SECTION 06 60 00

CELLULAR PVC FABRICATIONS

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\*\* NOTE TO SPECIFIER \*\* Wolf Home Products; vapor retarders.  
This section is based on the products of Wolf Home Products, which is located at:  
20 W. Market St.  
York, PA 17401  
Toll Free Tel: 800-388-9653  
Email: [request info (JDFoura@wolfhomeproducts.com)](https://arcat.com/rfi?action=email&company=Wolf%252BHome%252BProducts&message=RE%253A%2520Spec%2520Question%2520(06600whp)%253A%2520&coid=52495&spec=06600whp&rep=&fax=)  
Web: <https://www.wolfhomeproducts.com>   
 [ [Click Here](https://arcat.com/company/wolf-home-products-52495) ] for additional information.  
Wolf Home Products was founded in 1843 as a single store selling dry goods and lumber on the banks of Pennsylvania's Susquehanna River. During the first half of the 1900s, the company expanded into a mid-Atlantic wholesale and retail lumber operation with 30 locations.  
By the early 2000s, Wolf transitioned its successful lumber operation into a sourcing organization, offering kitchen, bath, and building products exclusively to independent building materials dealers.  
Wolf Home Products continued its growth with the introduction of Wolf-branded product lines in 2010. Today, the company is committed to product and geographic expansion, servicing 3,500+ dealers nationally and in Canada.

1. GENERAL
   1. SECTION INCLUDES
      1. Cellular PVC Fabrications of the following types:
         1. Decking. (Perspective Decking, Serenity Decking)
         2. Porch flooring. (Serenity Porch)
         3. Railings. (Distinction Railings, Wolf Railings)
         4. Siding. (Portrait Siding)
         5. Trim.
         6. Outdoor lighting.
   2. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 06 10 00 - Rough Carpentry.
    2. Section 06 20 00 - Finish Carpentry.
    3. Section 07 27 00 - Air Barriers.
    4. Section 07 90 00 - Joint Protection.
    5. Section 09 90 00 - Painting and Coating.
  1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. ASTM International (ASTM):
       1. ASTM B429 - Standard Specification for Aluminum Alloy Extruded Structural Pipe and Tube.
       2. ASTM C177 - Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus.
       3. ASTM C1363 - Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus.
       4. ASTM D256 - Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics.
       5. ASTM D570 - Standard Test Method for Water Absorption of Plastics.
       6. ASTM D635 - Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position; 2018.
       7. ASTM D648 - Standard Test Method for Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position.
       8. ASTM D696 - Test Method for Coefficient of Linear Expansion of Plastics.
       9. ASTM D790 - Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
       10. ASTM D792 - Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement.
       11. ASTM D1435 - Practice for Outdoor Weathering of Plastics.
       12. ASTM D1761 - Standard Test Methods for Mechanical Fasteners in Wood.
       13. ASTM D1784 - Standard Specification for Rigid Poly(Vinyl Chloride) (PVC) Compounds and Chlorinated Poly(Vinyl Chloride) (CPVC) Compounds.
       14. ASTM D2244 - Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates.
       15. ASTM D3345 - Standard Test Method for Laboratory Evaluation of Solid Wood for Resistance to Termites.
       16. ASTM D3679 - Standard Specification for Rigid Poly(Vinyl Chloride) (PVC) Siding; 2017.
       17. ASTM D4226 - Test Methods for Impact Resistance of Rigid Poly Vinyl Chloride (PVC) Building Products.
       18. ASTM D5206 - Standard Test Method for Windload Resistance of Rigid Plastic Siding; 2013.
       19. ASTM D5420 - Standard Test Method for Impact Resistance of Flat, Rigid Plastic Specimen by Means of a Striker Impacted by a Falling Weight (Gardner Impact).
       20. ASTM D6662 - Standard Specification for Polyolefin-Based Plastic Lumber Decking Boards.
       21. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
       22. ASTM E330 - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.
       23. ASTM G147 - Practice for Conditioning and handling of Nonmetallic Materials for Natural and Artificial Weathering Tests.
    2. American Association of Textile Chemists and Colorists (AATCC):
       1. AATCC 127 - Water Resistance: Hydrostatic Pressure Test.
    3. American Wood Protection Association (AWPA):
       1. AWPA E12 - Standard Method of Determining Corrosion of Metal in Contact with Treated Wood.
    4. International Code Council (ICC):
       1. ICC AC227 - Rigid Cellular PVC Non-Load Bearing Exterior Trim.
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
     2. Product Data:
        1. Manufacturer's data sheets on each product to be used.
        2. Preparation instructions and recommendations.
        3. Storage and handling requirements and recommendations.
        4. Typical installation methods.

