

07 61 13 - STANDING SEAM SHEET METAL ROOFING

- 1.1 SUMMARY
 - A. Section Includes:
 - 1. Standing-seam metal roofing.
- 1.2 PERFORMANCE REQUIREMENTS
 - A. Wind Uplift Resistance: UL 580 wind uplift rating UL 90.
- 2.1 MANUFACTURERS
 - A. Basis of Design: CENTRIA, SRS2 Structural Standing Seam Metal Roof Panel System. Provide basis of design product or comparable product approved by Architect prior to bid.
 - 1. CENTRIA Architectural Systems; Moon Township, PA 15108-2944; Tel: (800)759-7474; Tel: (412)299-8000; Fax: (412)299-8317; Email: info@CENTRIA.com; Web: www.CENTRIA.com.
- 2.2 MATERIALS
 - A. Aluminum Sheet: ASTM B 209 alloy as standard with manufacturer for finish required, with temper as required to suit forming operations and performance required.
 - 1. Thickness: 0.040 inch unless otherwise indicated.
 - 2. Surface: Smooth, flat.
- 2.3 STANDING SEAM METAL ROOF PANELS
 - A. Structural Standing Seam Metal Roof Panels: Formed with 2 inch (51 mm) high vertical ribs at panel edge[s] and evenly spaced raised longitudinal stiffening beads or planks], manufactured for sequential installation by attaching panels to supports using concealed clips and engaging edges of adjacent panels and mechanically seaming panel ribs together, sealed with factory-applied sealant.
 - 1. Panel Coverage: 12 inch (305 mm)
 - 2. Clips: Floating type, 14 ga G90 galvanized steel
- 2.4 FINISHES
 - A. Exposed Coil-Coated Finish:
 - a. Two-Coat Fluoropolymer: AAMA 620. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat.
 - B. Color: As selected by Architect from manufacturer's full range.
- 2.5 UNDERLAYMENT MATERIALS
 - A. Felts: ASTM D 226, Type II (No. 30), asphalt-saturated organic felts.
 - B. Slip Sheet: Building paper, 3-lb/100 sq. ft. minimum, rosin sized.
- 2.6 MISCELLANEOUS MATERIALS
 - A. Fasteners: Wood screws, annular-threaded nails, self-tapping screws, self-locking rivets and bolts, and other suitable fasteners designed to withstand design loads.
 - 1. Fasteners for Aluminum Sheet: Aluminum or Series 300 stainless steel.

