

*alternate 1:
technical specs*

PART 1 - GENERAL

1.01 CONTRACT CONDITIONS

- A. All other Contract Documents, including Drawings, Specifications, Project Manual and General and Supplemental Conditions of the Contract, complement the requirements of this section.
- B. Other sections of this Specification may relate to, and may impose additional work and/or additional materials upon this section. Coordinate any cross-referencing of Specification sections.

1.02 SECTION INCLUDES

- A. Administrative and procedural requirements.
- B. Adjustments to Contract Sum.
- C. Schedule of Unit Prices.

1.03 ADMINISTRATIVE AND PROCEDURAL REQUIREMENTS

- A. Unit Prices provide means to adjust Contract Sum based upon Unit Costs per Unit of Measure for each Unit Price Item.
- B. State dollar amount to establish Unit Price for each Unit Price Item in space provided on Document 00 41 13 – Bid Form.
- C. State dollar amount to cover complete work for each Unit Price Item. Include allowances, such as for measurement, labor, material, equipment, overhead and profit, and work of other Sections.
- D. Take measurements and compute quantities for Unit Price Items as Work proceeds. Maintain log for Owner review. When requested by Owner, provide equipment, and personnel necessary to assist in field verification of measurements and quantities.
- E. Adjust Contract Sum by Change Order for Unit Prices in accordance to provision of Contract Documents.

1.04 UNIT PRICE ADJUSTMENTS TO CONTRACT SUM

- A. Submit complete quantity breakdown made on basis of actual measurement and quantity, accepted by Owner and Architect, multiplied by Unit Price in Unit of Measure stated by Bidder on Bid Proposal Form.
- B. Owner reserves right to reject Contractor's measurement of work-in-place that involves use of an established Unit Price and to have this work verified by an independent surveyor, acceptable to the Contractor.
- C. Adjustment to Contract Sum will be determined by Unit Price Item of work actually incorporated into or deleted from Estimated Quantity of work, as established and verified by Owner.

1.05 UNIT PRICE SCHEDULE

- A. Unit Price Alternate No. 1
 - 1. State the liquidated damage rate per calendar day that the Contractor will require Owner to

pay in the event of a non-excusable increase in the Contract Time under Article 8 of the General Conditions.

PART 2 - PRODUCTS

Not Used

PART 3 - EXECUTION

Not Used

END OF SECTION

PART 1 – GENERAL

1.01 CONTRACT CONDITIONS

- A. All other Contract Documents, including Drawings, Specifications, Project Manual and General and Supplemental Conditions of the Contract, complement the requirements of this section.
- B. Other sections of this specification may relate to and may impose additional work and/or additional materials upon this section. Coordinate any cross-referencing of Specification sections.

1.02 DESCRIPTION OF WORK

- A. Provide all labor, material, equipment, transportation and services to provide framing and sheathing as shown on the drawings and herein specified.

1.03 SECTION INCLUDES

- A. Structural wall and roof framing.
- B. Built-up structural beams and columns.
- C. Wall and roof sheathing.
- D. Tongue and groove decking
- E. Wood backing and curbing.
- F. Wood and metal furring.
- G. Hardware, weather-resistive barrier, vapor retarder, self-adhering sheet flashing, sill separator, and other accessories.
- H. Attic access doors.
- I. Interior finish materials.

1.04 REFERENCES

- A. ALSC - American Lumber Standards Committee: Softwood Lumber Standards.
- B. ANSI A135.4 - Basic Hardwood.
- C. ANSI A208.1 - Mat Formed Wood Particleboard.
- D. APA - American Plywood Association.
- E. FS - TT-W-571 - Wood Preservation: Treating Practices.
- F. NFPA - National Forest Products Association.
- G. WCLIB - West Coast Lumber Inspection Bureau: Standard Grading Rules for West Coast Lumber.

H. WWPA - Western Wood Products Association.

1.05 QUALITY ASSURANCE

- A. Lumber Grading Agency: Certified by ALSC.
- B. Plywood Grading Agency: Certified by APA.
- C. Evidence of Grade: Stamp each piece of lumber and plywood with grademark and trademark of Association having jurisdiction, except exposed to view lumber.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Store wood materials minimum 6 inches above ground on framework or blacking away from dirt and moisture, well ventilated, and covered with waterproof covering.
- B. Store lumber materials to maintain certified moisture content.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Where Structural Notes conflict with provisions of this Section, assume more stringent requirements and verify Architect.

2.02 LUMBER MATERIALS

- A. Lumber Grading Rules: WWPA or WCLIB.
- B. Structural Lumber and Timber: Comply with Structural Notes and Drawings for Species, Grades, allowable moisture content, and other requirements for wood framed construction, and components subject to structural loading. Comply with APA recommendations and WSBC. Where in conflict with specified products comply with more stringent requirements and verify with Architect.
- C. Non-Structural Framing Lumber: Include wood framed construction and components not subject to structural loading as defined by Structural Notes and Drawings.
 - 1. Species: Douglas Fir-Larch, or Hem-Fir.
 - 2. Grade: WWPA or WCLIB, No. 2.
 - 3. Condition of Seasoning (Moisture Content): 19%.
 - 4. Nominal 2-inch Thickness: S-DRY (19% maximum moisture content).
 - 5. Nominal 4-inch Thickness or Greater: S-GRN. Air dry to 19% maximum moisture content prior to use.