\*\* NOTE TO SPECIFIER \*\* Delete if not applicable to product type.

* + 1. Verification Samples: Two representative units of each type, size, pattern and color.
    2. Shop Drawings: Include details of materials, construction and finish. Include relationship with adjacent construction.
  1. QUALITY ASSURANCE
     1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum five years documented experience.
     2. Installer Qualifications: Company specializing in performing Work of this section with minimum two years documented experience with projects of similar scope and complexity.
     3. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

\*\* NOTE TO SPECIFIER \*\* Include mock-up if the project size or quality warrant the expense. The following is one example of how a mock-up on might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Construct a mock-up with actual materials in sufficient time for Architect's review and to not delay construction progress. Locate mock-up as acceptable to Architect and provide temporary foundations and support.
       1. Intent of mock-up is to demonstrate quality of workmanship and visual appearance.
       2. If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
       3. Retain mock-up during construction as a standard for comparison with completed work.
       4. Do not alter or remove mock-up until work is completed or removal is authorized.
  1. PRE-INSTALLATION CONFERENCE
     1. Convene a conference approximately two weeks before scheduled commencement of the Work. Attendees shall include Architect, Contractor and trades involved. Agenda shall include schedule, responsibilities, critical path items and approvals.
  2. DELIVERY, STORAGE, AND HANDLING
     1. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
     2. Protect from damage due to weather, excessive temperature, and construction operations.
  3. PROJECT CONDITIONS
     1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
  4. WARRANTY
     1. Manufacturer's Warranty: Provide manufacturer's standard limited warranty.

\*\* NOTE TO SPECIFIER \*\* Delete warranty duration options not required.

* + - 1. Warranty Duration, Perspective Decking: 25 years.
      2. Warranty Duration, Serenity Decking:
         1. Residential: Lifetime.
         2. Non-residential: 20 years.
      3. Warranty Duration, Serenity Porch:
         1. Residential: Lifetime.
         2. Non-residential: 20 years.
      4. Warranty Duration, Distinction Railings: Lifetime.
      5. Warranty Duration, Wolf Railings:
         1. Residential: Lifetime.
         2. Non-residential: 30 years.
      6. Warranty Duration, Siding:
         1. Residential: Lifetime.
         2. Non-residential: 20 years.
      7. Warranty Duration, Trim:
         1. Residential: Lifetime.
         2. Non-residential: 25 years.
      8. Warranty Duration, Outdoor Lighting: Five years.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Supplier: Wolf Home Products, which is located at: 20 West Market Street; York, PA 17401; ASD Toll Free: 800-388-9653; Email: \_\_\_\_\_; Web: www.wolfhomeproducts.com.

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

* 1. CELLULAR PVC DECKING

\*\* NOTE TO SPECIFIER \*\* Delete basis of design options not required.

* + 1. Basis of Design: Wolf Perspective Decking; as manufactured by Wolf Home Products.
       1. Performance Requirements:
          1. Meets or exceeds ICC standards.
          2. Resists rot, delamination, splitting, and cracking.
          3. Moisture, mold, and mildew resistant.
          4. Made from up to 94 percent recycled content.
          5. Suitable for commercial or residential applications.
       2. Material: Solid cellular PVC.
       3. Dimensions: 7/8 x 5-1/2 inches (22 x 140 mm).
       4. Rimboards: 3/4 x 11-1/4 inches (19 x 286 mm) x 12 feet (3658 mm) long.
       5. Profile: Grooved, to accept hidden fasteners.
       6. Texture: Wood grain.