07 62 00 - SHEET METAL FLASHING AND TRIM

- 1.1 SUMMARY
 - A. Section Includes:
 - 1. Manufactured reglets and counterflashing.
 - 2. Formed sheet metal fabrications.
 - 3. Formed steep-slope roof sheet metal fabrications.
 - 4. Formed wall sheet metal fabrications.
- 2.1 SHEET METALS
 - A. Aluminum Sheet: ASTM B 209, alloy as standard with manufacturer for finish required, with temper as required to suit forming operations and performance required.
 - 1. Exposed Coil-Coated Finishes:
 - a. Two-Coat Fluoropolymer: AAMA 620. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat.
 - 2. Color: Match standing-seam metal roofing color.
 - B. Underlayment Materials
 - A. Felt: ASTM D 226, Type II (No. 30), asphalt-saturated organic felt, nonperforated.
 - B. Self-Adhering, High-Temperature Sheet: Minimum 30 to 40 mils thick, consisting of slip-resisting polyethylene-film top surface laminated to layer of butyl or SBS-modified asphalt adhesive, with release-paper backing; cold applied. Provide primer when recommended by underlayment manufacturer.
 - 1. Thermal Stability: ASTM D 1970; stable after testing at 240 deg F.
 - 2. Low-Temperature Flexibility: ASTM D 1970; passes after testing at minus 20 deg.
 - C. Slip Sheet: Building paper, 3-lb/100 sq. ft. minimum, rosin sized.
 - A. Fasteners: Wood screws, annular threaded nails, self-tapping screws, self-locking rivets and bolts, and other suitable fasteners designed to withstand design loads and recommended by manufacturer of primary sheet metal or manufactured item.
 - 1. General: Blind fasteners or self-drilling screws, gasketed, with hex-washer head.
 - a. Exposed Fasteners: Heads matching color of sheet metal using plastic caps or factory-applied coating.
 - b. Blind Fasteners: High-strength aluminum or stainless-steel rivets suitable for metal being fastened.
 - 2. Fasteners for Aluminum Sheet: Aluminum or Series 300 stainless steel.
 - B. Sealant Tape: Pressure-sensitive, 100 percent solids, gray polyisobutylene compound sealant tape with release-paper backing. Provide permanently elastic, nonsag, nontoxic, nonstaining tape 1/2 inch wide and 1/8 inch thick.
 - C. Elastomeric Sealant: ASTM C 920, elastomeric polymer sealant; low modulus; of type, grade, class, and use classifications required to seal joints in sheet metal flashing and trim and remain watertight.
 - D. Butyl Sealant: ASTM C 1311, single-component, solvent-release butyl rubber sealant; polyisobutylene plasticized; heavy bodied for hooked-type expansion joints with limited movement.
 - E. Bituminous Coating: Cold-applied asphalt emulsion complying with ASTM D 1187.
- 2.4 REGLETS
 - A. Reglets: Units of type, material, and profile indicated, formed to provide secure interlocking of separate reglet and counterflashing pieces, and compatible with flashing indicated.
 - 1. Material: Aluminum, 0.024 inch thick.
 - 2. Finish: Match standing-seam metal roofing.
- 2.5 FABRICATION, GENERAL
 - A. General: 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 item indicated. Fabricate items at the shop to greatest extent possible.
- 2.6 STEEP-SLOPE ROOF SHEET METAL FABRICATIONS
 - A. Drip Edges: Fabricate from the following materials:
 - 1. Aluminum: 0.032 inch thick.
 - B. Eave, Rake Flashing: Fabricate from the following materials:
 - 1. Aluminum: 0.032 inch thick.

- 2.7 WALL SHEET METAL FABRICATIONS
 - A. Opening Flashings in Frame Construction: Fabricate head, sill, and similar flashings to extend beyond wall openings. Form head and sill flashing with 2-inch-high, end dams. Fabricate from the following materials:
 - 1. Aluminum: 0.032 inch thick.
- 07 65 00 - FLEXIBLE FLASHING**
- 1.1 SUMMARY
 - A. Flexible Flashing.
- 1.2 SUBMITTALS
 - A. USGBC LEED Submittals: Submit manufacturer's documentation for the following.
