

DIVISION 06: WOOD AND PLASTICS

- A. Rough Carpentry:**
1. **Summary:**
- a. Miscellaneous Lumber for Wood Blocking and Nailers:
- 1) Wood Blocking and Nailers in contact with roofing or waterproofing.
- 2) Wood Blocking and Nailers in contact with concrete or masonry.
- 3) Floor plates installed over concrete slabs-on-grade.
- b. Plywood for Interior Equipment Backing Panels
- c. Plywood for Exterior Sheathing:
- 1) Plywood Sheathing at Typical Exterior Walls.
- d. Building Wrap:
2. **Related Sections:**
- a. Division 05 Section "Cold-Formed Metal Framing"
- b. Division 07 Section "Cementitious Siding" for exterior furring.
- c. Refer to Structural Drawings and Structural Specifications for the following:
- 1) Plywood Sheathing at Exterior Shear Walls
- 2) Plywood Sheathing at Roofs.
3. **Performance Requirements:**
- a. **Fire Retardant-Treated Materials:**
- 1) Miscellaneous Lumber: Comply with performance requirements in AWPA C20.
- b. **Plywood:** Comply with performance requirements in AWPA C27.
- c. **Wood-Preservative-Treated Lumber by Pressure Process:**
- 1) Comply with requirements in AWPA C2
- 2) Comply with requirements in AWPA C31, where lumber is not in contact with the ground and is continuously protected from liquid water.
- 3) Kiln-dry lumber after treatment to a maximum moisture content of 19 percent.
- c. **Plywood Products:**
- 1) Provide plywood as indicated and as acceptable to authorities having jurisdiction and for which current model code research or evaluation reports exist that show compliance with building code in effect for the Project.
- d. **Building Wrap:** Weather-Resistant Building Wrap complying with ASTM E 1677, Type I air retarder, and which meets any other requirements of the local jurisdiction.
- 1) flame-spread index less than 25
- 2) smoke developed index less than 450, when tested according to ASTM E 84
- 3) UV stabilized
4. **Quality Assurance:**
- a. **Forest Certification:** Provide materials produced from wood obtained from forests certified by an FSC-accredited certification body to comply with FSC STD-01-001, "FSC Principles and Criteria for Forest Stewardship".
- b. **Building Wrap:** Installer shall be certified by the Building Wrap Manufacturer, as a qualified installer.
5. **Submittals:**
- a. **Product Data:** for each type of process and factory-fabricated product. Indicate component materials and dimensions and include construction and application details.
6. **Materials and Fasteners:**
- a.1 Lumber for Wood Blocking and Nailers:
- 1) Exterior-Treated, Fire-Retardant-Treated Lumber: Exterior-Type, Mixed Southern Pine, No. 2 grade, SPIB.
- 2) Interior Fire-Retardant-Treated Lumber: Interior Type A, Mixed Southern Pine, No. 2 grade, SPIB.
- a.2 Fasteners for Wood Blocking and Nailers:
- 1) Provide fasteners of size and type indicated and that comply with requirements specified.
- 2) Where rough carpentry is exposed to weather, is pressure-preserved-treated or in contact with concrete or masonry, provide fasteners with hot-dip zinc coating complying with ASTM A 153 / A 153M.
- 3) Power-Driven Fasteners: NES NER-272.
- 4) Bolts: Steel bolts complying with ASTM A 307, Grade A, with ASTM A 563 hex nuts, and where indicated, flat washers.
- b.1 Plywood for Telephone and Electrical Equipment Backing Panels:
- 1) Interior, Fire-Retardant-Treated, DOC PS 1, 3/4 inch (19-mm-) nominal thickness.
- b.2 Fasteners for Interior Plywood Equipment Backing Panels:
- 1) Provide fasteners of size and type indicated and that comply with requirements specified.
- c.1 Exterior Sheathing:
- 1) Plywood Sheathing at Exterior Shear Walls: Refer to Structural Drawings and Specifications.
- 2) Plywood Sheathing at Typical Exterior Walls: 1/2-inch (13-mm-) thick APA Rated Plywood.
- c.2 Fasteners for Exterior Plywood Sheathing:
- 1) Provide fasteners of size and type that comply with requirements indicated in the Structural Drawings and Specifications.
- d.1 Building Wrap:
- 1) Basis-of-Design Product: Tyvek Commercial Wrap, as manufactured by DuPont.
- d.2 Related Accessories:
- 1) Building-Wrap Tape: Pressure-sensitive plastic tape recommended by building-wrap manufacturer, for sealing joints and penetrations in building-wrap.
7. **Rough Carpentry Installation:**
- a. Set rough carpentry to required levels and lines, with members plumb, true to line, cut and fitted.
- b. Fit rough carpentry to other construction; scribe and cope as needed for accurate fit.
- c. Locate blocking, nailers and plates to comply with requirements or attaching other construction.
- d. Where wood-preserved-treated lumber is installed adjacent to metal decking, install continuous flexible flashing separator between wood and metal decking.
- e. Securely attach rough carpentry work to substrate by anchoring and fastening as indicated on the Drawings, or if not indicated, complying with the following:
- 1) NES NER-272 for power-driven fasteners.
- 2) Table 2304.9.1, "Fastening Schedule", in ICC's International Building Code.
8. **Exterior Sheathing Installation:**
- a. Coordinate sheathing installation with installation of materials installed over sheathing so sheathing is not exposed to precipitation or left exposed at end of the workday when rain is forecast.
- b. Coordinate plywood wall sheathing installation with flashing and joint-sealant installation, so that these materials are installed in sequence and manner that prevent exterior moisture from passing through completed assembly.
- c. Securely attach exterior sheathing to substrate by anchoring and fastening as indicated on the Drawings, or if not indicated, complying with the following:
- 1) NES NER-272 for power-driven fasteners.
- 2) Table 2304.9.1, "Fastening Schedule", in ICC's International Building Code.
9. **Building-Wrap Installation:**
- a. Comply with Manufacturer's written installation instructions.
- b. Coordinate building-wrap installation with exterior finish materials manufacturer's weather barrier requirements.