\*\* NOTE TO SPECIFIER \*\* Optional. Delete if not required.

* + - 1. Seal: Dexerdry, acts like gutters to create dry space below the deck.

\*\* NOTE TO SPECIFIER \*\* Delete board length options not required.

* + - 1. Board Length: 12 feet (3658 mm).
      2. Board Length: 16 feet (4877 mm).
      3. Board Length: 20 feet (6096 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - 1. Color: Acacia.
      2. Color: Cedar Ridge.
      3. Color: Potomac Grey.
      4. Color: Redwood.
      5. Color: Dune.
      6. Color: To be selected by Architect.

\*\* NOTE TO SPECIFIER \*\* Delete fastener system options not required.

* + - 1. Fastener System: Universal hidden fastener.
      2. Fastener System: Phantom GT hidden fastener.
    1. Basis of Design: Wolf Serenity Decking; as manufactured by Wolf Home Products.
       1. Performance Requirements:
          1. Meets or exceeds ICC standards.
          2. Resists rot, delamination, splitting, and cracking.
          3. Moisture, mold, and mildew resistant.
       2. Material: Solid cellular PVC.
       3. Dimensions: 1 x 5-1/2 inches (25 x 140 mm).
       4. Rimboards: 1/2 x 11-3/4 inches (12 x 298 mm) x 12 feet (3658 mm) long.
       5. Texture: Wood grain, reversible.

\*\* NOTE TO SPECIFIER \*\* Delete board length options not required.

* + - 1. Board Length: 12 feet (3658 mm).
      2. Board Length: 16 feet (4877 mm).
      3. Board Length: 20 feet (6096 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - 1. Color: Amber Wood
      2. Color: Black Walnut.
      3. Color: Golden Cypress.
      4. Color: Driftwood Grey.
      5. Color: Rosewood.
      6. Color: Silver Teak
      7. Color: Teakwood.
      8. Color: Weathered Ipe.
      9. Color: Harbor Grey.
      10. Color: Sand Castle.
      11. Color: To be selected by Architect.

\*\* NOTE TO SPECIFIER \*\* Delete fastener system options not required.

* + - 1. Fasteners: Hidden.
      2. Fasteners: Traditional.

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

* 1. CELLULAR PVC PORCH FLOORING
     1. Basis of Design: Wolf Serenity Porch; as manufactured by Wolf Home Products.
        1. Performance Requirements:
           1. Meets or exceeds ICC standards.
           2. Resists rot, delamination, splitting, and cracking.
           3. Mold and mildew resistant.
           4. Resistant to staining and fading.
           5. Recycled Content: 95 percent.
           6. Surface Burning Characteristics per ASTM E84: Flame spread index maximum 200, smoke developed maximum 285.
           7. Load Capacity: 100 psf (4.79 kPa) with deflection limited to 1/360 of span.
        2. Material: Capped cellular PVC.

\*\* NOTE TO SPECIFIER \*\* Pewter color size is 3/4 x 3-1/8 (19 x 79 mm), all other colors are 1 x 3-1/8 inch (25 x 79 mm). Delete dimension option not required.

* + - 1. Dimensions: 1 x 3-1/8 inches (25 x 79 mm).
      2. Dimensions: 3/4 x 3-1/8 inches (19 x 79 mm).
      3. Texture: Wood grain, reversible.
      4. Profile: Tongue and groove.

\*\* NOTE TO SPECIFIER \*\* Delete board length options not required.

* + - 1. Board Length: 10 feet (3048 mm).
      2. Board Length: 12 feet (3658 mm).
      3. Board Length: 16 feet (4877 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - 1. Color: Amber Wood
      2. Color: Golden Cypress.
      3. Color: Silver Teak
      4. Color: Weathered Ipe.
      5. Color: Harbor Grey.
      6. Color: Sand Castle.
      7. Color: Pewter.
      8. Color: To be selected by Architect.