 - 1. Credit MR 4, Recycled Content: Submit product data and certification letter indicating percentages by weight of post-consumer and pre-consumer recycled content for products having recycled content. Include statement indicating costs for each product having recycled content.
 - 2. Credit MR 5, Regionally Extracted, Processed and Manufactured Materials: Submit product data indicating location of material manufacturer for regional materials. Include statement indicating cost for each regional material.
- 2.1 MANUFACTURERS
 - A. Acceptable Manufacturer: Hohmann & Barnard, Inc., which is located at: 30 Rasons Ct. P. O. Box 5270; Hauppauge, NY 11788-0270; Toll Free Tel: 800-645-0616; Tel: 631-234-0600; Email: requestinfo@wanshor@h-b.com; Web: www.h-b.com
- 07 92 00 - JOINT SEALANTS**
- 1.1 SUMMARY
 - A. Section Includes:
 - 1. Silicone joint sealants.
 - 2. Latex joint sealants.
 - 3. Preformed joint sealants.
- 2.1 SILICONE JOINT SEALANTS
 - A. Mildew-Resistant Silicone Joint Sealant: ASTM C 920.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. BASF Building Systems.
 - b. Dow Corning Corporation.
 - c. GE Advanced Materials - Silicones.
 - d. May National Associates, Inc.
 - e. Pecora Corporation.
 - f. Polymeric Systems, Inc.
 - g. Schnee-Morehead, Inc.
 - h. Sika Corporation; Construction Products Division.
 - i. Tremco Incorporated.
 - 2. Type: Single component (S).
 - 3. Grade: Nonsag (NS).
 - 4. Class: 50.
 - 5. Uses Related to Exposure: Nontraffic (NT).
- 2.2 LATEX JOINT SEALANTS
 - A. Latex Joint Sealant: Acrylic latex or siliconized acrylic latex, ASTM C 834, Type OP, Grade NF.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. BASF Building Systems.
 - b. Bostik, Inc.
 - c. May National Associates, Inc.
 - d. Pecora Corporation.
 - e. Schnee-Morehead, Inc.
 - f. Tremco Incorporated.
- 2.3 PREFORMED JOINT SEALANTS
 - A. Preformed Foam Joint Sealant: Manufacturer's standard preformed, pre-compressed, open-cell foam sealant manufactured from urethane foam with minimum density of 10-lb/cu. ft. and impregnated with a nondraying, water-repellent agent. Factory produce in pre-compressed sizes in roll or stick form to fit joint widths indicated; coated on one side with a pressure-sensitive adhesive and covered with protective wrapping.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Dayton Superior Specialty Chemicals.
 - b. EMSEAL Joint Systems, Ltd.
 - c. Sandell Manufacturing Co.
 - d. Schul International, Inc.
 - e. Willseal USA, LLC.
 - A. Cylindrical Sealant Backings: ASTM C 1330, Type C (closed-cell material with a surface skin) and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.
 - B. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer.
- 2.5 MISCELLANEOUS MATERIALS
 - A. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.
- 3. JOINT-SEALANT SCHEDULE
 - A. Joint-Sealant Application: Exterior joints in vertical surfaces and horizontal non-traffic surfaces.
 - 1. Joint Locations:
 - a. Construction joints in cast-in-place concrete.
 - b. Perimeter joints between materials listed above and frames of doors, windows and louvers.
 - c. Control and expansion joints in ceilings and other overhead surfaces.
 - d. Other joints as indicated.
 - 2. Joint Sealant: Silicone.
 - 3. Joint Sealant: Pre-formed foam.
 - 4. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.
 - B. Joint-Sealant Application: Interior joints in horizontal traffic surfaces.
 - 1. Joint Locations:
 - a. Isolation joints in cast-in-place concrete slabs.
 - b. Control and expansion joints in tile flooring.
 - c. Other joints as indicated.
 - 2. Joint Sealant: Silicone.
 - 3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.
 - C. Joint-Sealant Application: Interior joints in vertical surfaces and horizontal non-traffic surfaces.

- 1. Joint Locations:
 - a. Control and expansion joints on exposed interior surfaces of exterior walls.
 - b. Perimeter joints of exterior openings where indicated.
 - c. Tile control and expansion joints.
 - d. Vertical joints on exposed surfaces of walls and partitions.
 - e. Perimeter joints between interior wall surfaces and frames of interior doors and windows.
 - f. Other joints as indicated.
 - 2. Joint Sealant: Latex.
 - 3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.
 - D. Joint-Sealant Application: Mildew-resistant interior joints in vertical surfaces and horizontal non-traffic surfaces.
 - 1. Joint Sealant Location:
 - a. Joints between plumbing fixtures and adjoining walls, floors, and counters.
 - b. Tile control and expansion joints where indicated.
 - c. Other joints as indicated.
 - 2. Joint Sealant: Silicone.
 - 3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.
- 08 14 33 - INTERIOR STILE AND RAIL WOOD DOORS & FRAMES**
- 1.1 SUMMARY
 - A. Architectural interior stile and rail wood doors and frames.
 - 2.1 MANUFACTURER
 - A. VT Industries, Inc., 1000 Industrial Park, PO Box 490, Holstein, Iowa 51025. Toll Free (800) 827-1615. Phone (712) 368-4381. Fax (712) 368-4111. Website: www.vtindustries.com; E-mail: door_info@vtindustries.com.
 - 2.2 STILE AND RAIL WOOD DOORS
 - A. Doors: Architectural interior stile and rail wood doors.
 - 1. Glass Panels: Model 3021
 - B. Compliance: WDMA I.S.6-A, custom grade.
 - C. Design:
 - 1. Panel Type: Glazed.
 - 2. Door Top: Square.
 - 3. Top Panel: Square.
 - D. Non-Rated Doors:
 - 1. Door Thickness: 1-3/8 inches.
 - 2. Stile Width: 5 inches, unless otherwise noted.
 - 3. Mullion Width: 3 inches, unless otherwise noted
 - 4. Rails:
 - a. Top Rail Width: 6 inches, unless otherwise noted.
 - b. Lock Rail Width: 8-3/4 inches, unless otherwise noted.
 - c. Bottom Rail Width: 8 inches, unless otherwise noted.
 - 5. Panels:
 - a. Flat Panel Thickness: 5/8 inch.
 - E. Raised Panel Thickness: n/a
 - 2.3 DOOR CONSTRUCTION
 - A. Stile Edge: Matching hardwood stile edge.
 - B. Inner Stile and Rail: Stile and Rail Wood Doors 08216 (08 14 33) - 7
 - 1. Non-Rated Doors and 20-Minute Fire-Rated Doors: Specified wood veneer pressed over structural composite lumber.
 - 2. 45-, 60-, and 90-Minute Fire-Rated Doors: Specified wood veneer pressed over noncombustible material.
 - C. Panels:
 - 1. Specified wood veneer pressed over medium-density fiber core.
 - 2. Specified MDF veneer pressed over fire-retardant core.
 - 3. Specified MDF panels for limited use on 1-, 2-, or 3-panel doors for painting.
 - D. Stile and Rail Joints: Doweled construction.
 - E. Hinges and Face Plates: Factory drill pilot holes.
 - F. Sticking Used with Panels or Glass: Square.
 - 2.4 HARDWARE
 - A. Factory machine doors in accordance with templates from specified hardware manufacturers and hardware schedule.
 - 2.5 FINISH
 - A. Stile and Rail Doors: Manufacturer's factory finish.
 - B. Factory Finish: VT Industries factory finish.
 - 1. Description: WDMA TR-6 catalyzed polyurethane system.
 - a. Clear Finish: Clear.
 - b. Stain Color: Match Architects sample.
 - c. Prime for opaque finished doors.
 - 2. Sealers and Topcoats: UV-cured polyurethane.
 - C. Top and Bottom Rails: Factory sealed with wood sealer.
- 08 14 34 - EXTERIOR DOOR ASSEMBLIES**
- 1.1 SUMMARY
 - A. Section Includes:
 - 1. Exterior wood doors, transom
 - 2. Prehung Systems
 - 3. Glazing.
 - 2.1 EXTERIOR STILE AND RAIL WOOD DOORS
 - A. Exterior Stile and Rail Wood Doors: Exterior doors complying with WDMA I.S.6, "Industry Standard for Wood Stile and Rail Doors."
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide exterior wood doors as
 - manufactured by JELD-WEN Windows and Doors; 3250 Lakeport Blvd. P.O. Box 1329; Klamath Falls, OR 97601-0268, USA; Phone 541.885.7412, fax 541.884.3331; Toll Free 800.535. 3936; website www.jeld-wen.com
 - 2. Finish and Grade: Transparent and Premium or Select.
 - 3. Wood Species: Manufacturer's standard softwood species and cut.
 - 4. Door Style: Paneled and glass as indicated on drawings
 - 5. Thickness: 1 1/4 inch (44.5 mm)
 - 6. Transom Shape: Rectangle
 - 7. Glass: Uncoated, clear, fully tempered float glass, 5.0 mm thick.
- 08 16 14 - CUSTOM FIBERGLASS PATIO DOORS**
- 1.1 SUMMARY
 - A. Fiberglass Folding Patio Doors
 - B. Prehung Hardwood Systems
 - C. Glazing
 - 2.1 MANUFACTURER
 - A. JELD-WEN® Windows and Doors; IWP Doors - San Diego; 7365 Mission Gorge Rd. Ste G; San Diego, CA 92120, USA; Phone 619.229.6700, fax 619.229.1150; website www.jeld-wen.com.
 - B. Basis of Design: Doors are based on the JELD-WEN®'s IWP Aurora Custom Fiberglass, Folding Patio Doors, Design [A501] 1L 3R.
 - 2.2 MATERIALS
 - A. Fiberglass Skins: Strata Technology, incorporating multiple layers of resins, tinted resins, base colors and reinforcing materials.
 - B. Stiles and Rails: Engineered wood (laminated veneer lumber).
 - C. Core: PolyMicro foam.
 - 2.3 FIBERGLASS FOLDING PATIO DOORS
 - A. Finish
 - 1. Paint Surface
 - a. Color: Eggshell.
 - B. Hardware
 - 1. Entry Locksets: Left-hand
 - a. Exterior escutcheon plate
 - b. Key-locking drop bolts
 - c. Night latches
 - d. Mortise locks
 - e. Interior escutcheon plate
 - f. Pulls
 - 2. Style and Finish: Rocky Mountain, Brushed Stainless Steel.
 - 2.4 PREHUNG HARDWOOD SYSTEMS
 - 1. Four Door Configuration: 1L3R
 - A. Jamb Width: 4-9/16 inch.
 - B. Casing:
 - 1. Exterior: #16.
 - 2. Interior: #16.
 - C. Hinges: Solid brass concealed-bearing.
 - 1. Size: 4.5 by 4.5 square
 - 2. Finish: Satin Nickel
 - D. Sills: Polished Aluminum.
 - 2.5 GLAZING
 - A. Custom: Tempered, dual glazed
 - 1. Type: Low-E

- B. Vinyl windows will be furnished and installed by Contractor.
- 1.1 DESIGN REQUIREMENTS
 - A. Structural Requirements - Provide windows capable of complying with requirements indicated:
 - 1. Design pressure: +50/-50 psf
 - B. Impact (Windborne-Debris) Resistance
 - 1. Windows capable of resisting impact from windborne debris, when tested in accordance with ASTM E1886, ASTM E1996, and AAMA 506.
- 2.1 MANUFACTURER.
 - A. JELD-WEN® Windows and Doors; 3250 Lakeport Blvd. P.O. Box 1329; Klamath Falls, OR 97601-0268, USA; Phone 541.885.7412, fax 541.884.3331; Toll free 800.535. 3936; website www.jeld-wen.com
 - B. Basis of Design: Windows are based on JELD-WEN®'s Premium Atlantic Vinyl Windows.
- 2.2 MANUFACTURED UNITS
 - A. Frame
 - 1. Jamb Depth
 - a. Windows: 3 inch
 - B. Sash
 - 1. Thickness
 - a. Awning Windows: 2-1/4 inch
 - b. Single-Hung Windows: 1-1/4"
 - C. Exterior Trim
 - 1. Frame Options:
 - a. Window: Integral Nailing Fin
 - D. Weatherstripping
 - 1. Awning Windows: .210 fin pile combined with vinyl flap
 - 2. Single-Hung Windows: .250 fin pile
- E. Hardware
 - 1. Awning Windows
 - a. Hinges: Dual arm operator with corrosion resistant hinges and multipoint lock with E-Guard.
 - b. Operator: Truth
 - c. Lock: Lever/Tie Bar
 - d. Handle Profile: Manual Folding Crank
 - e. Finish: Color match window frame extrusion
 - 2. Single-Hung Windows
 - a. Balance: Spiral
 - b. Lock: Latching Cam-Lock
 - c. Finish: Color match window frame extrusion
- F. Glazing
 - 1) Two panes of glass utilizing a continuous roll formed stainless steel and dual seal sealant.
 - 2) Overall Nominal Thickness: 7/8 inch (22.2mm)
 - 3) Type: Graylite (Turtle)
 - 4) Coating Options: Low E on surface 2
 - 2.3 ACCESSORIES
 - A. Grilles
 - 1. Simulated Divided Lites (SDL)
 - a. Exterior Muntins
 - 1) Material: Extruded Mikron Wood permanently applied to exterior of insulating glass unit.
 - 2) Pattern: As selected by Architect
 - 3) Width: 1 inch (25.4mm)
 - 4) Finish: Match exterior finish
 - 2.4 FINISH
 - A. Color: White

THE GRUENE HOUSE
CINNAMON SHORE
175 SEASIDE DR.
PORT ARANSAS, TX 78373

SHEET NO. **Ao.3**

SPECIFICATIONS

CIN 3401R

1 JUN 13

REGISTERED ARCHITECT STATE OF TEXAS
BRENNER DESIGN
D.M.A. BRENNER
317.262.1220
317.262.1260 fax
www.brennerdesign.com

620 N. Delaware
Indianapolis, IN 46204
317.262.1220 tel
317.262.1260 fax
www.brennerdesign.com

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Architecture
Interiors
Construction Management