2.03 WOOD PANEL AND ENGINEERED WOOD PRODUCTS

- A. Stamp APA Grade Stamps on each panel. Comply with PS1 and PS2 for cross laminated veneer panels.
 - 1. APA A-A Group 1, Exposure 1: Where face exposed both sides.
 - 2. APA PS1, A-D Group 1, Exposure 1: Face exposed one side.
 - 3. APA PS1, C-D Plugged Group 2, Exposure 1: Face unexposed.
- B. Roof Sheathing: Plywood, APA C-D Grade, unexposed; APA A-D Grade at exposed eaves. Comply with Structural Notes and Structural Drawings.
 - 1. Edge and End Joints: Tongue and groove (T&G), except square cut butt joints accepted

- with panel edge clips or solid backing to prevent differential movement of adjacent edges between support, in accordance with APA recommendations.
2. Thickness: As indicated by Structural Notes and Architectural Drawings. APA SPAN RATING not less than 40/20.
- C. Wall Sheathing: Plywood APA C-D Grade Sheathing, 15/32 inches thick, except where otherwise shown on Drawings or otherwise indicated by Structural Notes.
1. Joints: Square edge with 1/8 inch spacing, except where otherwise indicated on Structural Drawings.
 2. Thickness: As indicated on Structural Drawings.
 3. APA SPAN RATING: Not less than 24/0.
 4. Sheathing at electrical panels/rooms: 5/8" CDX Fire Retardant Treated plywood.
- D. Structural Engineered Lumber: Trus Joist Products by Weyerhaeuser.
1. Microlam LVL, meeting ICC-ES code evaluation ESR-1387.
 - a. Grade: 2.0E.
 2. Parallam PSL, meeting ICC-ES code evaluation ESR-1387.
 - a. Grade: 2.0E.
- E. Glue Laminated Structural Units: As specified Section 06 18 00.
- F. Tongue-and-Groove Wood Decking: As specified Section 06 15 16.

2.04 ACCESSORIES

- A. Fasteners: Hot dipped galvanized steel, conforming to ASTM A153, for exterior, high humidity and preservative treated wood locations. Electro-plated galvanized finish elsewhere; size and type to suit condition and as indicated in Structural Notes.
- B. Connectors: Simpson Strong Tie Co. or approved. Hot dipped galvanized conforming to ASTM A153 at exterior and preservative treated wood locations.
1. "Z-Max" galvanizing acceptable where available for specified connectors.
- C. Joist Hangers: Simpson Strong Tie Co., Hot dipped galvanized steel conforming to ASTM A153, sized to suit joists and framing conditions.
1. "Z-Max" galvanizing acceptable where available for specified connectors.
- D. Anchors: See Structural Notes. All anchors hot dipped galvanized conforming with ASTM A153 unless embedded in concrete. Concrete anchors stainless steel.
- E. Weather-resistive Barrier: As specified Section 07 25 00.
- F. Vapor Retarder: As specified Section 07 21 16.
- H. Self-Adhering Sheet Flashing: As specified Section 07 65 26.
- I. Sill Sealer: Owens Corning, ProPink ComfortSeal.
1. All exterior wall sill plates.
 2. Width to match sill plate.

2.05 BLOCKING AND BACKING

- A. Install 2x wood blocking:
 - 1. In concealed spaces of stud walls and partitions, including furred spaces at the ceiling level and at 10-foot-high intervals along the length of the wall.
 - 2. At all interconnections between concealed vertical and horizontal spaces such as occur at soffits and drop ceilings.
 - 3. For support of doorstops mounted in GWB walls.
 - 4. For support of wall mounted cabinetry and shelving.
 - 5. For support of miscellaneous steel items mounted on walls.
 - 6. For support of toilet room partitions, grab bars, and accessories.
 - 7. For continuous backing at electrical and communication panels.
 - 8. For support of miscellaneous items including display monitor brackets.
 - 9. For support of visual display surfaces as specified Section 10 11 00

2.06 WOOD TREATMENT

- A. Wood Preservative (Pressure Treatment): See Section 06 05 73.33.

2.07 INTERIOR FINISH MATERIALS

- A. Decorative wood planks, wall tops and windowsills: As specified Section 06 20 19.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify conditions ready to receive work of this Section. Do no work until unsatisfactory conditions are corrected. Beginning work constitutes acceptance of existing conditions.

3.02 INSTALLATION

- A. Comply with APA Design/Construction Guides, WSBC requirements, and Structural Notes. Where in conflict, assume more stringent requirements and verify with Architect before beginning work.

3.03 FRAMING

- A. Lay out, cut, fit, and install rough carpentry construction. Set level, plumb, aligned, and in correct position.
- B. Temporary Bracing: Make provisions for erection loads, sufficient to maintain structure safe, plumb, and in true alignment until completion of erection and installation of permanent bracing and framing.
- C. Horizontal Members: Place crown side up.
- D. Header and Trimmers: Double members around openings in vertical and horizontal framing.
- E. Double Joist Headers: Construct floor and ceiling openings and under stud walls that are parallel to floor joists. Frame headers rigidly into joists.
- F. Load Bearing Members: Install full length without splices.
- G. Joists and Beam Bearings: Provide full and proper bearings. Install joist hangers where shown or required.

- H. Bridging and Blocking: Install at joists and frame in excess of 8 feet. Fit solid blocking at ends of members.
- I. Plates, Caps, Ledgers, and End Studs: Anchor to other construction with anchors spaced 4' – 0" on centers, and at least two anchors in each piece, unless otherwise indicated:
 - 1. Concrete: 5/8-inch bolts, unless indicated otherwise.
- J. Cants, Curbs, and Nailers: Preservative treated, dimensions as indicated or required.
- K. Firestops Construct 2-inch stock firestops at ceiling line. Construct at mid-height between studs, where partition height exceeds 8 foot. Do not exceed 10 foot on center vertical spacing.
- L. Dressed Wood Grounds: Set for securing wood trim, base, and millwork. Install to be secure, rigid, straight, true, and aligned.
- M. Shims: Do not use shims for leveling on wood or metal bearings; cut and fit members accurately.

3.04 SHEATHING

- A. Secure roof sheathing perpendicular to framing members with ends staggered. Secure sheet edges over firm bearing.
- B. Secure wall sheathing to wall studs, with ends staggered, over solid bearing.
- C. Install with panel ends over firm bearing. Secure T&G edges at side laps. Attach square cut edges at sides with panel edge clips or solid blocking in accordance with APA.
 - 1. Minimum 1 panel edge clip midway between supports under 48-inch span.
 - 2. Minimum two panel edge clips spaced equal distant between supports at spans at 48 inch and over.
- D. Maintain 1/8-inch space at end and edge joints.
- E. Nail to solid structural framing. Space maximum 6 inches on center at panel edges, 12 inch on center at panel field, and in compliance with IBC requirements. Include additional nailing as necessary to set securely in place in accordance with Structural Notes and Drawings.