\*\* NOTE TO SPECIFIER \*\* Use Type 316 for coastal applications. Delete fastener options not required.

* + - 1. Fasteners: Stainless steel, Type 316.
      2. Fasteners: Stainless steel, Type 305.
      3. Minimum Screw Size: No. 7 screw.
      4. Minimum Fastener Length: 2 inches (51 mm).
      5. Adhesive: Manufacturer's recommended waterproof, air cure type.

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

* 1. CELLULAR PVC RAILINGS

\*\* NOTE TO SPECIFIER \*\* Delete basis of design options not required.

* + 1. Basis of Design: Wolf Distinction Railing; as manufactured by Wolf Home Products.
       1. Performance Requirements:
          1. Meets or exceeds ICC standards.
          2. Suitable for commercial or residential applications.
       2. Material: Solid cellular PVC.

\*\* NOTE TO SPECIFIER \*\* Delete length options not required.

* + - 1. Rail Section Length: 6 feet (1829 mm).
      2. Rail Section Length: 8 feet (2438 mm).

\*\* NOTE TO SPECIFIER \*\* Delete configuration options not required.

* + - 1. Configuration: Flat.
      2. Configuration: Stair.
      3. Configuration: Flat and stair.
      4. Components:

\*\* NOTE TO SPECIFIER \*\* Delete component options not required.

* + - * 1. Top and bottom rails. Top rail features elegant cures and flat top for a beverage friendly surface.
        2. Channel: Structural grade aluminum H-channel.
        3. Baluster: Solid core baluster.
        4. Post Sleeves: Allow for quick and easy installation.
        5. Brackets: Optibracket attaches straight or at 22.5, 45, or 90 degree angles.
        6. Hardware.
        7. Post caps.
        8. Trim rings.
      1. Color: White.
    1. Basis of Design: Wolf Railing; as manufactured by Wolf Home Products.
       1. Performance and Design Requirements:
          1. Distributed Loads: Design railing assembly, wall rails, and attachments to resist distributed force of 50 lbs per linear foot (730 N per m) applied to the top of the assembly and in any direction.
          2. Concentrated Loads: Design railing assembly, wall rails, and attachments to resist a concentrated force of 200 lbs (89 N) applied at any point on the top of the assembly and in any direction.
          3. Allow for expansion and contraction of members and building movement without damage to connections or members.
          4. Provide anchors and other components as required to attach to structure; where exposed fasteners are unavoidable provide flush countersunk fasteners.
          5. Poly Vinyl Chloride (PVC) per ASTM D1784: lmpact-resistant and ultraviolet (UV) stable extruded product.
          6. Surface Burning Characteristics per ASTM E84: Flame spread index of 200, maximum.
          7. Aluminum Reinforcement for Rails: Aluminum extrusions; alloy and temper 6063-T5 or 6063-T6 complying with ASTM B429.
       2. Material: Solid cellular PVC.

\*\* NOTE TO SPECIFIER \*\* Delete configuration options not required.

* + - 1. Configuration: Flat.
      2. Configuration: Stair.
      3. Configuration: Flat and stair.

\*\* NOTE TO SPECIFIER \*\* Delete baluster style options not required.

* + - 1. Baluster Style: Value Series, Colonial.
      2. Baluster Style: Value Series, Square.
      3. Baluster Style: Classic Series, Round.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - * 1. Color: White.
        2. Color: Black Bronze.
        3. Color: Matte Black.
        4. Color: Copper.
        5. Color: Rust.
      1. Baluster Style: Deluxe Series, Scenic Clear View Glass.
      2. Baluster Style: Deluxe Series, Deckorators Classic.
      3. Baluster Style: Deluxe Series, Deckorators Baroque.
      4. Baluster Style: Deluxe Series, Deckorators Arc.
      5. Structural Posts: Colonial structural post.
      6. Post Sleeve Size: As required to fit wood posts.
      7. Post Trim: One piece post trim.

