565 1" x 5"
 - Bullnose Coveless Base: #QJ-1665, 6" x 6".
 - Bullnose Corner Coveless Base: #QRL-1665, 6" x 6".
- C. Waterproofing for elevated floor slabs: Mapei, Mapelastic AquaDefense, Premium Waterproofing and Crack Isolation Membrane
- D. Setting Adhesive: Mapei, Ultraflex 3, Color: Gray
- E. Grout: Mapei, Kerapoxy IEG CQ, Color: #9, "Gray", 1/4" grout joints.
- F. Quarry Tile Base Membrane: Mapei, Mapelastic AquaDefense, Premium Waterproofing and Crack Isolation Membrane

3.1 Installation

- A. Preparation: Clean substrate surfaces, scheduled to receive quarry tile, thoroughly and remove all coatings that may impair bond.
- Center tile fields both directions in each floor area. Adjust layout to minimize tile cutting. Avoid tile less than one-half size. Locate cuts to be least conspicuous.
 - Maintain units uniformly "in plane." Provide straight, uniform joint widths and grout lines.
- B. Elevated Floor Slabs: Install waterproofing membrane at elevated floor slab surfaces scheduled to receive quarry tile floor finish. Install membrane materials in accordance with manufacturer's installation instructions to produce a waterproof membrane of uniform minimum 30 mil thickness bonded securely to substrate.
- Extend waterproofing up vertical wall surfaces minimum 10" high.
 - Extend membrane down into floor drain flanges to assure continuous waterproofing at drainage points.
- C. Wet Areas: Install waterproofing membrane at all quarry tile wall base. Install membrane materials in accordance with manufacturer's installation instructions to produce a waterproof membrane of uniform minimum 30 mil thickness bonded securely to substrate.
- Extend waterproofing up all vertical wall surfaces receiving quarry tile base minimum 10" high. Extend waterproofing membrane 10" minimum horizontally from all vertical wall surfaces receiving quarry tile base.
- D. Installation: Install, grout and clean ceramic tile in accordance with referenced TCA installation details and ANSI standard specifications for setting methods scheduled.
- Floors: Latex-portland cement mortar on concrete; TCA detail F113 and ANSI A108.5, grout ANSI A108.10.
 - Base: Latex-portland cement mortar on cement board.
 - Outside stainless steel Corner Cove Base: Install a day prior to quarry tile base. Apply adhesive liberally to the back of the corner cove base and press and tape firmly in place until adhesive has set. Neatly caulk the top of the stainless with GE Silicone II (color Aluminum).
 - Over Cement Board: Bond with GE Silicone II, 100% silicone sealant for aluminum and metal.
 - Over Stainless Steel: Bond with Hydroment Ultra-Set.

SECTION 09340 - CERAMIC TILE

1.1 General: Provide ceramic tile as shown and specified.

- A. Standards: Materials and installation shall conform to the following:
- ANSI A137.1 "Ceramic Tile."
 - TCA "Handbook for Ceramic Tile Installation."

2.1 Materials:

- A. Manufacturers:
- Ceramic Tile: Daltile, P: (877) 556-5728, internet: http://daltile.com
 - For ordering purposes, email all orders to chipotle@daltile.com
 - Accent Tile: Nemo Tile, Hudson (Glazed Brick) Collection
 - Contact: Nic Jennings, A&D Account Mgr, P: (212) 477-1425 x225, njennings@nemotile.com
 - Nemo Hudson Old Bronze tile has an 10-12 week lead time and should be ordered as soon as possible.
- B. Ceramic Tile: Series - Color Wheel Glazed Ceramic:
- Kitchen Tile or as noted in plans
 - Color- Arctic White 0190, Size - 4 x 16, Pattern - stacked bond
 - Accent Tile
 - Color - Old Bronze F-1387-B, Size 2 x 8, Pattern - stacked bond
- C. Setting Adhesive: Thinsit Mortar, Mapei, Ultraflex LFT - Gray
- D. Grout:
- Kitchen Tile or as noted in plans
 - Mapei, Series - Flexcolor CQ - Gray #09, 1/8" grout joints.
 - Accent Tile
 - Mapei, Series - Flexcolor CQ - Cocoa #79, 1/8" grout joints.

3.1 Installation

- A. Preparation: Clean substrate surfaces scheduled to receive ceramic tile thoroughly and remove all coatings that may impair bond.
- Protect surrounding work from damage.
 - Remove any curing compounds or other contaminants.
 - Vacuum clean surfaces and damp clean.
 - Install cementitious backer board or glass-mat faced gypsum backing board as indicated in drawings in accordance with ANSI A108.11 and board manufacturer's instructions. Tape joints and corners, cover with skim coat of dry-set mortar to a feather edge.
 - Prepare substrate surfaces for adhesive installation in accordance with adhesive manufacturer's instructions.
- B. Kitchen:
- Install, grout and clean ceramic tile in accordance with referenced TCA installation details and ANSI standard specifications for setting methods scheduled.
 - Lay tile in horizontal stack bond, following detail drawings for layout considerations. Horizontal rows of tile shall be full-height courses, unless noted otherwise.
 - Arrange pattern so that a full tile or joint is centered on each wall horizontally and that no tile less than 1/2 width is used at the ends of the wall. Exception: when one end of the wall is a tile-to-gypsum board transition. Do not interrupt tile pattern through openings.
 - Use specified stainless steel corner guards at tile-to-tile and tile-to-FRP outside corners.
 - Use corner bead of 100% silicone sealant, color to match grout, at inside corners where tile meets tile.
 - Use corner bead of 100% silicone sealant, white, at inside corners where tile meets paint gyp. board, tile meets FRP or tile meets aluminum.
 - Cut and fit tile to penetrations through tile, leaving sealant joint space. Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make joints watertight, without voids, cracks, excess mortar, or excess grout.
 - Sound tile after setting. Replace hollow sounding units.
 - Keep expansion joints free of adhesive or grout. Allow tile to set for a minimum of 48 hours prior to grouting. Apply sealant to junction of tile and dissimilar materials and junction of dissimilar planes. Refer to section 07900 Joint Sealers.
 - Clean tile and grout surfaces.

SECTION 09510 - SUSPENDED CEILING SYSTEMS

1.1 General: Provide suspended ceiling systems as shown and specified.

- A. Standards: Materials and installation shall conform to the following:
- CISCA "Acoustical Ceilings - Use and Practice."
 - ASTM G635.
 - ASTM G636.

2.1 Materials:

- A. Manufacturer:
- USG Interiors, Inc., (800) 950-3839, www.usg.com
 - Pittcon Industries, (800) 637-7638, www.pittconindustries.com
- B. Ceiling Panels: USG "Sheetrock Lay-In ClimaPlus No. 3270" ceiling panels with white, stipple texture, vinyl facing, 24" x 48" x 1/2".
- C. Light Pocket: Pittcon "LP-700-800", White, Height of cove should be field verified by GC to end on a full tile height.
- Light pocket can have up to 6 week lead time and should be ordered as soon as possible.
 - Light pocket endcap should only be installed when the end of the cove is not against a wall.
- D. Suspension System: Provide intermediate duty, structural class, direct hung systems adequate to support light fixtures, ceiling diffusers and other normal accessories.
- Exposed "Tee" Grid System for use with Lay-In Ceiling panels: USG "Donn DX System" non-fire rated with 15/16" exposed face, cold-rolled galvanized steel with aluminum face cap, white paint finish on exposed surfaces. Provide hemmed edge aluminum wall angles, 15/16" exposed leg, white paint finish matching exposed grid.
 - Concealed "Tee" Grid System for use with Painted Gypsum Board Ceilings & Soffits or with Cementitious Wood Fiber Acoustical Panels (Tectum): USG "DGLW" Heavy Duty Drywall Suspension System with 1 5/8" deep by 1 1/2" wide main tees and 1 1/2" deep by 1 1/2" wide cross tees.
 - Hanger Wire: No. 12 SWG galvanized steel wire.
 - Heavy Duty "Tee" Grid System for use with Felt Baffle Ceiling System: USG Donn Brand DX/DXL with 15/16" wide face tees, color: black

3.1 Installation

- A. Install acoustical ceiling materials and suspension systems in strict accordance with manufacturer's recommendations, complying with governing regulations and industry standards applicable to the work.
- B. Suspension system installation shall be laser leveled with a maximum surface leveling tolerance of 1/8" in 12'-0".
- C. Install exposed Tee suspension systems with main tees nominally 12 ft long spaced 48 in O.C. and cross tees nominally 4 feet long spaced 24 in O.C.
- D. Install concealed Tee suspension systems with main tees nominally 12 ft long spaced 24 inches O.C. and cross tees nominally 2 ft long spaced 48 in O.C.
- E. Hanger wire shall be spaced 48" O.C. along main tees, at all four corners of light fixtures (where applicable), at midpoint of cross tees adjacent to light fixtures and duct outlets, and adjacent to main tee splices.
- F. Secure wire hangers by looping and wire-tying either directly to building structure or to hangers that are secure and appropriate for substrate.
- G. Provide edge trim molding at perimeter of acoustical ceiling installation and intermediate vertical surfaces. Use maximum lengths. Miter trim corners to Provide tight, accurate joints. Connect moldings securely to substrate surfaces.

SECTION 09653 - RUBBER WALL BASE

1.1 General: Provide resilient rubber wall base as shown and specified.

- A. Standards: Materials and installation shall conform to the following:
- ASTM D 2240 Rubber - 85 Shore A

2.1 Materials:

- A. Manufacturer:
- Johnsonite, Inc., (800) 899-8916, internet: www.johnsonite.com
- B. Resilient Rubber:
- .125" (3.17 mm) Thickness
 - "Black" color
 - Straight (toeless) or coved as specified on finish plan
 - Inside and outside corners with 4" returns.
- C. Setting Adhesive: Johnsonite 960 Acrylic Cove Base Adhesive

3.1 Installation:

- A. Preparation: Clean substrate surfaces scheduled to receive resilient rubber and vinyl wall base thoroughly and remove all coatings that may impair bond. A uniform temperature of at least 65 degrees Fahrenheit shall be maintained for 24 hours before, during and after the installation is completed. The wall base and adhesives shall be conditioned in the same manner. Coiled wall base shall be uncoiled and lay flat for at least 24 hours at 65 degrees Fahrenheit prior to installation. Floor and walls shall be clean, dry, and free of dust, all paints, wallpaper, and all other foreign material, which may affect proper adhesive bonding. Wall base may be installed on interior plaster, gypsum wall board, concrete, masonry, mineral-reinforced cement board or similar porous surfaces. Wall base shall not be installed on surfaces that will be exposed to drastic temperature changes or moisture.
- B. Application: Use a 1/8" square notch trowel to apply adhesive. Allow adhesive to set up and then apply wall base in accordance with manufacturer's instructions.

SECTION 09770 - SPECIAL WALL SURFACING - PHENOLIC INTERIOR WALL PANELS

1.1 General: Provide Stonewood solid phenolic panels and accessories for interior walls and millwork as shown and specified.

1.2 Related Sections:

- A. Section 05400 - Cold Formed Metal Framing
- B. Section 06210 - Finish Carpentry and Millwork
- C. Section 07900 - Joint Sealers
- D. Section 09260 - Gypsum Board Systems

1.3 Standards: Materials and construction shall conform to the following:

- A. ASTM D638 - 10 Standard Test Method for Tensile Properties of Plastics.
- B. ASTM D790 - 10 Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
- C. ASTM E84 - 12 Standard Test Method for Surface Burning Characteristics of Building Materials.
- D. NEMA Standards Publication LD3-2005. High pressure decorative laminates.

1.4 Design/Performance Requirements:

- A. Design and size of wall panel assemblies including wall panels, mounting system to support weight of panels.
- B. Allow for thermal movements from ambient and surface temperature changes by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on expected movement of material as defined in fabrication guidelines.

1.5 Quality Assurance:

- A. Manufacturer's Qualifications:
- Sufficient plant facilities to provide quality and quantity of materials as required without delaying progress of work.
 - Minimum of 40 years of experience in paper saturation of phenolic resin, and producing phenolic paper laminate.
- B. Fabricator:
- Fabricated by the manufacturer, and/or;
 - Contracted by the customer, minimum 5 years' experience in fabrication work for the size and complexity of the projects.
- C. Installer
- Proven professional installer with a minimum of 5 years of documented experience.
 - Approved by the manufacturer.

1.6 Delivery, Storage and Handling:

- A. Refer to Section 01400 Quality Requirements.
- B. Delivery: Deliver materials in manufacturer's original unopened containers/packages, with labels clearly identifying product name, manufacturer, color/texture and weight.
- C. Storage:
- Keep panels dry and stored indoors in original packaging until installation.
 - Store Stonewood panels on a smooth, dry, flat surface, making sure there are no bends or bowing in the load.
 - Do not store directly on cold concrete floors as moisture may migrate.
 - Do not store under heating units or air conditioning units.
 - Keep load stored within outer wrap until use. Remove pallet straps once load is moved to storage area.
 - Reseal plastic wrap if partial load is used.
 - Keep foam dividers in place.
- D. Handling:
- Handle materials in accordance with manufacturer's instructions.
 - Protect materials during handling to prevent damage.
 - When moving sheets, lift evenly to avoid dragging panels across each other and scratching the surface. PLEASE TAKE CARE NOT TO SCRATCH THE SURFACE OF THE PANEL DURING HANDLING, MACHINING AND INSTALLATION.

1.7 Warranty:

- A. Limited Warranty: Fibers warrants Stonewood for a period of 10 years. Refer to www.stonewoodpanels.com for details.

1.8 Project Conditions:

- A. Environmental Limitations: Buildings are to be fully enclosed prior to installation with sufficient heat (70 degrees) and ventilation consistent with good working conditions for finish work.
- B. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
- C. Field Measurements: Verify locations of structural members and wall opening dimensions by field measurements before composite wall panel fabrication and indicate field measurements on Shop Drawings.

2.1 Manufacturer:

- A. Fibersin Industries, Inc. PO Box 808, Oconomowoc, WI 53066. Phone: (262) 567-4427, Fax: (262) 567-4814, Web Site: www.stonewoodpanels.com Email: info@fibersin.com
- B. Made in the United States from materials sourced in the USA.

2.2 Application:

- A. Apply Solid Phenolic Laminate Wall Panels at walls and other surfaces as indicated on the Drawings. Phenolic Wall Panels are architectural wall panels applied over a sheathed stud wall or other solid blocking per Drawings.

2.3 Interior Stonewood:

- A. Material: Solid phenolic laminate panel w/o overlay.
- B. Color: Black ND
- C. Finish: Matte
- D. Standard Size: 48"x96"
- E. Panel Thickness: 5/16", 1/2"
- F. Panel Core: HR Black

2.4 Minimum Material Properties

- A. NEMA Requirements:
- | Description | NEMA Requirements | |
|----------------------------|-------------------|-------|
| Dimensional Change: | 3.11 | |
| Length (Machine Direction) | 0.3% Maximum | 0.25% |
| Width (Cross Direction) | 0.7% Maximum | 0.50% |
| Density (PCF) | 82 | |
- B. Mechanical Properties:
- | Property | NEMA Requirements | |
|------------------------------|---------------------|----------------------|
| Flexural Strength ASTM D-790 | | |
| MD (psi) | 18,000 | 20,000 |
| CD (psi) | 12,000 | 16,000 |
| Flexural Modulus ASTM D-790 | | |
| MD (psi) | 1.6x10 ⁶ | 2.0 x10 ⁶ |
| CD (psi) | 1.4x10 ⁶ | 1.5x10 ⁶ |
| Tensile Modulus ASTM D-638 | | |
| MD (psi) | 18,000 | 18,000 |
| CD (psi) | 12,000 | 13,000 |
- C. Fire Resistance:
- | | Class A (0.250") | Class B (0.250") |
|--|------------------|------------------|
| Flame Spread Index - ASTM E-84 (BLDG): | 5 | 30 |
| Smoke Developed Values - ASTM E-84 (BLDG): | 5 | 105 |
| Fire Rating (Standard Product is Class B): | A | B |
- D. Manufacturing Tolerance:
- | | |
|------------------------------------|----------|
| Thickness (.156 to .375) | +/- .020 |
| Thickness (above .375 to 1.000) | +/- .030 |
| CNC Shaped Size (Length - Width) | +/- .020 |
| Drill Diameter | +/- .003 |
| Drill Depth | +/- .020 |
| CNC Hole to Hole | +/- .020 |
| CNC Hole to Edge (1 Oper) | +/- .030 |
| CNC Hole to Edge (2 Oper) | +/- .030 |
| Routing - (Slots Width and Length) | +/- .015 |
| Routing - (Slots Depth) | +/- .020 |

- C. Fire Resistance:
- | | Class A (0.250") | Class B (0.250") |
|--|------------------|------------------|
| Flame Spread Index - ASTM E-84 (BLDG): | 5 | 30 |
| Smoke Developed Values - ASTM E-84 (BLDG): | 5 | 105 |
| Fire Rating (Standard Product is Class B): | A | B |
- D. Manufacturing Tolerance:
- | | |
|------------------------------------|----------|
| Thickness (.156 to .375) | +/- .020 |
| Thickness (above .375 to 1.000) | +/- .030 |
| CNC Shaped Size (Length - Width) | +/- .020 |
| Drill Diameter | +/- .003 |
| Drill Depth | +/- .020 |
| CNC Hole to Hole | +/- .020 |
| CNC Hole to Edge (1 Oper) | +/- .030 |
| CNC Hole to Edge (2 Oper) | +/- .030 |
| Routing - (Slots Width and Length) | +/- .015 |
| Routing - (Slots Depth) | +/- .020 |

2.5 Accessories (Fasteners):

- A. Panel Fasteners: #10 x 1-1/4" flat Phillips head black oxide wood screws to be used with wood blocking and #10 x 1-1/4" flat Phillips head black oxide sheet metal screws to be used with sheet metal blocking as recommended by the manufacturer.
- B. Provide exposed fasteners with heads matching color of composite wall panels by means of factory-applied coating.
- C. Fasteners shall be designed to withstand the effects of dead load and accommodate hygrothermal expansion/contraction of the panel.
- D. Wall Panel Accessories: Provide components required for a complete composite wall panel assembly including trim, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of composite wall panels unless otherwise indicated.

3.1 Manufacturer's Execution Instructions:

- A. Compliance: Comply with manufacturer's/fabricator's/supplier's product data, handling and installation instruction/manual, shop drawings, shipping container/package ticket identification, etc.

3.2 Examination:

- A. Verify correct panels received including dimension, tolerance, color/texture.
- B. Verify correct attachment system received for the specific project/job.
- C. Verify all the documents including shop drawing and installation guidelines.
- D. Verify installation conditions are satisfactory to receive work of this section before the commencement
- E. Verify substrate installation is complete, flat, and true to plane.
- F. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.3 Preparation:

- A. Field Measurements: Verify prior to fabrication and installation of the cladding panel.
- B. Protect surrounding areas and surfaces to preclude damage during work of this section.
- C. Lay out work before beginning installation as necessary for true, plumb and aligned panel installations.
- D. Verify locations of joints and panel lengths.

3.4 Installation:

- A. Conform to manufacturer's instructions and provisions of shop drawings.
- B. Install to allow hydro-thermal expansion/contraction.
- C. Use appropriate techniques/tools to work with the panel.
- D. Do not force to fit, do not bend, stretch/compress.
- E. Make cutting and fitting neat, square, and true. Where required cut, de-burr edges, and clean fillings from adjacent surfaces.
- F. Do not install damaged or questionable panels.
- G. Install solid phenolic wall panels plumb and level and accurately spaced.
- H. Anchor panels and other components of the work securely in place, with provisions for thermal and structural movement.
- I. Shim or otherwise plumb substrates receiving composite wall panels.
- J. Do not use construction adhesives to apply wall panels directly to substrates or wall board. Use mechanical fasteners only.

3.5 Erection Tolerances:

- A. Shim and align composite wall panel units within installed tolerance of 1/4 inch in 20 feet, non-accumulative, on level, plumb, and location lines as indicated and within 1/8 inch offset of adjoining faces and of alignment of matching profiles.

3.6 Field Quality Control:

- A. Manufacturer's Field Service: Provide field services to ensure product installation is in accordance with manufacturer's/fabricator's/supplier's instructions and installation manual, shop drawings etc.

3.7 Adjusting:

- A. Correct identified defects and irregularities.
- B. Replace damaged soiled, and discolored work.

3.8 Cleaning:

- A. Leave installation clean and free from residue and debris from work of this Section.
- B. Panels best cleaned with warm soapy water and rinsed with clear water; allowed to dry fully.

Consultant:



architecture + planning
589 w. nationwide blvd.
suite b
columbus, ohio 43215
tel: 614.487.8770
fax: 614.487.8777



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COLUMBIA DEVELOPMENT
1845 ST. JULIAN PLACE
COLUMBIA, SC 29204
TELEPHONE: 803.744.5900
INTERNET:
WWW.COLUMBIADEVELOPMENT.COM

STORE NO.: 000

CMG FAYETTEVILLE SHELL
3017 RAEFORD RD.
FAYETTEVILLE, NC 28303

Issue Record:

01.19.21	TENANT/ OWNER REVIEW
03.08.21	PERMIT SET

Revisions:

Drawn:

Checked:

KM

KM

Project No.

CMGXXX

Contents:

ARCHITECTURAL
SPECIFICATIONS

G016