DIVISION 06: WOOD AND PLASTICS (cont.)

- B. Manufactured Urethane Ornamental Trim (MUOT):**
1. **Summary:** As indicated in the Drawings at Exterior Facade Tenant Storefronts.
- a. Exterior Cornice Moldings:
- b. Exterior Roof Eave Brackets:
2. **Related Sections:**
- a. Division 05 Section "Metal Fabrications" for connection attachment of MUOT fabrications to structural steel framing.
- b. Division 07 Section "Joint Sealants", for joint protection and sealants at MUOT fabrications.
- c. Division 07 Section "Flashing and Sheet Metal for flashing at MUOT fabrications.
- d. Division 09 Section "Painting", for paint finish at MUOT fabrications.
3. **Performance Requirements:**
- a. Provide moulded units which pass ASTM E84 for Class A or Class B requirement by UL or other testing and inspecting agency acceptable to authorities having jurisdiction.
4. **Quality Assurance:**
- a. **Manufacturer's Qualifications:** Manufacturer experienced in producing moulded decorative millwork of the types required in this project.
- b. **Installer Qualifications:** Installer experienced in the installation of work similar to the work required in this project.
- c. **Mock-Ups:** Install at project site a job mock-up using specified products and installation methods acceptable to Architect and Owner.
5. **Submittals:**
- a. **Product Data:** Manufacturer's descriptive literature, specifications, installation instructions and limited warranty.
- b. **Shop Drawings:** Indicating layout, profiles and product components, including anchorage accessories, colors and textures.
- c. **Samples:** Indicating finishes, colors and textures.
6. **Products:**
- a. **Manufacturer:** Specis Moulders Inc.; Pembina, ND; Tel: 204-388-6700; website: www.specis-moulders.com
- 1) Block: Part No.: BL 3003; Size: 2'-0" (h) x 1'-6" (d) x 3" (thk.)
- 2) Moulding: Part No.: MD 1862; Size: 11 5/8" (h) x 11 5/8" (d) x 12'-0" (l)
- 3) Moulding: Part No.: MD 1347; Size: 6 3/4" (h) x 6 3/4" (d) x 12'-0" (l)
- b. **Manufacturer:** FYPON Ltd.; Maumee, OH; Tel: 1-800-446-3040; website: www.fypon.com
- 1) Bracket: Ref. No.: 1585-905; Size: 30" (h) x 30" (d) x 6" (thk.)
- c. **Product Finish:** Provide units with Manufacturer's standard barrier coat and shop-applied primer coat, resistant to UV degradation and providing interim UV protection, which is suitable to receive field applied 100% acrylic latex paint finish.
7. **Related Accessories:**
- a. **Adhesive:** Compatible urethane-based adhesive, as recommended by the Manufacturer.
- b. **Joint Compound:** Compatible putty filler, as recommended by the Manufacturer.
- c. **Fasteners:** Corrosive-resistant trim screws or finishing nails, as recommended by Manufacturer.
8. **Installation:**
- a. Verify substrate conditions are acceptable for product installation in accordance with Manufacturer's instructions. Do not proceed with installation until unsatisfactory conditions are addressed.
- b. Install in accordance with Manufacturer's product data, installation instructions and approved submittals.
- c. Fill holes using compound recommended by the Manufacturer and sand to prepare surface for field painting.
- d. Field paint in accordance with Manufacturer's requirements and in accordance with Division 09 Section "Painting".

DIVISION 07: THERMAL AND MOISTURE PROTECTION (cont.)

- A. Vapor Barrier:**
1. **Summary:** Refer to Structural Drawings and Specifications.
- B. Bituminous Dampproofing:**
1. **Summary:**
- a. **Materials:** Cold-applied, emulsified-asphalt dampproofing.
- b. **Related Materials:** Emulsified-asphalt primer
2. **Related Sections:**
- a. Division 04 Section "Masonry" for concrete masonry units.
3. **Performance Requirements:**
- a. **Dampproofing:**
- 1) Trowel Coats: ASTM D 1227, Type II, Class 1.
- 2) Fibered Brush and Spray Coats: ASTM D1227, Type II, Class 1.
- 3) Brush and Spray Coats: ASTM D 1227, Type III, Class 1.
- 4) VOC Content: 0.25 lb/gal. (30 g/L) or less.
- b. **Primer:**
- 1) ASTM D 1227, Type III, Class 1, except diluted with water as recommended by Manufacturer.
- 2) VOC Content: 0.25 lb/gal. (30 g/L) or less.
4. **Available Products:** Subject to compliance with requirements, manufacturers offer products that may be incorporated into the Work include, but are not limited to, the following:
- a. ChemMasters Corp.
- b. Degussa Building Systems; Sonneborn Brand Products.
- c. Gardner Gibson, Inc.
- d. Henry Company.
- e. Kamak Corporation.
- f. Koppers Inc.
- g. W. R. Meadows, Inc.
- h. Tamms Industries, Inc.
5. **Application:**
- a. Comply with Manufacturer's written recommendations
- b. Apply primer and dampproofing to provide continuous plane of protection on exterior face of inner wythe of exterior concrete masonry cavity walls, at not less than 1 gal. / 100 sq. ft., at the following conditions:
- 1) At outer face of exterior concrete masonry cavity walls with Brick Masonry Veneer
- 2) At outer face of exterior concrete masonry cavity walls with Cementitious Siding Veneer.
- At outer face of exterior concrete masonry cavity walls with Metal Stud Framing directly attached.

DIVISION 07: THERMAL AND MOISTURE PROTECTION (cont.)

- C. Building Wrap:**
1. **Summary:** Refer to Division 06 Section "Rough Carpentry".
- D. Building Insulation:**
1. **Summary:**
- a. Foil-Faced, Glass Fiber Batts at framed exterior walls.
- b. Rigid Foam-Plastic Board thermal insulation at below-grade edge of concrete turn-down slabs.
2. **Related Information:**
- a. Refer to Division 04 Section "Masonry", for Concrete Masonry-Cell Insulation.
- b. Refer to Division 07 "Polymer-Based Exterior Insulation System", for rigid board insulation integral with EIFS.
- c. Refer to Division 07 Section "Thermoplastic Polyolefin Roofing", for rigid board roof insulation integral with TPO Roofing.
- d. Refer to Division 09 Section "Acoustical Treatments", for sound insulation batts.
3. **Quality Assurance:**
- a. **Surface-Burning Characteristics:** Provide products with documentation which confirm compliance with ASTM E 84.
4. **Performance Requirements:**
- a. **Reinforced-Foil-Faced, Glass Fiber Batts:** ASTM C 665, Type III (reflective faced), Category 1 (membrane is a vapor barrier), faced with foil scrim, foil-scrim kraft, or foil-scrim polyethylene.
- b. **Class A (faced surface with a flame-spread index of 25 or less)**
- 1) R-Value: 19, and as required, based on ComCheck Energy Code Compliance Calculations.
- c. **Rigid Foam-Plastic Board: Extruded-Polystyrene Boards,** in accordance with ASTM C 578
- 1) Flame Spread Index: 75 maximum, in accordance with ASTM E 84.
- 2) Smoke-Developed Index: 450 maximum,, in accordance with ASTM E 84.
- 3) R-Value: As required, based on ComCheck Energy Code Compliance Calculations.
5. **Submittals:**
- a. **Product Data** for each type of insulation required
- b. **Product Test Reports**
6. **Products:**
- a. **Reinforced-Foil-Faced, Glass Fiber Batts:** Subject to compliance with requirements, provide products from one of the following manufacturers:
- 1) CertainTeed Corp.
- 2) Johns Manville
- 3) Owens Corning
- b. **Rigid Foam-Plastic Extruded Polystyrene Boards:** Subject to compliance with requirements, provide applicable density for perimeter turn-down-slab insulation from the following options:
- 1) Type VI, 40 psi (276 kPa)
- 2) Type VII, 60 psi (414 kPa)
- 3) Type V, 100 psi (690 kPa).
- b.1 Provide product from one of the following manufacturers:
- 1) Dow Chemical Co.
- 2) Owens Corning
7. **Installation:** Comply with insulation manufacturer's written instructions applicable to products and applications indicated.
- a. **Framed Exterior Walls:**
- 1) Set batt insulation units with foil facing placed toward interior of construction.
- 2) Tape joints and ruptures in vapor-retarder facings, and seal each continuous area of insulation to ensure airtight installation.
- b. **Below-Grade Insulation:** On horizontal surfaces under slabs, loosely lay insulation units according to manufacturer's written instructions. Stagger end joints and tightly abut insulation units.
- 1) If not otherwise indicated, extend insulation a minimum of 24-inches (610-mm) in from perimeter edge of slab.
- E. Sheet Metal Flashing and Trim:**
1. **Summary:** Factory-finished, field-formed and field-assembled sheet metal flashing components at the following conditions:
- a. Roof Parapet Wall Cornice Copings.
- b. Through-Wall Finish Materials Transition Flashing
2. **Related Sections:**
- a. Division 07 Section "Polymer-Based Exterior Insulation Finish System" for EIFS-related flashing requirements.
- b. Division 07 Section "Cementitious Siding" for Siding-related flashing requirements.
- c. Division 07 Section "Thermoplastic Polyolefin Roofing System" for TPO Roofing-related flashing requirements.
3. **Performance Requirements:**
- a. **Wind Resistance:** Capable of resisting Wind Zone forces applicable to the Project location, in accordance FMG Loss Prevention Data Sheet 1-49.
4. **Quality Assurance:**
- a. **Parapet Wall Cornice Coping** shall be included in the Exterior Wall Finish Mock-up.
- b. **Quality Standard:** SMACNA's "Architectural Sheet Metal Manual".
5. **Warranty:**
- a. **Finishes:** 20 years, against deterioration, excessive color change and chalking.
6. **Submittals:**
- a. **Product Data**
- b. **Shop Drawings** showing layouts and profiles of sheet metal flashing and trim.
- E. Sheet Metal Flashing and Trim (cont.):**
- Materials and Fabrications: Custom fabricate sheet metal flashing and trim to comply with recommendations in SMACNA's "Architectural Sheet metal Manual" that apply to design, dimensions, geometry, metal thickness and other characteristics of items indicated.
- a. **Roof Parapet Wall Cornice Coping:** Fabricate in minimum 96-inch-(2400 mm-) long, but not exceeding 10-foot- (3-m-) long sections. Furnish with 6-inch- (150-mm-) wide, joint cover plates. Furnish with continuous cleats to support edge of external leg and internal leg. Miter corners, seal, and solder or weld watertight. Fabricate from the following material:
- 1) Aluminum Sheet with smooth surface: 0.050-inch thick.
- 2) Exposed Coil-Coated Finish: Fluoropolymer Finish, AAMA 620
- b. **Through-Wall Exterior Materials Transition Flashing:**
- 1) Steel Sheet.
- 2) Exposed Coil-Coated Finish: Fluoropolymer Finish, AAMA 620
8. **Related Materials:**
- a. **Underlayment Materials:** As required for complete and watertight installation.
- 1) Roof Parapet Wall Cornice Copings: As recommended, provided and installed by Roofing Subcontractor, to coordinate with the installation of TPO Roofing System, and as covered under the TPO Roofing System Warranty.
- 2) Through-Wall Exterior Materials Transition Flashings: As recommended, provided and installed by the Subcontractor responsible for the exterior finish material in which the flashing is installed, and as covered under the Exterior Finish Material Warranty.
- b. **Separators, Shims and Sealant Materials:** As required for a complete and watertight installation.
- 1) Roof Parapet Wall Cornice Copings: As recommended, provided and installed by the Roofing Subcontractor, as part of the TPO Roofing System Warranty, and as covered under the TPO Roofing System Warranty.
- 2) Through-Wall Exterior Materials Transition Flashings: As recommended, provided and installed by the and warranted by Subcontractor responsible for the exterior finish material in which the sealant is installed, and as covered under the Exterior Finish Material Warranty.
9. **Fasteners:** TBD
- a. **Roof Parapet Wall Cornice Copings:**
- 1) Fasteners for Aluminum Sheet: Aluminum or Series 300 stainless steel.
- 2) TBD
- b. **Through-Wall Exterior Materials Transition Flashings:**
- 1) TBD

Installation: TBD

DIVISION 07: THERMAL AND MOISTURE PROTECTION (cont.)

- F. Roof Specialties and Roof Accessories:**
5. **Summary:**
- a. **Roof-Edge Drainage Systems:** Refer to Drawings for Locations.
- 1) Gutters
- 2) Downspouts
- 3) Conductor Heads
- b. **Roof Hatches:** Refer to Drawings for Locations.
2. **Related Sections:**
- a. Division 07 Section "Sheet Metal Flashing and Trim"
- b. ~~Division 07 Section "Preformed Metal Panel Systems"~~
- c. Division 07 Section "Roof Underlayment"
3. **Performance Requirements:**
- a. **FM Approval's Listing:** Manufacture and install roof-edge drainage systems that are listed in FM Approvals "RoofNav" and approved for windstorm classification, as required by the Structural Engineer, based on the location and requirements of the project jurisdiction.
- b. **SPRI Wind Design Standard:** Manufacture and install roof-edge drainage systems tested according to SPRI ES-1 and capable of resisting the design pressures indicated on the Structural Drawings.
4. **Submittals:**
- a. **Shop Drawings:** Include plans, elevations, joint locations and keyed section details showing attachments to other work. Distinguish between plant-assembled and field- assembled work.
5. **Quality Assurance:**
- a. **Warranty:**
- 1) **Special Warranty on Painted Finishes:** Manufacturer's standard warranty, in which Manufacturer agrees to repair finish or replace roof specialties that show evidence of deterioration of factory-applied finishes within 20 or 10 years from date of Substantial Completion.
6. **Manufacturer:** Same as the Manufacturer of the Preformed Standing Seam Metal Roof.
7. **Products:**
- a. **Roof Edge Drainage Systems:**
- 1) Gutters
- 2) Downspouts
- 3) Conductor Heads
- b. **Roof Hatches:** Refer to Drawings and Tenant Work Letters for tenant-specific roof hatch products, sizes and requirements.
8. **Materials:**
- a. **Roof Edge Drainage Systems:** Steel Sheet, with Aluminum-Zinc Alloy Coating (AZ-50 Galvalume); ASTM 792-08, Grade 40, yield strength 40 ksi (min.).
- 1) **Gutters:** Manufactured in uniform section lengths not exceeding 12 feet (3.6m), with matching corner units, ends, outlet tubes and other accessories. Elevate back edge at least 1-inch (25 mm) above front edge. Furnish flat-stock gutter straps, gutter brackets, expansion joints and expansion joint covers, fabricated from the same metal as the gutters.
- a) **Steel Sheet Thickness:** .034-inch (0.86-mm)
- b) **Gutter Profile:** Box-Type, in accordance with SMACNA's "Architectural Sheet Metal Manual".
- c) **Gutter Size:** TBD, based on roof drainage calculations.
- 2) **Downspouts:** Plain Round-Type, complete with elbows. Furnish with metal hangers, from same material as the downspouts, and anchors.
- a) **Steel Sheet Thickness:** .034-inch (0.86-mm)
- b) **Downspout Size:** TBD, based on roof drainage calculations.
- 3) **Conductor Heads:**
- a) ???
- b) ???
7. **Finish:**
- a. **Roof Edge Drainage System:**
- 1) Gutters: Same as the Finish of the Preformed Standing Seam Metal Roof Finish
- 2) Downspouts:
- 3) Conductor Heads:
8. **Color:** Same as the Color of the Preformed Standing Seam Metal Roof Color where the roof-edge drainage system is attached.
9. **Installation:**
- a. **General:** Install components to produce a complete roof-edge drainage system according to Manufacturer's written instructions. Coordinate installation with installation of Preformed Standing Seam Roof System and related roof eave flashing requirements.
- b. **Roof Edge Drainage Systems:**
- 1) **Gutters:** Join and seal gutter lengths. Allow for thermal expansion. Attach gutters to firmly anchored gutter supports spaced not more than 24 inches (610 mm) apart. Attach ends with rivets and solder to make watertight. Slope to downspouts.
- 2) **Downspouts:** Join sections with Manufacturer's standard telescoping joints. Provide hangers with fasteners designed to hold downspouts securely to walls and 1 inch (25 mm) away from walls; locate fasteners at top and bottom and at approximately 60 inches (1500 mm) o.c.
- 3) **Conductor Heads:**
- c. **Roof Hatches:** Install in accordance with Manufacturer's written instructions.
- G. Roofing Underlayment:**
1. **Summary:** Self-adhering sheet membrane used as underlayment below the following:
- a. Preformed Standing Seam Metal Roof Panels
- b. Formed Aluminum Parapet Wall Cornice Copings
2. **Related Sections:**
- a. Division 06 Section "Rough Carpentry" for plywood sheathing at Parapet Wall Cornice Copings.
- b. Division 07 Section "Preformed Metal Panel Systems" for Standing Seam Metal Roof Panels.
- c. Division 07 Section "Sheet Metal Flashing and Trim" for Aluminum Parapet Wall Cornice Copings.
3. **Submittals:**
- a. **Manufacturer's Product Data**
4. **Products:**
- a. **Underlayment Material:** Cold-applied, self adhering membrane composed of a high strength polyethylene film coated on one side with a layer of rubberized asphalt adhesive and interwound with a disposable release sheet.
- b. **Basis-of-Design:** Ice & Water Shield manufactured by Grace Construction Products.
- 1) **Membrane Thickness:** 40 mil (1.02 mm)
- 2) **Color:** Gray-Black
- c. **Related Materials:**
- 1) **Primer:** Water-ased Perm-A-Barrier WB Primer by Grace Construction Products
5. **Examination:** Prior to installation, inspect existing conditions to ensure surfaces are suitable for installation of roofing underlayment. Verify flashing has been installed.
6. **Base Bid Installation:** Provide and Install below Standing Seam Metal Roof Panels at the following conditions and locations:
- a. **Gable Roofs:**
- 1) Building A - The Fresh Market
- b. **Pyramid Tower Roof:ed**
- c. **Building B - PGA Tour Superstore**
- d. **Shed-Type Roofs:**
- 1) Building B - PGA Tour Superstore
- 2) Building C - Shops Building
- d. **Mansard-Type Roof:**
- 1) Building D - Aspen Dental & Sleep Number
7. **Add Alternate Installation:** Provide and Install below Standing Seam Metal Roof Panels at the following conditions and locations:
- a. **Low Slope Canopy Roof and Canopy Soffit:**
- 1) Building D - Sleep Number Tenant Entrance Canopy

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