\*\* NOTE TO SPECIFIER \*\* Delete post cap options not required.

* + - 1. Post Cap: As specified in Outdoor Lighting Article.
      2. Post Cap: New England Classic Cap.
      3. Post Cap: Federation Cap.
      4. Post Cap: External Pyramid Cap.
      5. Rail Brackets and Mounting Hardware: Manufacturer's mounting brackets to match railing configuration. Complete with cover plates and fasteners.
      6. Exposed Fasteners: No exposed bolts or screws one trim has been installed.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - 1. Color: White.
      2. Color: Almond.
      3. Color: Khaki.
      4. Color: Mocha Walnut.
      5. Color: Earl Gray.
      6. Color: Green Teak.
      7. Color: To be selected by Architect.
      8. Adhesive: Manufacturer's recommended waterproof, air cure type.

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

* 1. CELLULAR PVC SIDING
     1. Performance Requirements:
        1. Comply with ASTM D3679.
        2. Coefficient of Linear Expansion per ASTM D696: Exceeds requirements.
        3. Weathering per ASTM D1435 and ASTM G147: Passes; Uniform of color; no peeling, chipping, cracking, flaking and pitting.
        4. Uniformity of Color per ASTM D2244: Passed.
        5. Horizontal Flammability per ASTM D635:
           1. Extent of Burn: 0 mm.
           2. Average Time of Burn: Less than 1 seconds.
     2. Basis of Design: Wolf Portrait Siding; as manufactured by Wolf Home Products.
        1. Material: Solid cellular PVC.

\*\* NOTE TO SPECIFIER \*\* Delete profile option not required.

* + - 1. Profile: Silhouette, Single 7 inch (178 mm) exposure, 8-1/4 inch (210 mm) total face dimension.
         1. Wind Resistance per ASTM D5206: Capable of withstanding 95 psf (4.55 kPa) negative pressure.
         2. Impact Resistance per ASTM D4226: 169 in.lbf (19.1 Nm).
         3. Thermal Resistance Value per ASTM C1363: 0.37 hr sq ft F/btu (256.54 cm K per W).
      2. Profile: Vignette, Double 4 inch (102 mm) exposure, 9-1/4 inch (235 mm) total face dimension.
         1. Wind Resistance per ASTM D5206: Capable of withstanding 185 psf (8.86 kPa) negative pressure.
         2. Impact Resistance per ASTM D4226: 71 in.lbf (8 Nm).
         3. Thermal Resistance Value per ASTM C1363: 0.36 hr. sq.ft. F/btu (249.6 cm K per W).

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - 1. Color: Morning Mist.
      2. Color: Oyster White.
      3. Color: Graphite.
      4. Color: Riverstone.
      5. Color: Sandstone.
      6. Color: Hemlock.
      7. Color: Chestnut.
      8. Color: Vintage Taupe.
      9. Color: To be selected by Architect.
      10. Nailing Flange: Single layer with pre-slotted nail holes and smooth finish.
    1. Accessory Materials

\*\* NOTE TO SPECIFIER \*\* Delete accessory options not required.

* + - 1. Drainage House Wrap: Non-woven vapor permeable water resistant barrier.
         1. Basis of Design: BLOCK-IT House Wrap as manufactured by Kimberly-Clark and supplied by Wolf Home Products.
      2. Starter Strips: Wolf Portrait Siding starter strips.
      3. Trim and Accessories: Coordinating accessories made of same material as required for complete installation.

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - * 1. Color: Match adjacent siding.
        2. Color: \_\_\_\_\_.
        3. Size: 5/4 cellular PVC trim.
        4. Types: As indicated on Drawings.
      1. Seam Plates: Infinity Seam Plates designed and sized to match siding profile.
         1. Adhesive: Approved by siding manufacturer.
      2. Fasteners: Stainless steel or hot-dipped galvanized steel, 6 penny nails.
         1. Long enough to penetrate through substrate a minimum of 3/4 inch (19 mm).
         2. Do not use brads, staples, wire nails, or fine-threaded wood screws.
         3. Trim Fasteners: Cortex hidden fastening system for trim.