3.05 PANEL BOARDS

- A. Provide panel boards and backings for support of Mechanical and Electrical work. Use fire retardant treated 5/8" CDX plywood specified in Section 06 05 73.13. Oversize panel boards 12 inches beyond mounting requirements.

3.06 ATTIC ACCESS DOORS

- A. 3/4-inch CC plugged exterior glue plywood, size as indicated.
- B. Provide blocking and accessories required for complete self-closing assembly.
- C. Provide following hardware for doors:
 - 1. Spring Hinges: Hager #1750, minimum 2 each per door.
 - 2. Door Pull: Hager 305D.

3.07 WEATHER-RESISTIVE BARRIER

- A. Install two layers of specified weather-resistive barrier over exterior sheathing in conformance with provisions Section 07 25 00.

3.08 SILL SEALER GASKET

- A. Install continuously under all exterior wall sills. Coordinate with building envelope and air barrier sealing requirements.

3.09 SELF ADHERING SHEET FLASHING

- A. Comply with manufacturer's instructions to make waterproof and install in conformance.
- B. Install with provisions Section 07 65 26 over sheathing at roof deck, wall penetrations and flashings such as at doors, windows and other openings.

3.10 TOLERANCES

- A. Framing Members: 1/4 inch maximum from true position.
- B. Surface Flatness of Floor: 1/4 inch in 10 feet.

3.11 MINIMUM CONNECTIONS

- A. Connections for framing and sheathing except as noted on Structural Drawings.

Connections	Nailing
1. Joist to sill or plate	Toenail 3 - 8d
2. Blocking to plate	2 - 16 or 4 - 8d
3. Blocking to joists each side	2 - 16 or 4 - 8d
4. Sole plate to joist or block	Face nail 16d @ 16" o.c.
5. Top plate to stud	End nail 3 - 16d
6. Stud to, sole plate	3 - 8d
7. Double studs, face nail each joist	16d 24"o.c. or bolt, 1/2" M.B.@ 24" o.c.
8. Doubled staggered top plates and double joists	Face nail 16d 16" o.c.
9. Top plates, laps and intersections	Face nail 2 - 16d
10. Continuous header - two pieces	16d 16"o.c. along each edge
11. Continuous header to stud	Toenail 4 - 8d
12. Roof joists - laps over partitions	Face nail 3 - 16d
13. Built up corner studs	16d @ 16"o.c.
14. Built up girder beams	20d 32 o.c. @ top and bottom and staggered 2 - 20d @ ends and @ each splice

END OF SECTION

PART 1 – GENERAL

1.01 CONTRACT CONDITIONS

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1.02 DESCRIPTION OF WORK

- A. Provide all labor, material, equipment, transportation and services to provide wall and roof sheathing as shown on the drawings and herein specified.

1.03 SECTION INCLUDES

- A. Wall and roof sheathing for wood framing.

1.04 REFERENCES

- A. APA - American Plywood Association.

1.05 QUALITY ASSURANCE

- A. Plywood Grading Agency: Certified by APA.
- B. Evidence of Grade: Stamp each piece of plywood with grademark and trademark of Association having jurisdiction, except exposed to view lumber.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Store wood materials minimum 6 inches above ground on framework or blacking away from dirt and moisture, well ventilated, and covered with waterproof covering.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Where Structural Notes conflict with provisions of this Section, assume more stringent requirements and verify with Architect.

2.02 MATERIALS

- A. Stamp APA Grade Stamps on each panel. Comply with PS1 and PS2 for cross laminated veneer panel.
 - 1. APA PS1, A-D Group 1, Exposure 1: Face exposed one side.
 - 2. APA PS1, C-D Plugged Group 2, Exposure 1: Face unexposed.
- B. Roof Sheathing: Plywood, APA C-D Grade, 3/4 inches thick, unexposed; APA Exterior A-D Grade at exposed eaves. Comply with Structural Notes and Structural Drawings.
 - 1. Edge and End Joints: Tongue and groove (T&G), except square cut butt joints accepted

- with panel edge clips or solid backing to prevent differential movement of adjacent edges between support, in accordance with APA recommendations.
2. Thickness: As indicated by Structural Notes. APA SPAN RATING not less than 48/24.
- C. Wall Sheathing: Plywood or oriented strand board (OSB, as accepted by Structural Notes) APA C-D Grade Sheathing, 15/32 inches thick, except where otherwise shown on Drawings or otherwise indicated by Structural Notes.
1. Joints: Square edge with 1/8-inch spacing, except where otherwise indicated on Structural Drawings.
 2. Thickness: As indicated on Structural Drawings.
 3. APA SPAN RATING: Not less than 24/0.
- D. Accessories:
1. Edge Clips: Acceptable to provide spacing between sheathing panels.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify conditions ready to receive work of this Section. Do no work until unsatisfactory conditions are corrected. Beginning work constitutes acceptance of existing conditions.

3.02 INSTALLATION

- A. Comply with APA Design/Construction Guides and Structural Drawings. Where in conflict, assume more stringent requirements and verify with Architect before beginning work.
- B. Secure roof sheathing perpendicular to framing members with ends staggered. Secure sheet edges over firm bearing.
- C. Secure wall sheathing to wall studs, with ends staggered, over solid bearing.
- D. Install with panel ends over firm bearing. Secure T&G edges at side laps. Attach square cut edges at sides with panel edge clips or solid blocking in accordance with APA.
1. Minimum 1 panel edge clip midway between supports under 48-inch span.
 2. Minimum two panel edge clips spaced equal distant between supports at spans at 48 inch and over.
- E. Maintain 1/8-inch space at end and edge joints.
- F. Nail to solid structural framing. Space maximum 6 inch on center at panel edges, 12 inches on center at panel field, and in compliance with WSBC requirements. Include additional nailing as necessary to set securely in place in accordance with Structural Notes and Drawings.
1. Install nail heads flush with sheathing surface.

3.05 PANEL BOARDS

- A. Provide panel boards and backings for support of Mechanical and Electrical work. Use noncombustible plywood for Electrical panel boards. Oversize panel boards 12 inches beyond mounting requirements.

END OF SECTION

PART 1 - GENERAL

1.01 CONTRACT CONDITIONS

- A. All other Contract Documents, including Drawings, Specifications, Project Manual and General and Supplemental Conditions of the Contract, complement the requirements of this section.
- B. Other sections of this specification may relate to and may impose additional work and/or additional materials upon this section. Coordinate any cross-referencing of Specification sections.

1.02 DESCRIPTION OF WORK

- A. Provide all labor, material, equipment, transportation and services for exterior finish carpentry as shown on the Drawings and herein specified.

1.03 SECTION INCLUDES

- A. Finish carpentry for trim lumber.
- B. Finish carpentry provisions.
- C. Preservative-treated wood furring at exterior siding.

1.04 REFERENCES

- A. West Coast Lumber Inspection Bureau (WCLIB): WCLIB No. 16 – Standard Grading Rules for West Coast Lumber, Latest Edition.
- B. Western Wood Products Association (WWPA): WWPA - Standard Grading Rules for Western Lumber, Latest Edition.
- C. Architectural Woodwork Institute (AWI): Architectural Woodwork Standards, Latest Edition.

1.05 SUBMITTALS

- A. Samples:
 - 1. Wood: 6-inch-long illustrating species, grade, and finish.

1.06 QUALIFICATIONS

- A. Installer: Company and employees specializing in work of this Section with minimum 5 years documented experience.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Store materials in ventilated, interior locations. Protect from excessive humidity. Maintain relative humidity between 25% to 55% before, during, and after installation.
- B. Cover to protect against dirt and dust.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Wood Trim: WWPA, Grade A, Western Red Cedar boards with flush butt edges, rough side exposed.
- B. Preservative-treated wood furring: minimum 1/2" thick by 4" wide sawn lumber.

2.02 ACCESSORIES

- A. Wood Trim Attachments: minimum 6d shank stainless steel nail, length as required for 1 inch stud penetration.
 - 1. Stainless Steel or Aluminum Ring shank at trim over sheathing.
 - 2. Spacing: Maximum 12 inch on center at horizontal trim and maximum 36 inch on center at vertical trim.
- B. Sheet Metal Flashing and Trim: As specified Section 07 62 00.
- C. Self-Adhering Sheet Flashings: As specified Section 07 65 26.
- D. Fiber-Cement Plank Siding and Panels: As specified Section 07 46 46
- E. Weather-Resistive Barriers: As specified Section 07 25 00.
- F. Sealants: Paintable, for porous wood surfaces as specified Section 07 92 00.

2.03 FABRICATION

- A. Use concealed fastenings wherever possible and at all window frames and stops.
- B. Kerf backs of wood members more than 5 inch wide, or more than 3/4 inch thick.
- C. Joints: Make tight and form to conceal or reduce exposed shrinkage. Scarf all joints where boards are continuous. Miter all corners.

2.04 FINISHES

- A. Ready for paint finishes specified Section 09 91 13.
- B. Back prime all wood including cuts.
 - 1. Two coats minimum.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify installation conditions as satisfactory to receive work of this Section. Do not install until unsatisfactory conditions are corrected. Beginning work constitutes acceptance of conditions as satisfactory.

3.02 PREPARATION

- A. Field Measurements: Take dimensions necessary prior to fabrication and installation.
- B. Protect surrounding areas or surfaces to preclude damage during installation.

- C. Install all weather-resistive barrier, self-adhering sheet flashing, prefinished sheet metal and all other components required for the building's weather enclosure prior to installation of exterior finish carpentry except where indicated in the Drawings.

3.03 INSTALLATION

- A. Space fasteners at equal intervals at spacing to fasten permanently and securely in place, except not less than one fastener at each end and at center of each piece.
- B. Install details with tight joints. Miter casings and moldings except where indicated otherwise. Scarf cut butt splices at 30-degree angles.
- C. Make members and lines level, plumb, and square to line with adjacent construction.
- D. Select and cut material to exclude damaged, marked, or defective areas.
- E. Eased Edges: Ease exposed edges of finish work 1/8 inch minimum radius whether indicated or not.
- F. Align new material with adjacent existing material.

3.04 CLEANING

- A. Leave work clean, premises free of residue of work of this Section ready for work of Section 09 91 13.

3.05 PROTECTION

- A. During construction protect existing finishes and surfaces from damage.

END OF SECTION

PART 1 - GENERAL

1.01 CONTRACT CONDITIONS

- A. All other Contract Documents, including Drawings, Specifications, Project Manual and General and Supplemental Conditions of the Contract, complement the requirements of this section.
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1.02 DESCRIPTION OF WORK

- A. Provide all labor, material, equipment, transportation and services to provide water-resistive barriers as shown on the drawings and herein specified.

1.03 SECTION INCLUDES

- A. Asphalt saturated kraft building paper for installation over exterior sheathing.

1.04 REFERENCES

- A. Reference Standards: Current edition at date of Bid. See 01 42 19 for full name and address of acronym.
 - 1. ASTM D779 – Standard Test Method for Water Resistance of Paper, Paperboard and Other Sheet Materials by the Dry Indicator Test Method.
 - 2. ASTM D828 – Tensile Properties of Paper and Paperboard Using Constant-Rate-of-Elongation Apparatus.
 - 3. ASTM E96 – Water Vapor Transmission of Materials.

1.05 SUBMITTALS

- A. Manufacturer's product data sheet and product sample.
- B. Manufacturer's Installation Instructions: Indicate special procedures and conditions requiring special attention.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver all materials in manufacturers' unopened packages and store all materials under cover.
- B. Do not double stack palletized material.
- C. Protect from damage from sunlight, weather, excessive temperatures, and construction operations.

1.07 MOCK-UP

- A. NOT REQUIRED
- B.

1.08 QUALITY ASSURANCE

- A. Installer: Specialist in weather-resistive barrier installation, able to demonstrate minimum 10 years installing water-resistive barriers for commercial projects.
- B. Installation: Perform work of Section 07 25 00 and 07 65 26 by or under direct supervision of single installer.

1.09 WARRANTY

- A. Contractor: provide 5-year warranty for watertight installation of materials.
- B. Manufacturer: Provide standard FortiShield® 10-year labor and materials warranty against material defects and improper material performance.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Weather-resistive Barrier: Fortifiber Two-Ply Super Jumbo Tex® 60 Minute, weather-resistive barrier.
 - 1. Water Vapor Transmission: 67 grams, minimum, when tested ASTM E96.
 - 2. Water Resistance: Greater than 60 minutes when tested ASTM D779.
 - 3. Tensile Strength: MD of 160 lb^f/inch and CD of 110 lb^f/inch when tested ASTM D828.
- B. Self-Adhering Membrane: As specified Section 07 65 26.
- C. Sealing Tape: Fortifiber® Sheathing Tape.
- D. Fasteners: Stainless steel screws properly sized to penetrate a minimum of 1 inch through exterior sheathing and into stud backup framing.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify ready to receive work of this Section. Do no work until unsatisfactory conditions are corrected. Beginning work constitutes acceptance of existing conditions.
- B. Verify related work, including flashings and self-adhering membranes, is installed to avoid cutting and patching.

3.02 PREPARATION

- A. Install the membrane directly on clean, dry, continuous wall sheathing.
- B. Remove dust, dirt, loose fasteners and protrusions.
- C. Repair voids and damage in sheathing prior to installing membrane.
- D. Ensure that membrane is fully supported with sheathing backup.
- E. Ensure that sheathing joints are fully taped and tape is fully adhered without gaps, tears, punctures, or folds.

3.03 INSTALLATION

- A. Install in accordance with manufacturer's printed application procedures, precautions, and limitations.
- B. Cover installed weather-resistive barriers as soon as possible. Remove weather-resistive barriers that have prolonged exposure to ultraviolet radiation and replace.
- C. Install weather-resistive barriers beginning at the bottom and working upward with the upper layer lapping over the lower layer in a shingle-like fashion.
- D. Apply two layers of weather-resistive barriers in all areas unless otherwise indicated in the Drawings. Lay smooth without folds or bunches of material. Stagger layers
- E. Fasten weather-resistive barriers using specified fasteners at every stud location. Fasten vertically at 6 inches on center.
- E. Lap vertical and horizontal joints a minimum of 6 inches.
 - 1. Pull tightly around corners.
- F. At openings, integrate weather-resistive barriers into self-adhering sheet flashing systems as indicated in the Drawings, as recommended by weather-resistive barrier Manufacturer.
- G. Repair tears, holes and gaps with sealing tape.
- H. Seal weather-resistive barrier penetrations by items that pass through the barrier using Manufacturer's recommended procedures and specified sealing tape.
- I. Seal all weather-resistive barrier terminations at top and bottom of walls and at adjacent material changes.

3.04 INSPECTION

- A. At the completion of installation of the weather-resistive barriers in areas scheduled to receive final finishes, thoroughly inspect the water-resistive barrier.
 - 1. Tape tears and perforations.
 - 2. Replace damaged barrier where directed by Architect.

3.05 PROTECTION

- A. Protect installed weather-resistive barriers until application of exterior finish system.

END OF SECTION

PART 1 – GENERAL

1.1 SECTION INCLUDES

- A. Fiber Cement Plank Lap Siding.
- B. Trim, Fascia, Molding, and Accessories.

1.2 RELATED REQUIREMENTS

- A. Section 06 10 00 – Rough Carpentry.
- B. Section 07 21 00 – Thermal Insulation.
- C. Section 07 25 00 – Weather Barriers.
- D. Section 07 92 00 – Joint Sealants.
- E. Section 09 21 16 – Gypsum Board Assemblies.
- F. Section 09 91 13 – Exterior Painting.

1.3 REFERENCE STANDARDS

- A. ASTM C1185, Standard Test Methods for Sampling and Testing Fiber-Cement Flat Sheet, Roofing and siding Shingles, and Clapboards; 2023.
- B. ASTM C1186, Standard Specification for Flat Fiber-Cement Sheets; 2022, with 2023 Editorial Revision.
- C. ASTM D3359, Standard Test Methods for Rating Adhesion by Tape Test; 2023.
- D. ASTM E84, Standard Test Method for Surface Burning Characteristics of Building Materials; 2020.
- E. ASTM E119, Standard Test Methods for Fire Tests of Building Construction and Materials; 2024.
- F. ASTM E136, Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750 Degrees C; 2022.
- G. ASTM E330/E330M, Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference; 2021.
- H. ICC-ES Evaluation Reports ESR-2290 and ESR-2273 (IBC, IRC, CBC, CRC); Current Editions.

1.4 ADMINISTRATIVE REQUIREMENTS

- A. Pre-Installation Conference:
 - a. A minimum of 2-weeks prior to the commencement of the Work of this section, conduct a preliminary pre-installation conference at project site.
 - b. Meet with Owner, Architect, and Installer, and Subcontractors completing related work.
 - c. Review the Following:
 - i. Methods and procedures to complete the Work.
 - ii. Substrate and installation requirements.
 - iii. Temporary protection requirements.
 - iv. Repair procedures.
 - v. Schedule.
 - vi. Other pertinent topics.
 - d. Provide record of discussion with meeting minutes distributed to all attendees.

1.5 SUBMITTALS

- A. Product Data:

- a. Manufacturer's product data sheets.
- b. Manufacturer's storage and handling requirements.
- c. Manufacturer's preparation instructions.
- d. Manufacturer's installation instructions.
- e. Manufacturer's operation and maintenance instructions.
- B. Shop Drawings:
 - a. Provide detailed drawings showing dimensions, layout, joints, construction details, and attachments.
 - b. Indicate atypical non-standard applications outside of manufacturer's standard details and specifications.
- C. Selection Samples:
 - a. Provide two complete sets of color chips representing manufacturer's full range of available colors and patterns for each finish product specified.
- D. Verification Samples:
 - a. Provide two samples, minimum 4-inch x 6-inch (100 mm x 150 mm) representing selected product, color, texture, and patterns for each finish product specified.
- E. Installers qualification statement.
- F. Warranty:
 - a. Manufacturer's sample warranty.
 - b. Manufacturer's executed written warranty, completed in Owner's name and registered with manufacturer.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Company specializing in work specified in this section with a minimum of 10 years of experience with installation of products of this type.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store products in manufacturer's unopened packaging with labels intact until ready for installation.
- B. Store siding flat on a smooth level surface and carry on its side.
- C. Protect edges and corners from chipping.
- D. Store materials under dry, waterproof, well-ventilated cover, elevated above grade, and kept dry prior to installation.
- E. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of the Authorities Having Jurisdiction.
- F. Protect materials from damage, dust, or other detrimental conditions.

1.8 FIELD CONDITIONS

- A. Maintain environmental conditions including temperature, humidity, and ventilation in accordance with the limits indicated in the manufacturer's written instructions.
- B. Do not install products in conditions outside of the manufacturer's stated limits.

1.9 WARRANTY

- A. Manufacturer's Limited, Non Pro-rated Product Warranty:
 - a. Plank, Soffit, and Trim: 30-year Warranty.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design: James Hardie Building Products, Inc.; Hardie Plank Lap Siding.
- B. Substitutions: In accordance with the requirements of Division 01, General Requirements.

2.2 FIBER CEMENT – LAP SIDING

- A. Fiber Cement Lap Siding:
 - a. Type A, Grade II, ASTM C1186.
 - b. Non-combustible Material, ASTM E136.
 - c. Flame Spread Index: 0, ASTM E84.
 - d. Smoke Developed Index: <5, ASTM E84.
- B. Type:
 - a. Match Existing
- C. Color:
 - a. Match Existing
- D. Product:
 - a. Basis-of-Design: HardiePlank;
 - b. Substitutions: In accordance with the requirements of Division 01, General Requirements.

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. Examine substrate, clean and repair to eliminate conditions detrimental to installation.
- C. Do not commence with the Work until unacceptable conditions are remedied.
- D. Verify that weather barrier is installed over substrate and ready to receive the Work.
- E. If framing preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation prior to commencement of Work.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using methods recommended by manufacturer's written requirements.
- C. Protect surrounding work areas and surface during installation.
- D. Repair punctures or tears in weather barrier prior to installation of siding.

3.3 WEATHER BARRIER

- A. See Section 07 25 00, Weather Barriers.
- B. Ensure weather barrier is installed with penetration and junction flashing in accordance with manufacturer's written requirements and the Authorities Having Jurisdiction.

3.5 INSTALLATION – LAP SIDING

- A. Install in strict accordance with manufacturer's written installation instructions at locations shown on Drawings.
- B. General:
 - a. Protect siding from Work of other trades.

- b. Surfaces to be dry prior to installation of weather barriers and siding.
- c. Reference trim details on Drawings.
- d. Touch-up cut edges prior to installation.
- C. Flashing:
 - a. Install above vent trim and casings.

3.6 INSTALLATION OF TRIM BOARDS

- A. Install in strict accordance with manufacturer's written installation instructions at locations shown on Drawings.
- B. Install flashing around vent openings.

3.7 FINISHING

- A. Match existing

3.8 CLEANING

- A. Clean siding in accordance with manufacturer's written instructions using materials and methods acceptable to manufacturer.

3.9 PROTECTION

- A. Protect installed products until date of Substantial Completion.
- B. Touch-up, repair or replace damaged areas prior to date of Substantial Completion.

END OF SECTION

PART 1 – GENERAL

1.01 CONTRACT CONDITIONS

- A. Other Contract Documents complement the requirements for this section.
- B. Other sections of this Specification may relate and may impose additional work and/or additional materials upon this section. Coordinate any cross-referencing of Specification sections.

1.02 DESCRIPTION OF WORK

- A. Provide all labor, material, equipment, transportation and services to provide flashing and sheet metal as shown on the drawings and herein specified.

1.03 SECTION INCLUDES

- A. Sheet steel and coil.
- B. Miscellaneous flashings and copings.

1.04 REFERENCES

- A. American Society of testing and Materials (ASTM):
 - 1. ASTM A 792 – Specification for Steel Sheet, Aluminum-Zinc Alloy Coated by the Hot-Dip Process, General Requirements.
 - 2.
- B. Sheet Metal and Air Conditioning National Association (SMACNA) – Architectural Sheet Metal Manual.

1.05 SUBMITTALS

- A. Shop Drawings: Describe general construction, configurations, material profile, jointing pattern, jointing details, fastening methods, and installation details.
 - 1. Drawings to be customized based on field measurements and coordinated with work of other Sections.
 - 2. Use of Architect's drawings no accepted.

1.06 QUALIFICATIONS

- A. Fabricator and Installer: Company specializing in work of this section, with minimum 5 years documented experience installing commercial quality work.

1.07 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Deliver, store, and handle to protect from twisting, soiling, scratching and other damage.
- B. Do not expose panels and flashings with strippable protective film to direct sunlight.

1.09 COORDINATION

- A. Comply with Sections 01 31 13 for coordination with work of other Sections.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Steel Sheet and Coil: 22-gauge ASTM A 446 Grade C, 43,500 psi minimum yield strength Coating Designation AZ50 hot dipped 55% aluminum-zinc alloy coating both sides.
- B. Concealed Sheetmetal Fasteners: No. 14, pancake head, self drilling, self tapping, non-corrosive fasteners, and as instructed by manufacturer.
- C. Miscellaneous: Incidental and accessory materials, methods, tools and equipment to complete work of this Section.
- D. Sealant: As specified Section 07 92 00.

2.02 FABRICATION

- A. General: Conform to SMACNA design and installation provisions and provision of Contract Documents. Where details are omitted or are in conflict, assume more stringent requirements and verify with Architect before beginning work.
 - 1. Form sections true to shape, accurate in size, square, and free from distortion or defects.
 - 2. Fabricate cleats and starter strips same material as sheet, in widths required by SMACNA, interlockable with sheet.
 - 3. Form pieces in single, continuous, custom-sized lengths. Do not splice flashings.
 - 4. Hem exposed edges on underside 1/2 inch, miter and seam corners.
 - 5. Fabricate vertical faces with bottom edge formed outward 1/4 inch and hemmed to form drip.

2.03 FINISHES

- A. Zinc-Aluminum Alloy Coated Sheet Steel: Manufacturer's standard PVDF coating system.
 - 1. Color: As selected by Owner from Manufacturer's standard palette.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify Conditions ready to receive work of this Section. Do no work until unsatisfactory conditions are corrected. Beginning work constitutes acceptance of existing conditions.

3.02 PREPARATION

- A. Field measure site conditions prior to fabricating work.
- B. Install edge strips and cleats before starting flashing installation.
- C. Coordinate installation of self-adhering sheet flashing as specified Section 07 65 26 with work of this Section.

3.03 INSTALLATION

- A. Install in accordance with SMACNA and provisions of Contract Documents. Where in conflict, or where more than one method is shown by SMACNA and not indicated by Contract Documents, assume more stringent requirements and verify with Architect before beginning work.
 - 1. Provide watertight installations.
- B. Use concealed fasteners, except as specifically indicated or accepted by Architect.

- C. Install joint sealants and backers as required to make weathertight in accordance with Section 07 92 00.

3.03 ADJUSTING

- A. Make adjustments to make installations plumb and true to line.
- B. Repair installations as required to make watertight.
- C. Touch up finishes to match adjacent surfaces where scratched or marred.

3.04 CLEANING

- A. Leave installation clean, free from residue and debris from work of this Section.

END OF SECTION

PART 1 - GENERAL

1.01 CONTRACT CONDITIONS

- A. All other Contract Documents, including Drawings, Specifications, Project Manual and General and Supplemental Conditions of the Contract, complement the requirements of this section.
- B. Other sections of this Specification may relate to and may impose additional work and/or additional materials upon this section. Coordinate any cross-referencing of Specification sections.

1.02 DESCRIPTION OF WORK

- A. Provide all labor, material, equipment, transportation and services to provide self-adhering sheet flashing as shown on the drawings and herein specified.

1.03 SECTION INCLUDES

- A. Self-adhering sheet flashing for exterior framing flashing and opening flashing.
- B. Refer to Section 07 31 13 for self-adhered flashing as a part of the shingle roofing system.

1.04 REFERENCES

- A. Reference Standards: Current edition at date of Bid. See 01 42 19 for full name and address of acronym.
 - 1. ASTM D412 – Standard Test Methods for Rubber Properties in Tension.
 - 2. ASTM D903 – Standard Test Methods for Peel or Stripping Strength of Adhesive Bonds.
 - 3. ASTM D3767 – Standard Practice for Rubber – Measurement of Dimensions.
 - 4. ASTM E96 – Standard Test Methods for Water Vapor Transmission of Materials.
 - 5. ASTM E 2112 – Standard Practice for Installation of Exterior Windows, Doors and Skylights

1.05 SUBMITTALS

- A. Samples: Provide (3) 6" x 6" samples of the flashing material.

1.06 MOCKUP

Not Required

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Deliver all materials in manufacturers' unopened packages and store all materials under cover.
- B. Do not double stack palletized material.
- C. Protect from damage from sunlight, weather, excessive temperatures, and construction operations.

1.08 WARRANTY

- A. Contractor: provide 2-year warranty for watertight installation of materials.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Wood Framing Self-Adhering Flashing: By Manufacturer of Weather-Resistive Barrier system specified Section 07 25 00.
 - 1. Compatible with Weather-Resistive Barrier system for full adhesion requirements.
 - 2. Fortifiber FortiFlash 40 mil self-adhered flashing membrane.

- B. Window and Door Opening Self-Adhering Flashing: By Manufacturer of Weather-Resistive Barrier system specified Section 07 25 00.
 - 1. Compatible with Weather-Resistive Barrier system for full adhesion requirements.
 - 2. Fortifiber FortiFlash 40 mil self-adhered flashing membrane.

- C. Roofing Self-Adhered Flashing: WR Grace & Co., Grace Ice & Water Sheild®
 - 1. ASTM D3767 Method A: 1.02 mm (40 mil).
 - 2. ASTM D412 (Die C Modified): 1720 kN/m² (250 psi).
 - 3. ASTM D412 (Die C Modified): 250%.
 - 4. ASTM D1970: Unaffected at -29° C (-20° F).
 - 5. ASTM D903: 525 N/m (3.0 lb/in. width).
 - 6. ASTM E96: 2.9 ng/m²s Pa (0.05 Perms).
 - 7. ASTM D461: 1.3 kg/m² (0.3 lb/ft²).

- D. Primer: Fortifiber Primer: Polymer emulsion based primer for Fortifiber self-adhered flashings.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Coordinate installation with weather-resistive barrier system.
- B. Protrusions from the deck area must be removed.
- C. Repair voids, damaged and unsupported areas before installing the membrane.
- D. Apply primer, when required, in accordance with Manufacturer's requirements.

3.02 INSTALLATION

- A. Install in accordance with Manufacturer's printed application procedures, precautions, and limitations.
- B. Install the membrane directly on clean, dry, continuous surfaces primed, where required, for adhesion.
- C. Install in sequence as shown on the drawings. Coordinate with the work of Sections 07 62 00 and other sections involved with openings in the exterior envelope of the project.
- D. Install without fish mouths and wrinkles.

END OF SECTION

PART 1 - GENERAL

1.01 CONTRACT CONDITIONS

- A. All other Contract Documents, including Drawings, Specifications, Project Manual and General and Supplemental Conditions of the Contract, complement the requirements of this section.
- B. Other sections of this Specification may relate to and may impose additional work and/or additional materials upon this section. Coordinate any cross-referencing of Specification sections.

1.02 DESCRIPTION OF WORK

- A. Provide all labor, material, equipment, transportation and services to provide joint sealants as shown on the drawings and herein specified.

1.03 SECTION INCLUDES

- A. Preparing sealant substrate surfaces.
- B. Sealant and backing.

1.04 REFERENCES

- A. ASTM C790 - Use of Latex Sealing Compounds.
- B. ASTM C804 - Use of Solvent-Release Type Sealants.
- C. ASTM C834 - Latex Sealing Compounds.
- D. ASTM C920 – Elastomeric Joint Sealants.

1.05 SUBMITTALS

- A. Product Data: Indicate type of sealant, chemical characteristics, performance criteria, limitations and color availability.
- B. Bond Test Reports for Exterior Sealants: Bond test reports with test results for joints between adjacent assemblies of construction materials specified for this project. Indicate whether primers are required.
- C. Color Samples: Manufacturer's standard selection. Submit additional custom color samples as directed by Architect.
- D. Sample Warranty: Meet or exceed provisions specified by this Section.

1.06 QUALITY ASSURANCE

- A. Manufacturer: Company specializing in manufacturing the products specified in this Section with minimum three (3) years experience.

1.07 ENVIRONMENTAL REQUIREMENTS

- A. Do not install solvent curing sealants in enclosed building spaces.
- B. Maintain temperature and humidity recommended by the sealant manufacturer during and after installation.

1.08 SEQUENCING AND SCHEDULING

- A. Coordinate work under provisions of Sections 01 31 13 and 01 31 19.
- B. Coordinate the work of this Section with all Sections referencing this Section.

1.09 WARRANTY

- A. Manufacturer's Warranty:
 - 1. Silicone Sealants: Standard 20-year material Warranty against failure, except at horizontal paving points.
 - 2. Other Sealants: Standard 5-year Warranty against failure of material.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Manufacturers and Products: As specified.

2.02 EXTERIOR SEALANTS

- A. Vertical Surfaces, Porous Materials, Non-Paintable, Weatherproofing Sealant: Silicone, ASTM C920, Type S, Grade NS, Class 25. Joint movement capabilities: 100% extension and 50% compression. Concrete, masonry, and wood.
 - 1. Dow Corning No. 790.
 - 2. Pecora, 890NST.
- B. Vertical Surfaces, Non-Porous Materials and Porous to Non-Porous Materials, Non-Paintable, Weatherproofing Sealant. Silicone, ASTM C920, Type S, Grade NS, Class 25. Joint movement capabilities: 50% extension and 50% compression.
 - 1. Dow Corning 791 or Dow Corning 795.
 - 2. GE, SCS2000 Silpruf.
 - 3. Pecora 895NSF.
- C. Vertical Surfaces, Paintable, Weatherproofing Sealant: Silyl Terminated Polyether Resin, ASTM C920, Type S, Grade NS, Class 50. Joint movement capabilities: 100% extension and 50% contraction.
 - 1. BASF, MasterSeal 150.
- D. Horizontal Joints: Recessed joint fillers indicated Section 03 10 00 for exterior concrete walks, and as indicated or required for horizontal surfaces. Two component polyurethane paving joint sealant, complying with ASTM C920, Type M Grade P, Class 25.
 - 1. Sonneborn, Sonolastic SL 2.
 - 2. Sika, Sikaflex 2c SL.
 - 3. Tremco, THC 900.

2.03 INTERIOR SEALANTS

- A. General Sealant: Paintable, siliconized acrylic latex sealant, complying with ASTM C834. Where installed at non-painted surfaces, match adjacent field color or provide colors as selected by Architect.
 - 1. DAP, ALEX PLUS Acrylic Latex Plus Silicone.
 - 2. Pecora, AC-20 + Silicone Acrylic Latex.
 - 3. Tremco, Tremflex 834 Siliconized Acrylic Latex.
- B. Threshold Sealant: Consistency for use with gun or knife without paint finish, light gray color.
 - 1. BASF, MasterSeal NP 2.
 - 2. Tremco, Dymonic.
- C. Interior Horizontal Cementitious Joints:
 - 1. BASF, MasterSeal SL 2.
 - 2. Tremco, THC 901.
- D. Acoustical Assemblies: As specified Section 07 92 19.
- E. Fire Rated Assemblies: As specified Section 07 84 00 and 07 92 19.

2.04 ACCESSORIES

- A. Joint Cleaner: As recommended by sealant or caulking manufacturer for joint surfaces.
- B. Joint Primers: Non-corrosive and non-staining type, as recommended by sealant manufacturer, for joint surface conditions encountered.
- C. Bond Breaker Tape: Polyethylene tape/plastic tape recommended by sealant manufacturer, applied to sealant contact surfaces where bond to substrate or backer rod must be avoided for proper performance of sealant. Provide self-adhesive tape where applicable.
- D. Backer Rods: Provide non-adhering type as recommended by sealant manufacturer and the following:
 - 1. Horizontal Joints: Closed cell polyethylene foam rod, except where joint filler is specified at paving.
 - 2. Vertical Joints: Closed cell polyethylene foam or "soft rod" (skinned open cell) polyethylene foam.
 - 3. Diameter: 1/3 greater than width of joint where it is to be installed.
 - 4. Polystyrene foam and open cell rods are not acceptable.

2.05 COLORS AND FINISHES

- A. Match colors of adjacent surfaces, except where paintable sealants are installed, paint under work of Section 09 91 13 and 09 91 23.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces and joint openings are ready to receive work and field measurements are as recommended by the manufacturer.

- B. Beginning of installation means installer accepts existing surfaces.

3.02 PREPARATION

- A. Clean and prime joints in accordance with manufacturer's instructions.
- B. Remove loose materials and foreign matter which might impair adhesion of sealant.
- C. Verify that joint backing and release tapes are compatible with sealant.
- D. Perform preparation in accordance with ASTM C804 for solvent release sealants and C790 for latex base sealants.
- E. Protect elements surrounding the work of this section from damage or disfiguration.

3.03 INSTALLATION

- A. Perform installation in accordance with ASTM C804 for solvent release and C790 for latex base sealants.
- B. Install sealant in accordance with manufacturer's instructions.
- C. Measure joint dimensions and size materials to achieve required width/depth ratios.
- D. Install joint backing to achieve a neck dimension no greater than 1/3 of the joint width.
- E. Install bond breaker where joint backing is not used.
- F. Apply sealant within recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.
- G. Install sealant free air pockets, foreign embedded matter, ridges, and sags.
- H. Tool joints concave.

3.04 CLEANING AND REPAIRING

- A. Clean work.
- B. Clean adjacent soiled surfaces.
- C. Repair or replace defaced or disfigured finishes caused by work of this Section.

3.05 PROTECTION OF FINISHED WORK

- A. Protect sealants until cured.

END OF SECTION