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

* 1. CELLULAR PVC TRIM
     1. Performance Requirements:
        1. Density (ASTM D792): 0.022 lbs per cu inch (0.60 g per cu cm).
        2. Water Absorption, 24 hours (ASTM D570): Less than 0.3 percent.
        3. Water Resistance (ASTM D570 and AATCC 127): No penetration, passes ICC AC227.
        4. Surface Burning (ASTM E84): Flame spread index of 25.
        5. Burning Rate (ASTM D635): No burn when flame removed.
        6. Gardener Impact Resistance (ASTM D5420): 629 in-lbf (71.1 Nm) for 3/4 inch (19 mm) thick trim.
        7. Coefficient of Linear Thermal Expansion (ASTM D 696): .000035 inch/inch/degree F (.000063 mm/mm/C).
        8. Strength (ASTM D790):
           1. MOR (Flexural Strength): 3,600.0 psi (24,821 kPa).
           2. MOR (Flexural Modulus): 144,000.0 psi (992,845 kPa).
        9. Weathering (ASTM G155 and ASTM D790):
           1. MOR Change: Plus 2.4 percent, Pass ICC AC 227.
           2. MOE Change: Plus 0.7 percent.
        10. Weathering (ASTM D6662 and ASTM D790):
            1. MOR Change: Plus 0.1 percent, Pass ICC AC 227.
            2. MOE Change: Plus 0.9 percent.
        11. Termite Resistance (ASTM D3345): 9.2, Pass ICC AC 227.
        12. Mechanical Fastener, Allowable Load (ASTM D1761): 151 lbf (671.7 N) with 8d nail and 1 inch (25 mm) thick trim.
        13. Negative Transverse Wind Load (ASTM E330): 72 psf (3.45 kPa).
        14. Heat Deflection Temperature (ASTM D648): 146 degrees F (63 degrees C) at 264 psi (1820 kPa).
        15. Corrosion by Preservative Treated Wood (AWAP E12): No weight loss, Pass ICC AC 227.
        16. Izod Impact, Notched (ASTM D648): 0.37 ft-lb/in (0.02 N-m/mm).
        17. Heat Conductivity (ASTM C177): 0.50 btu-in/hr-ft2-degrees F (0.00072 W/cm C).
     2. Basis of Design: Wolf PVC Trim; as manufactured by Wolf Home Products.
        1. Material: Solid cellular PVC.
        2. Allowable Tolerances:
           1. Variation in component length: Minus 0.00 and plus 7/8 inch (22 mm).
           2. Variation in component Width: Minus 0.00 and plus 1/16 inch (1.6 mm).
           3. Variation in component thickness: Plus or minus 5 percent.
           4. Variation in component edge: Plus or minus 2 degrees.
           5. Density range: 0.58 - 0.62.
           6. Shore-D hardness: 45.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - 1. Color: Morning Mist.
      2. Color: Oyster White.
      3. Color: Graphite.
      4. Color: Riverstone.
      5. Color: Sandstone.
      6. Color: Hemlock.
      7. Color: Chestnut.
      8. Color: Vintage Taupe.
      9. Color: To be selected by Architect.
    1. Accessory Materials

\*\* NOTE TO SPECIFIER \*\* Delete accessory options not required.

* + - 1. Fasteners: Stainless steel or hot-dipped galvanized steel, 6 penny nails.
         1. Long enough to penetrate through substrate a minimum of 3/4 inch (19 mm).
         2. Do not use brads, staples, wire nails, or fine-threaded wood screws.
      2. Adhesives: Extreme Adhesives or as recommended by trim manufacturer.
      3. Sealants: Fill n Flex or as recommended by trim manufacturer.
      4. Paints: See Section 09 90 00 - Painting and Coating:
         1. Light Colors with LRV or 55 or higher: Use a 100 percent acrylic latex paint.
         2. Dark Colors with LRV or 54 or lower: Use paints specifically formulated for use on vinyl or PVC products. Acrylic or urethane based latex exterior paints are recommended.

\*\* NOTE TO SPECIFIER \*\* Used for seaming, splicing of insulation sheets, house wraps, wall boards, splicing around window frames, and as a waterproofing tape on outdoor deck's rafter. Delete article if not required.

* 1. SELF-ADHERING FLASHING TAPE:
     1. Product: Nichigo G-Tape No. 3040BK. For installation of exterior wall fenestration products. Maintains performance after exposure to prolonged sunlight and precipitation.
     2. Composition:
        1. LDPE laminating layer.
        2. HDPE cloth layer.
        3. LDPE Laminated layer.
        4. Acrylic adhesive.
        5. Paper liner.
     3. Performance Requirements: Meets AAMA 711-13; Type A, without primer, Level 3 exposure up to 176 degreesF, and AC 148.
     4. Physical Properties:
        1. Thickness per PSTC 13: 9.4 mils (0.24 mm).
        2. Peel Adhesion per PSTC 101: 136 oz per inch (15 N per cm).
        3. Shear Adhesion per PSTC 107: 39 mils (1.0 mm).
        4. Breaking Strength per PSTC 131: 44.5 lbf per inch (78 N per cm).
        5. Elongation PSTC 131: 17 percent.
        6. Temperature Use Range per MCC Method: Minus 40 to 200 degrees F (4 to 93 degrees C).
     5. Characteristics:
        1. Waterproof.
        2. High dimension stability.
        3. Extremely High weather resistance.
        4. Firm fixing on rough surfaces.
        5. High initial stickiness.
        6. No black speck or stain.
        7. Tear by hands. No cutting tool is required.
        8. Scrapless: Face to face contact of adhesive separates without damaging the adhesive.
        9. Light Weight: 50 to 70 percent lighter than conventional window flashing tape.

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

* 1. OUTDOOR LIGHTING
     1. Basis of Design: Wolf Outdoor Lighting; as manufactured by Wolf Home Products.
        1. Performance Requirements:
           1. Energy efficient and weather resistant.
           2. Bluetooth compatible.
           3. Durable and UV stable.
           4. Rated Life: 50,000 hours.

\*\* NOTE TO SPECIFIER \*\* Delete transformer option not required.

* + - 1. Transformer: Standard.
      2. Transformer: Dimmable.
      3. Low voltage DC power.

\*\* NOTE TO SPECIFIER \*\* Delete style options not required.

* + - 1. Style: Ornamental downward low-voltage post cap light.

\*\* NOTE TO SPECIFIER \*\* Delete size options not required.

* + - * 1. Size: 2 inches (51 mm).
        2. Size: 2-1/2 inches (64 mm).
        3. Size: 4 inches (102 mm).
        4. Size: 4-1/4 inches (108 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - * 1. Color: White.
        2. Color: Black.
        3. Color: Textured Black.
      1. Style: Ornamental low-voltage post cap light.

\*\* NOTE TO SPECIFIER \*\* Delete size options not required.

* + - * 1. Size: 2 inches (51 mm).
        2. Size: 2-1/2 inches (64 mm).
        3. Size: 4 inches (102 mm).
        4. Size: 4-1/4 inches (108 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - * 1. Color: White.
        2. Color: Black.
        3. Color: Textured Black.
      1. Style: Ornamental low-voltage combo post cap light.

\*\* NOTE TO SPECIFIER \*\* Delete size options not required.

* + - * 1. Size: 2 inches (51 mm).
        2. Size: 2-1/2 inches (64 mm).
        3. Size: 4 inches (102 mm).
        4. Size: 4-1/4 inches (108 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - * 1. Color: White.
        2. Color: Black.
        3. Color: Textured Black.
      1. Style: Dome side light scalloped lens.

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - * 1. Color: White.
        2. Color: Black.
      1. Style: Dome side light.

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - * 1. Color: White.
        2. Color: Black.
      1. Style: Side stair light with 2 covers.

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - * 1. Color: White.
        2. Color: Black.
      1. Style: LED strip light.

\*\* NOTE TO SPECIFIER \*\* Delete length option not required.

* + - * 1. Length: 68 inches (1727 mm).
        2. Length: 92 inches (2337 mm).
      1. Style: Ornamental side light.

\*\* NOTE TO SPECIFIER \*\* Delete options not required.

* + - * 1. Color: White.
        2. Color: Black.
      1. Style: 3 inch (76 mm) under-rail light.

\*\* NOTE TO SPECIFIER \*\* Delete options not required.

* + - * 1. Color: White.
        2. Color: Black.
      1. Style: Flush deck light.
    1. Accessories:

\*\* NOTE TO SPECIFIER \*\* Delete accessory options not required.

* + - 1. Power supply, 12 watt.
      2. Power supply, 50 watt.
      3. Dimmer for 12 watt.
      4. Wire harness, 2 foot (610 mm).
      5. Wire harness, 5 foot (1524 mm).
      6. Wire harness, 7 foot (2134 mm).
      7. Wire harness, 9 foot (2743 mm).
      8. Splitter, 2 output.
      9. Splitter, 5 output.
      10. U-channel for LED strip light, white, 68 inch (1727 mm).
      11. U-channel for LED strip light, white, 92 inch (2337 mm).
      12. U-channel for LED strip light, black, 72 inch (1829 mm).
      13. U-channel for LED strip light, black, 96 inch (2438 mm).

1. EXECUTION
   1. EXAMINATION
      1. Do not begin installation until substrates have been properly constructed and prepared.
      2. Verify that substrate and adjacent materials are dry and ready to receive vapor retarder.
      3. For decking and porch flooring installations, ensure surfaces are suitable for installation of decking and that adequate structural support has been provided.
      4. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.
   2. PREPARATION
      1. Clean surfaces thoroughly prior to installation.
      2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
   3. INSTALLATION
      1. Install in accordance with manufacturer's instructions, approved submittals, and in proper relationship with adjacent construction.
      2. Cutting: Use saw capable of miter cuts with a fine-toothed carbide tipped finish trim blade with tooth count as recommended by manufacturer.
      3. Follow manufacturer's recommendations for fastener placement and spacing.
      4. Decking and Porch Flooring:
         1. Install a 1/4 inch (6 mm) bead of adhesive on each joist to minimize expansion and contraction.
         2. Install with embossed or grain side up. Install rim boards with embossed or grain side out.
         3. Fasten tight to joists. Provide shims if there are variations in framing.
         4. Countersink fasteners. Provide necessary clearance when installing the next board.
         5. Cut final boards as required and install as soon as possible after cutting.
         6. Expansion and Contraction: Refer to manufacturers board spacing chart based on temperature at the time of installation.
         7. Install decking with ends staggered over firm bearing. On sloped surfaces, lay decking with tongue upward.
         8. Secure with manufacturer's recommended fastener system.
         9. Install end butts and miters tight.
      5. Railings:
         1. Install in accordance with manufacturer's instructions.
         2. Install all flat railing wood posts to a height of 36 inches (914 mm) above finished floor or deck and check for level and plumb.
         3. Install stair wood posts a minimum of 48 inches (1219 mm) above the tread and check for level and plumb.
      6. Siding:
         1. Install the manufacturer's siding starter strip straight and level line, nailing every 8 to 12 inches (203 to 305 mm) fastening to wall studs as often as possible.
         2. Install siding, and trim in accordance with manufacturer's printed installation instructions.
         3. Provide a minimum of 1/2 inch (13 mm) clearance between siding and any surface that may collect water.
         4. Cut siding face down.
      7. Trim:
         1. Glue all joints between trim pieces to prevent joint separation.
   4. FIELD QUALITY CONTROL
      1. Field Inspection: Coordinate field inspection in accordance with appropriate sections in Division 01.
   5. CLEANING AND PROTECTION
      1. Clean products in accordance with the manufacturer's recommendations.
      2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION