SECTION 07 46 19

STEEL SIDING

Display hidden notes to specifier. (Don't know how? [Click Here](https://www.arcat.com/sd/display_hidden_notes.shtml))

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\*\* NOTE TO SPECIFIER \*\* Quality Edge; Steel siding and accessories.  
This section is based on the products of Quality Edge, which is located at:2712 Walkent Dr.Walker, MI 49544Toll Free Tel: 888-784-0878Tel: 616-735-3833Fax: 616-735-3844Email: [request info (marketing@qualityedge.com)](https://arcat.com/rfi?action=email&company=Quality%252BEdge&message=RE%253A%2520Spec%2520Question%2520(07467qua)%253A%2520&coid=44368&spec=07467qua&rep=&fax=616-735-3844)  
Web: <https://www.qualityedge.com>   
 [ [Click Here](https://arcat.com/company/quality-edge-44368) ] for additional information.  
At Quality Edge, we are passionate about the home renovation, exterior design and building process. We are driven to provide innovative exterior solutions that last a lifetime, so families can spend their time doing the things that they love. Through our smart and sustainable designs, best-in-class products, and attentive customer service, we strive to inspire, educate, and simplify the process of building a new home or improving an existing one.   
Are you looking for stronger materials? A perfect color match? A way to turn your rough sketch into your ultimate solution? Whether it is customizing an existing product or creating something new, Quality Edge is here to listen and ready to respond with innovation, design, execution, and service beyond all expectations. This includes shorter lead times, faster turnaround, and multiple products in a single drop shipment.  
We are a loyal partner to one- and two-step distribution channels, providing exceptional, industry leading products and customer service as we put our products and your ideas into practice for quality solutions that truly give you the edge.

1. GENERAL
   1. SECTION INCLUDES
      1. Steel siding and accessories.
   2. RELATED SECTIONS

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

* + 1. Section 05 40 00 - Cold-Formed Metal Framing.
    2. Section 06 10 00 - Rough Carpentry.
    3. Section 07 27 00 - Air Barriers.
    4. Section 07 60 00 - Flashing and Sheet Metal.
    5. Section 07 90 00 - Joint Protection.
  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 A 653 - Standard Specification for Steel Sheet, Zinc Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvannealed) by the Hot-Dip Process.
       2. ASTM B 117 - Standard Practice for Operating Salt Spray (Fog) Apparatus.
       3. ASTM D 659 - Method of Evaluating Degree of Chalking of Exterior Paints.
       4. ASTM D 822 - Standard Practice for Filtered Open-Flame Carbon-Arc Exposures of Paint and Related Coatings.
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
     2. Product Data: Manufacturer's data sheets on each product to be used, including:
        1. Preparation instructions and recommendations.
        2. Siding materials, underlayment, flashings, fasteners, and accessories.
        3. Dimensions, physical properties, and typical details.
        4. Storage and handling requirements and recommendations.
        5. Installation methods.
     3. Shop Drawings:
        1. Show layout, methods of attachment, provisions for movement, flashing, trim, edge and field conditions, interface with adjacent materials, locations of cutouts or special shapes, existing construction, and details.
        2. Submit overall layout of panels with small scale details, and large scale details of edge conditions, joints, fastener and sealant placement, flashings, penetrations, and special conditions.
        3. Distinguish between factory and field assembled work.

\*\* NOTE TO SPECIFIER \*\* Delete selection samples if colors have already been selected.

* + 1. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns and including the following:
       1. Siding: One of each type, full panel width by 12 inches (300 mm) long.
       2. Fasteners and Accessories: Two of each type, full size, indicating use.
    2. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square representing actual product, color, and patterns.
    3. Installer qualifications.
    4. Closeout submittals:
       1. Maintenance and cleaning instructions.
       2. Warranty.
  1. QUALITY ASSURANCE
     1. Manufacturer Qualifications: Minimum 5 years' experience manufacturing similar products.
     2. Installer Qualifications: Minimum 2 years' experience installing similar products.

\*\* NOTE TO SPECIFIER \*\* Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project 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: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
       1. Finish areas designated by Architect.
       2. Do not proceed with remaining work until workmanship is approved by Architect.
       3. Refinish mock-up area as required to produce acceptable work.
       4. Accepted mock-up may be included in the completed work and will set the standard of acceptance for workmanship and aesthetics for remaining work.
  1. PRE-INSTALLATION MEETINGS
     1. Convene at the Project site minimum two weeks prior to starting work of this section. The General Contractor, Roofing Subcontractor, and major Suppliers shall attend to review the following:
        1. Installation procedures and manufacturer's recommendations.
        2. Safety procedures.
        3. Coordination with work by others.
        4. Product availability.
        5. Preparation, substrates, penetrations, and details.
        6. Project logistics and schedule.
  2. DELIVERY, STORAGE, AND HANDLING
     1. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.
        1. Organize package contents to minimize sorting on site.
        2. Verify quantities and condition immediately upon receipt. Remove damaged products from the site, coordinate with the manufacturer to replace with new materials to meet specified requirements.
     2. Store products off the ground, within manufacturer's temperature and environmental limits, away from moisture, protected from traffic and construction activities. Minimize on-site storage prior to installation.
     3. Handling: Handle materials to avoid damage.
  3. PROJECT CONDITIONS
     1. Field Measurement: Verify field conditions prior to shop drawings or fabrications.
     2. 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.
     3. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.
  4. WARRANTY
     1. Manufacturer's Warranty: Provide manufacturer's lifetime, non-prorated, transferrable warranty including coverage for defects, chalking, fading, rust, and hail damage.

\*\* NOTE TO SPECIFIER \*\* Select warranty durations required. Delete durations not applicable.

* + - 1. Duration for TruCedar Siding: Lifetime (Residential).
      2. Duration for TruCedar Siding: 50 years (Commercial).
      3. Duration for TruCedar Seamless Coil: Lifetime Chalk Fade warranty; 35 years - other components.
      4. Duration for Vesta Siding: Lifetime (Residential).
      5. Duration for Vesta Siding: 50 years (Commercial).

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: Quality Edge, which is located at:2712 Walkent Dr.Walker, MI 49544Toll Free Tel: 888-784-0878Tel: 616-735-3833Fax: 616-735-3844Email: [request info (marketing@qualityedge.com)](https://arcat.com/rfi?action=email&company=Quality%252BEdge&message=RE%253A%2520Spec%2520Question%2520(07467qua)%253A%2520&coid=44368&spec=07467qua&rep=&fax=616-735-3844);Web: <https://www.qualityedge.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.
  1. STEEL SIDING
     1. Steel Siding: TruCedar Steel Siding fabricated from 0.016 inch galvanized steel complying with ASTM A653.
        1. Certifications and Ratings:
           1. Non-Combustible Flame Spread and Smoke Developed Ratings per ASTM E84, ASTM E84-17: Class A.
           2. Structural Performance Rating per ASTM E1592.
           3. Impact Resistance Rating per UL 2218: Class 4.
        2. Performance Requirements:
           1. Tensile Strength: 55,000 psi (379.20 Mpa).
           2. Yield Strength: 33,000 psi (227.52 Mpa).
           3. Adhesion of Film:

No blistering or loss of adhesion after immersion in distilled boiling water for a minimum of 4 hours followed by a minimum 4 hour freeze test.

Finish shall not be removed from cross hatched lines scored 1/8 inch apart after application of number 600 Scotch tape.

* + - * 1. Flexibility:

Reverse Impact: Garner impact tester - 5/8 inch steel ball, 120 inch lbs.

Bending: OT 180 degree bend, 29 gauge steel.

* + - * 1. Elongation: Withstands 25 to 40 percent elongation.
        2. Humidity: Panels given 90 degree bend and subjected to 100 percent Relative Humidity at 100 degrees F, +/- 5 degrees F (38 degrees C, +/- 2.8 degrees C) for 1,000 hours; no blistering, cracking, loss of gloss, or peeling and no softening after 24 hour recovery.
        3. Salt Spray: When subject to a 5 percent salt solution per ASTM B117, shall withstand 1,000 hours exposure without blistering or loss of adhesion. Quality Edge warrants installations further than 1,500 ft (457.2 m) from the ocean.
        4. Weatherometer: Tested in accordance with ASTM D822-57T after period of 2,000 actual light hours with humidity control shall show no cracking, crazing, or loss of adhesion.

Chalking: No greater than ASTM D659.44 No. 10 rating, based on a scale of 10 being excellent.

Color Change: No more than 8 Hunter E units.

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

* + - * 1. TruCedar CarbonTech60 Siding Profiles:

\*\* NOTE TO SPECIFIER \*\* Delete profiles not required. Solid Colors available in Double 4 inch (102 mm), Single 6 and 8 inch (152 and 203 mm), Single 6 inch (152 mm) Dutch Lap, and Board and Batten 6 and 10 inch. Foam backing is optional. Delete if not required.

Profile: Single 6 inch (152 mm).

Foam backing.

Profile: Single 6 inch (152 mm) Dutch Lap.

Foam backing.

Profile: Double 4 inch (102 mm).

Profile: Single 8 inch (203 mm).

Profile: 6 inch (152 mm) Board and Batten. Solid.

Profile: 6 inch (152 mm) Board and Batten. Woodgrain.

Profile: 10 inch (254 mm) Board and Batten. Solid.

Profile: 10 inch (254 mm) Board and Batten. Woodgrain.

Profile: 9.25 inch (235 mm) Seamless Coil.

Profile: 10.77 inch (274 mm) Seamless Coil.

Profile: 13.25 inch (337 mm)Seamless Coil.

Profile: 14.77 inch (375 mm) Seamless Coil.

Finish: CarbonTech 60 and Sunmaster 50.

\*\* NOTE TO SPECIFIER \*\* Select required colors. Delete colors not required.

Solid Color: To be selected by Architect.

Solid Color: As indicated on Drawings.

Solid Color: Bennington Beige 401.

Solid Color: Cottage Red 411.

Solid Color: Eggshell 503.

Solid Color: Foothill Blue 405.

Solid Color: Gray Dusk 415.

Solid Color: Great Water 460.

Solid Color: Harbor Mist 461.

Solid Color: Herring Bone 819.

Solid Color: Ironstone 414.

Solid Color: Norwood 509.

Solid Color: Pewter 805.

Solid Color: Ripe Olive 307.

Solid Color: Silver Lining 462.

Solid Color: Statuary Bronze 425.

Solid Color: Sycamore 409.

Solid Color: Thatch 410.

Solid Color: White 280.

\*\* NOTE TO SPECIFIER \*\* HD Woodgrain Colors available in Double 4 inch (102 mm). Single 6 and 8 inch (203 mm), Single 6 inch (152 mm) Dutch Lap, Board and Batten 6 and 10 inch.

HD2 Woodgrain Color: To be selected by Architect.

HD2 Woodgrain Color: As indicated on Drawings.

HD2 Woodgrain Color: Birch 417.

HD2 Woodgrain Color: Captiva M12.

HD2 Woodgrain Color: Cedar 109.

HD2 Woodgrain Color: Cider Mill M16.

HD2 Woodgrain Color: English Saddle M17.

HD2 Woodgrain Color: Mountain Laurel M18.

HD2 Woodgrain Color: Napa Vine M15.

HD2 Woodgrain Color: Spruce 416.

HD2 Woodgrain Color: Timber Ash 106.

HD2 Woodgrain Color: Weathered Wood 108.

* + - * 1. TruCedar Shake Sidewall Panel:

Profile: Shake Sidewall.

\*\* NOTE TO SPECIFIER \*\* Select required colors. Delete colors not required.

Finish: PVDF Tri-Pigment Reflective Paint System

HD3 Woodgrain Color: To be selected by Architect.

HD3 Woodgrain Color: As indicated on Drawings.

HD3 Woodgrain Color: Cedar 109.

HD3 Woodgrain Color: Timber Ash 106.

HD3 Woodgrain Color: Weathered Wood 108.

\*\* NOTE TO SPECIFIER \*\* Delete steel siding accessories if paragraph is not required.

* + - 1. Steel Siding Accessories:

\*\* NOTE TO SPECIFIER \*\* Delete any accessories not required.

* + - * 1. Corner Posts:

\*\* NOTE TO SPECIFIER \*\* Select required profiles. Delete profiles not required.

One-Piece Outside Corner Post:

Exposed Size: 3-3/4 x 3-3/4 inches (95 x 95 mm).

Two-Piece Outside Corner Post - Cap and Base:

Exposed Size: 3-3/4 x 3-3/4 inches (95 x 95 mm).

\*\* NOTE TO SPECIFIER \*\* Select required colors. Delete colors not required.

Solid Color: To be selected by Architect.

Solid Color: As indicated on Drawings.

Solid Color: Bennington Beige 401.

Solid Color: Cottage Red 411.

Solid Color: Foothill Blue 405.

Solid Color: Gray Dusk 415.

Solid Color: Ironstone 414.

Solid Color: Norwood 509.

Solid Color: Pewter 805.

Solid Color: Sycamore 409.

Solid Color: Thatch 410.

Solid Color: White 280.

HD Woodgrain Color: To be selected by Architect.

HD Woodgrain Color: As indicated on Drawings.

HD Woodgrain Color: Birch 417.

HD Woodgrain Color: Captiva M12.

HD Woodgrain Color: Cedar 109.

HD Woodgrain Color: Cider Mill M16.

HD Woodgrain Color: English Saddle M17.

HD Woodgrain Color: Mountain Laurel M18.

HD Woodgrain Color: Napa Vine M18.

HD Woodgrain Color: Spruce 416.

HD Woodgrain Color: Timber Ash 106.

HD Woodgrain Color: Weathered Wood 108.

* + - * 1. Inside Corner Block:

\*\* NOTE TO SPECIFIER \*\* Select required colors. Delete colors not required.

Solid Color: To be selected by Architect.

Solid Color: As indicated on Drawings.

Solid Color: Bennington Beige 401.

Solid Color: Cottage Red 411.

Solid Color: Foothill Blue 405.

Solid Color: Gray Dusk 415.

Solid Color: Ironstone 414.

Solid Color: Norwood 509.

Solid Color: Pewter 805.

Solid Color: Sycamore 409.

Solid Color: Thatch 410.

Solid Color: White 280.

HD Woodgrain Color: To be selected by Architect.

HD Woodgrain Color: As indicated on Drawings.

HD Woodgrain Color: Birch 417.

HD Woodgrain Color: Captiva M12.

HD Woodgrain Color: Cedar 109.

HD Woodgrain Color: Cider Mill M16.

HD Woodgrain Color: English Saddle M17.

HD Woodgrain Color: Mountain Laurel M18.

HD Woodgrain Color: Napa Vine M18.

HD Woodgrain Color: Spruce 416.

HD Woodgrain Color: Timber Ash 106.

HD Woodgrain Color: Weathered Wood 108.

* + - * 1. Batten Trim:"

\*\* NOTE TO SPECIFIER \*\* Select required colors. Delete colors not required.

Solid Color: To be selected by Architect.

Solid Color: As indicated on Drawings.

Solid Color: Bennington Beige 401.

Solid Color: Cottage Red 411.

Solid Color: Foothill Blue 405.

Solid Color: Gray Dusk 415.

Solid Color: Ironstone 414.

Solid Color: Norwood 509.

Solid Color: Pewter 805.

Solid Color: Sycamore 409.

Solid Color: Thatch 410.

Solid Color: White 280.

HD Woodgrain Color: To be selected by Architect.

HD Woodgrain Color: As indicated on Drawings.

HD Woodgrain Color: Birch 417.

HD Woodgrain Color: Captiva M12.

HD Woodgrain Color: Cedar 109.

HD Woodgrain Color: Cider Mill M16.

HD Woodgrain Color: English Saddle M17.

HD Woodgrain Color: Mountain Laurel M18.

HD Woodgrain Color: Napa Vine M18.

HD Woodgrain Color: Spruce 416.

HD Woodgrain Color: Timber Ash 106.

HD Woodgrain Color: Weathered Wood 108.

* + - * 1. Z-Flashing:
        2. Brick Ledge Flashing: Mill finish.
        3. Drip Cap: Mill finish.
        4. Fascia:

Size: 6 inch (152 mm) TruCedar Fascia, 6 x 7/8 inches (152 x 22 mm).

Size: 8 inch (203 mm) TruCedar Fascia, 8 x 7/8 inches (203 x 22 mm).

\*\* NOTE TO SPECIFIER \*\* Select required colors. Delete colors not required.

Solid Color: To be selected by Architect.

Solid Color: As indicated on Drawings.

Solid Color: Bennington Beige 401.

Solid Color: Cottage Red 411.

Solid Color: Foothill Blue 405.

Solid Color: Gray Dusk 415.

Solid Color: Ironstone 414.

Solid Color: Norwood 509.

Solid Color: Pewter 805.

Solid Color: Sycamore 409.

Solid Color: Thatch 410.

Solid Color: White 280.

HD Woodgrain Color: To be selected by Architect.

HD Woodgrain Color: As indicated on Drawings.

HD Woodgrain Color: Birch 417.

HD Woodgrain Color: Captiva M12.

HD Woodgrain Color: Cedar 109.

HD Woodgrain Color: Cider Mill M16.

HD Woodgrain Color: English Saddle M17.

HD Woodgrain Color: Mountain Laurel M18.

HD Woodgrain Color: Napa Vine M18.

HD Woodgrain Color: Spruce 416.

HD Woodgrain Color: Timber Ash 106.

HD Woodgrain Color: Weathered Wood 108.

* + - * 1. J-Channel:

Size: 3/4 inch J-Channel, 3/4 x 1.44 inch (19 x 37 mm) with 3/4 inch (19 mm) return.

Size: 1 inch J-Channel, 1 x 1.44 inch (25 x 37 mm) with 3/4 inch (19 mm) return.

\*\* NOTE TO SPECIFIER \*\* Select required colors. Delete colors not required.

Solid Color: To be selected by Architect.

Solid Color: As indicated on Drawings.

Solid Color: Bennington Beige 401.

Solid Color: Cottage Red 411.

Solid Color: Foothill Blue 405.

Solid Color: Gray Dusk 415.

Solid Color: Ironstone 414.

Solid Color: Norwood 509.

Solid Color: Pewter 805.

Solid Color: Sycamore 409.

Solid Color: Thatch 410.

Solid Color: White 280.

HD Woodgrain Color: To be selected by Architect.

HD Woodgrain Color: As indicated on Drawings.

HD Woodgrain Color: Birch 417.

HD Woodgrain Color: Captiva M12.

HD Woodgrain Color: Cedar 109.

HD Woodgrain Color: Cider Mill M16.

HD Woodgrain Color: English Saddle M17.

HD Woodgrain Color: Mountain Laurel M18.

HD Woodgrain Color: Napa Vine M18.

HD Woodgrain Color: Spruce 416.

HD Woodgrain Color: Timber Ash 106.

HD Woodgrain Color: Weathered Wood 108.

* + - * 1. L-Channel:

Size: 5/8 inch L-Channel, 5/8 x 1-5/8 inch (16 x 41 mm).

\*\* NOTE TO SPECIFIER \*\* Select required colors. Delete colors not required.

Solid Color: To be selected by Architect.

Solid Color: As indicated on Drawings.

Solid Color: Bennington Beige 401.

Solid Color: Cottage Red 411.

Solid Color: Foothill Blue 405.

Solid Color: Gray Dusk 415.

Solid Color: Ironstone 414.

Solid Color: Norwood 509.

Solid Color: Pewter 805.

Solid Color: Sycamore 409.

Solid Color: Thatch 410.

Solid Color: White 280.

HD Woodgrain Color: To be selected by Architect.

HD Woodgrain Color: As indicated on Drawings.

HD Woodgrain Color: Birch 417.

HD Woodgrain Color: Captiva M12.

HD Woodgrain Color: Cedar 109.

HD Woodgrain Color: Cider Mill M16.

HD Woodgrain Color: English Saddle M17.

HD Woodgrain Color: Mountain Laurel M18.

HD Woodgrain Color: Napa Vine M18.

HD Woodgrain Color: Spruce 416.

HD Woodgrain Color: Timber Ash 106.

HD Woodgrain Color: Weathered Wood 108.

* + - * 1. Starter Strip:

Thickness: 0.0155 inches (0.394 mm).

\*\* NOTE TO SPECIFIER \*\* Select required profiles. Delete profiles not required.

3 inch Starter Strip.

Total Length: 10 ft (3.048 m); Total Width: 2-1/2 Inches (64 mm).

3-1/2 inch Starter Strip.

Total Length: 10 ft (3.048 m); Total Width: 3 Inches (76 mm).

4 inch (102 mm) Starter Strip.

Total Length: 10 ft (3.048 m); Total Width: 3-1/2 Inches (89 mm).

4 inch (102 mm) Starter Strip.

Total Length: 10 ft (3.048 m); Total Width: 4 inches (102 mm).

6 inch (152 mm) Starter Strip.

Total Length: 10 ft (3.048 m); Total Width: 6 Inches (152 mm).

2-1/2 inch TruShake Starter Strip.

Total Length: 10 ft (3.048 m); Total Width: 2-1/2 Inches (64 mm).

TruCedar Embossed Trim Coil:

\*\* NOTE TO SPECIFIER \*\* Select required colors. Delete colors not required.

Solid Color: To be selected by Architect.

Solid Color: As indicated on Drawings.

Solid Color: Bennington Beige 401.

Solid Color: Cottage Red 411.

Solid Color: Foothill Blue 405.

Solid Color: Gray Dusk 415.

Solid Color: Ironstone 414.

Solid Color: Norwood 509.

Solid Color: Pewter 805.

Solid Color: Sycamore 409.

Solid Color: Thatch 410.

Solid Color: White 280.

HD Woodgrain Color: To be selected by Architect.

HD Woodgrain Color: As indicated on Drawings.

HD Woodgrain Color: Birch 417.

HD Woodgrain Color: Captiva M12.

HD Woodgrain Color: Cedar 109.

HD Woodgrain Color: Cider Mill M16.

HD Woodgrain Color: English Saddle M17.

HD Woodgrain Color: Mountain Laurel M18.

HD Woodgrain Color: Napa Vine M18.

HD Woodgrain Color: Spruce 416.

HD Woodgrain Color: Timber Ash 106.

HD Woodgrain Color: Weathered Wood 108.

* + - * 1. Undersill:

Size: 1.44 x 0.13 x 0.66 inches. (37 x 3 x 17 mm)

\*\* NOTE TO SPECIFIER \*\* Select required colors. Delete colors not required.

Solid Color: To be selected by Architect.

Solid Color: As indicated on Drawings.

Solid Color: Bennington Beige 401.

Solid Color: Cottage Red 411.

Solid Color: Foothill Blue 405.

Solid Color: Gray Dusk 415.

Solid Color: Ironstone 414.

Solid Color: Norwood 509.

Solid Color: Pewter 805.

Solid Color: Sycamore 409.

Solid Color: Thatch 410.

Solid Color: White 280.

HD Woodgrain Color: To be selected by Architect.

HD Woodgrain Color: As indicated on Drawings.

HD Woodgrain Color: Birch 417.

HD Woodgrain Color: Captiva M12.

HD Woodgrain Color: Cedar 109.

HD Woodgrain Color: Cider Mill M16.

HD Woodgrain Color: English Saddle M17.

HD Woodgrain Color: Mountain Laurel M18.

HD Woodgrain Color: Napa Vine M18.

HD Woodgrain Color: Spruce 416.

HD Woodgrain Color: Timber Ash 106.

HD Woodgrain Color: Weathered Wood 108.

* + - * 1. Batten Trim:

\*\* NOTE TO SPECIFIER \*\* Select required colors. Delete colors not required.

Solid Color: To be selected by Architect.

Solid Color: As indicated on Drawings.

Solid Color: Bennington Beige 401.

Solid Color: Cottage Red 411.

Solid Color: Foothill Blue 405.

Solid Color: Gray Dusk 415.

Solid Color: Ironstone 414.

Solid Color: Norwood 509.

Solid Color: Pewter 805.

Solid Color: Sycamore 409.

Solid Color: Thatch 410.

Solid Color: White 280.

HD Woodgrain Color: To be selected by Architect.

HD Woodgrain Color: As indicated on Drawings.

HD Woodgrain Color: Birch 417.

HD Woodgrain Color: Captiva M12.

HD Woodgrain Color: Cedar 109.

HD Woodgrain Color: Cider Mill M16.

HD Woodgrain Color: English Saddle M17.

HD Woodgrain Color: Mountain Laurel M18.

HD Woodgrain Color: Napa Vine M18.

HD Woodgrain Color: Spruce 416.

HD Woodgrain Color: Timber Ash 106.

HD Woodgrain Color: Weathered Wood 108.

\*\* NOTE TO SPECIFIER \*\* Delete shake sidewall accessories if paragraph is not required.

* + - 1. Shake Sidewall Accessories
         1. One-Piece Outside Corner Post:

\*\* NOTE TO SPECIFIER \*\* Select required colors. Delete colors not required.

HD3 Woodgrain Color: To be selected by Architect.

HD3 Woodgrain Color: As indicated on Drawings.

HD3 Woodgrain Color: Cedar 109.

HD3 Woodgrain Color: Timber Ash 106.

HD3 Woodgrain Color: Weathered Wood 108.

* + - * 1. Undersill: Mill finish.
        2. J-Channel.

\*\* NOTE TO SPECIFIER \*\* Select required colors. Delete colors not required.

HD3 Woodgrain Color: To be selected by Architect.

HD3 Woodgrain Color: As indicated on Drawings.

HD3 Woodgrain Color: Cedar 109.

HD3 Woodgrain Color: Timber Ash 106.

HD3 Woodgrain Color: Weathered Wood 108.

* + - * 1. Trim Coil

\*\* NOTE TO SPECIFIER \*\* Select required colors. Delete colors not required.

HD3 Woodgrain Color: To be selected by Architect.

HD3 Woodgrain Color: As indicated on Drawings.

HD3 Woodgrain Color: Cedar 109.

HD3 Woodgrain Color: Timber Ash 106.

HD3 Woodgrain Color: Weathered Wood 108.

* + - * 1. Starter Strip: 4 inches (102 mm). Mill finish.
        2. Retention clips.
    1. Steel Siding: Vesta Steel Siding. Has unique, built-in breathing ducts that promote aircirculation between joint seams and behind the building surface.
       1. Certifications and Ratings:
          1. Non-Combustible Flame Spread and Smoke Developed Ratings per ASTM E84, ASTM E84-17: Class A.
          2. Structural Performance Rating per ASTM E1592.
          3. Impact Resistance Rating per UL 2218: Class 4.
          4. R703.3 - Wall Covering Nominal Thickness and Attachments: Meets or exceeds.
       2. Performance Requirements:
          1. Tensile Strength: 55,000 psi (379.20 Mpa).
          2. Yield Strength: 33,000 psi (227.52 Mpa).
          3. Profile: Supports vertical or horizontal installation.
          4. Coatings: No VOCs. Lead free.
          5. Adhesion of Film:

No blistering or loss of adhesion after immersion in distilled boiling water for a minimum of 4 hours followed by a minimum 4 hour freeze test.

Finish shall not be removed from cross hatched lines scored 1/8 inch (3 mm) apart after application of number 600 Scotch tape.

* + - * 1. Flexibility:

Reverse Impact: Garner impact tester - 5/8 inch (16 mm) steel ball, 120 inch-lbs (13.6 n-m).

Bending: OT 180 degree bend, 29 gauge steel.

* + - * 1. Elongation: Withstands 25-40 percent elongation.
        2. Humidity: Panels given 90 degree bend and subjected to 100 percent Relative Humidity at 100 degrees F (+/- 5 degrees F) for 1,000 hours; no blistering, cracking, loss of gloss, or peeling and no softening after 24 hour recovery.
        3. Salt Spray: When subject to a 5 percent salt solution per ASTM B117, shall withstand 1,000 hours exposure without blistering or loss of adhesion. Quality Edge warrants installations further than 1,500 feet from the ocean.
        4. Weatherometer: Tested in accordance with ASTM D822-57T after period of 2,000 actual light hours with humidity control shall show no cracking, crazing, or loss of adhesion.

Chalking: No greater than ASTM D659.44 No. 10 rating, based on a scale of 10 being excellent.

Color Change: No more than 8 Hunter E units.

* + - 1. Panel Profile, Woodgrain: Face: 5 inch (127 mm). Plank Length: 8 ft (2.438 m).
      2. Panel Profile, Solid: 5 inch (127 mm). Plank Length: 12 ft (3.658 m).
      3. Material: Steel.
         1. Panel Thickness: 0.020 inches (0.51 mm).
         2. Accessories Thickness: 0.016 inches (0.41 mm).
      4. Finish: Solid. Kynar; 50 percent PVDF, and CarbonTech90.
         1. Color: 463 Coal.
         2. Color: 462 Silver Lining.
         3. Color: 503 Eggshell.
         4. Color: 414 Ironstone.
         5. Color: 464 Fiddlehead.
         6. Color: 465 Sea Glass.
         7. Color: 460 Great Water.
         8. Color: 466 Tourmaline.
         9. Color: 280 White.
      5. Finish: Wood grain. Panels to have 6 unique grain configurations to more resemble real wood. Kynar 500; 70 percent PVDF, and CarbonTech90.
         1. Color: 483 Sand Dollar.
         2. Color: 480 Autumn Thistle.
         3. Color: 481 Driftwood.
         4. Color: 482 Gilded Grain.
      6. Accessories:
         1. Starter trim.
         2. Outside corner post.
         3. Large outside corner post.
         4. Inside corner post.
         5. J-Channel.
         6. L-Flashing.
         7. Plank drip cap.
         8. Trim coil. 14.77 inches (375 mm) wide x 30 ft (9.144m).
         9. Support trim.
         10. Utility trim.
         11. Vented plank soffit.
         12. Fascia: 6 inch (152 mm) with mounting brackets.
         13. Fascia: 8 inches (203 mm) with mounting brackets.
         14. Brink ledge flashing.
         15. H-channel.
  1. SIDING AND TRIM ACCESSORIES
     1. Full Line:
        1. Window and Door Trim:
           1. Brick Mold: BK10: Aluminum 0.024 inch (0.61 mm).
           2. Brink Mold: Andersen Brick. AB: Aluminum 0.019 inch (0.48 mm).
           3. Casing: Flat. FC10: Aluminum 0.024 inch (0.61 mm).
           4. Coating: Q800 TuffTech.

Color: To be selected by Architect.

Color: As indicated on Drawings.

Color: 007 Matte Copper Penny.

Color: 200 Cactus.

Color: 204 Granit.

Color: 280 White.

Color: 301 Dragonfly.

Color: 302 Florentine Gold.

Color: 303 Morning Fog.

Color: 304 Pomegranate.

Color: 305 Thunder Cloud.

Color: 306 Quartz.

Color: 307 Ripe Olive.

Color: 327 Desert Tan.

Color: 414 Ironstone.

Color: 424 Slat.

Color: 460 Great Water.

Color: 461 Harbor Mist.

Color: 462 Silver Lining.

Color: 502 Brown.

Color: 503 Eggshell.

Color: 505 Green.

Color: 507 Mocha.

Color: 508 Musket.

Color: 509 Norwood.

Color: 511 Terratone.

Color: 518 Black.

Color: 521 Navy.

Color: 522 Forest.

Color: 523 Snowmist.

Color: 604 Wineberry.

Color: 605 Eldridge Gray.

Color: 606 Cozy Cottage.

Color: 805 Pewter.

Color: 807 Clay.

Color: 809 Wicker.

Color: 819 Herringbone.

Color: 827 Champagne.

* + - 1. Drip Cap: Available in multiple size and thickness combinations.
         1. Material: Aluminum. Length: 10 ft (3.048 m).

Thickness: 0.011 inch (0.28 mm).

Thickness: 0.019 inch (0.48 mm).

Available Sizes: 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1, 1-1/8, 1-1/4, 1-3/8, 1-1/2, 1-5/8, 1-3/4, 2, 2-1/2, and 3 inches (9.5, 11, 13, 16, 19, 22, 25, 28, 32, 35, 38, 41, 44, 51, 64, and 76 mm).

Finish: Mill.

Finish: TuffTech.

Color: To be selected by Architect.

Color: As indicated on Drawings.

Color: 007 Matte Copper Penny.

Color: 177 Sandy Beige.

Color: 200 Cactus.

Color: 204 Granite.

Color: 280 White.

Color: 301 Dragonfly.

Color: 302 Florentine Gold.

Color: 303 Morning Fog.

Color: 304 Pomegranate.

Color: 305 Thunder Cloud.

Color: 306 Quartz.

Color: 307 Ripe Olive.

Color: 327 Desert Tan.

Color: 414 Ironstone.

Color: 424 Slate.

Color: 460 Great Water.

Color: 461 Harbor Mist.

Color: 462 Silver Lining.

Color: 502 Brown.

Color: 503 Eggshell.

Color: 507 Mocha.

Color: 508 Musket.

Color: 509 Norwood.

Color: 511 Terratone.

Color: 518 Black.

Color: 521 Navy.

Color: 522 Forest.

Color: 523 Snowmist.

Color: 604 Wineberry.

Color: 605 Eldridge Gray.

Color: 606 Cozy Cottage.

Color: 805 Pewter.

Color: 807 Clay.

Color: 809 Wicker.

Color: 819 Herringbone.

Color: 827 Champagne.

* + - * 1. Material: Steel. Length: 10 ft (3.048 m). Thickness: 0.013 inches (0.33 mm).

Available Sizes: 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1, 1-1/8, 1-1/4, 1-3/8, 1-1/2, 1-5/8, 1-3/4, 2, 2-1/2, and 3 inches (9.5, 11, 13, 16, 19, 22, 25, 28, 32, 35, 38, 41, 44, 51, 64, and 76 mm).

Finish: Mill.

Finish: TuffTech.

Color: To be selected by Architect.

Color: As indicated on Drawings.

Color: 502 Brown.

Color: 511 Terratone.

Color: 518 Black.

Color: 523 Snowmist.

Color: 807 Clay.

* + - 1. Flashing:
         1. Roof-to-Wall. Material: Aluminum. Length: 10 ft (3.048 m). Thickness: 0.019 inch (0.48).

Size: 3.00 x 1.06 x 1.50 inches (76 x 27 x 38 mm).

Size: 4.86 x 0.30 inches (123 x 8 mm).

Coating: TuffTech.

Color: 177 Sandy Beige.

Color: 280 White.

Color: 327 Desert Tan.

Color: 331 Iron Gray.

Color: 333 Soft Green.

Color: 335 Tuscan Gold.

Color: 405 Boothbay Blue.

Color: 410 Timber Bark.

Color: 411 Countrylane Red.

Color: 509 Norwood.

Color: 516 Sandstone Beige.

Color: 606 Cozy Cottage.

Color: 629 Deep Ocean.

Color: 630 Gray Slate.

Color: 632 Rich Espresso.

Color: 770 Pearl Gray.

Color: 782 Chestnut Brown.

Color: 805 Pewter.

Color: 807 Clay.

Color: 819 Herringbone.

* + - * 1. Z-Flashing: Material: Aluminum. Length: 10 ft (3.048 m). Thickness: 0.019 inch (0.48 mm).

Size: 3.00 x 0.38 x 0.31 inches (76 x 10 x 8 mm).

Size: 3.05 x 1.06 x 1.00 inches (77 x 27 x 25 mm).

Size: 3.00 x 1.38 x 0.30 inches (76 x 35 x 8 mm).

Coating: TuffTech.

Color: 177 Sandy Beige.

Color: 280 White.

Color: 327 Desert Tan.

Color: 331 Iron Gray.

Color: 333 Soft Green.

Color: 335 Tuscan Gold.

Color: 405 Boothbay Blue.

Color: 410 Timber Bark.

Color: 411 Countrylane Red.

Color: 509 Norwood.

Color: 516 Sandstone Beige.

Color: 606 Cozy Cottage.

Color: 629 Deep Ocean.

Color: 630 Gray Slate.

Color: 632 Rich Espresso.

Color: 770 Pearl Gray.

Color: 782 Chestnut Brown.

Color: 805 Pewter.

Color: 807 Clay.

Color: 819 Herringbone.

* + - 1. H-Mold: Aluminum 0.019 inch (0.48 mm).
         1. Finish: Woodgrain.
         2. Finish: Smooth.
         3. Lengths: 5, 6, 7, 8, and 11 inches (127, 152, 178, 203 mm)
         4. Coating: TuffTech.
         5. Color: 277
         6. Color: 350 Beige.
         7. Color: 351 Biscuit.
         8. Color: 352 Bungalow.
         9. Color: 353 Cinnabar.
         10. Color: 354 Clay.
         11. Color: 355 Pelican.
         12. Color: 356 Pewter Green.
         13. Color: 357 Platinum.
         14. Color: 358 Seal.
         15. Color: 359 Tan.
         16. Color: 360 Granite.
         17. Color: 361 Light Gray.
         18. Color: 363 Smokey Ash.
         19. Color: 364 Mountain Lake.
         20. Color: 414 Ironstone.
         21. Color: 503 Eggshell.
         22. Color: 507 Mocha.
         23. Color: 508 Musket.
         24. Color: 509 Norwood.
         25. Color: 511 Terratone.
         26. Color: 518 Black.
         27. Color: 523 Snowmist.
         28. Color: 655 Chocolate.
         29. Color: 656 Clove.
         30. Color: 657 Midnight.
         31. Color: 767 Olive.
         32. Color: 805 Pewter.
      2. Window Flashing: Truwrap. WF4X100: Tape Material.
      3. Utility Trim: UT10. Aluminum. Length: 10 ft (3.048 m). Thickness: 0.019 inch (0.48 mm).
         1. Coating: TuffTech.
         2. Color: 007 Matte Copper Penny.
         3. Color: 177 Sandy Beige.
         4. Color: 200 Cactus.
         5. Color: 204 Granite.
         6. Color: 280 White.
         7. Color: 301 Dragonfly.
         8. Color: 302 Florentine Gold.
         9. Color: 303 Morning Fog.
         10. Color: 304 Pomegranate.
         11. Color: 305 Thunder Cloud.
         12. Color: 306 Quartz.
         13. Color: 307 Ripe Olive.
         14. Color: 327 Desert Tan.
         15. Color: 414 Ironstone.
         16. Color: 424 Slate.
         17. Color: 460 Great Water.
         18. Color: 461 Harbor Mist.
         19. Color: 462 Silver Lining.
         20. Color: 502 Brown.
         21. Color: 503 Eggshell.
         22. Color: 505 Green.
         23. Color: 507 Mocha.
         24. Color: 508 Musket.
         25. Color: 509 Norwood.
         26. Color: 511 Terratone.
         27. Color: 518 Black.
         28. Color: 521 Navy.
         29. Color: 522 Forest.
         30. Color: 523 Snowmist.
         31. Color: 604 Wineberry.
         32. Color: 605 Eldridge Gray.
         33. Color: 606 Cozy Cottage.
         34. Color: 805 Pewter.
         35. Color: 807 Clay.
         36. Color: 809 Wicker.
         37. Color: 819 Herringbone.
         38. Color: 827 Champagne.
      4. Utility Molding: UM10. Aluminum. Length: 10 ft (3.048 m). Thickness: 0.019 inch (0.48 mm).
         1. Coating: TuffTech.
         2. Color: 007 Matte Copper Penny.
         3. Color: 177 Sandy Beige.
         4. Color: 200 Cactus.
         5. Color: 204 Granite.
         6. Color: 280 White.
         7. Color: 301 Dragonfly.
         8. Color: 302 Florentine Gold.
         9. Color: 303 Morning Fog.
         10. Color: 304 Pomegranate.
         11. Color: 305 Thunder Cloud.
         12. Color: 306 Quartz.
         13. Color: 307 Ripe Olive.
         14. Color: 327 Desert Tan.
         15. Color: 414 Ironstone.
         16. Color: 424 Slate.
         17. Color: 460 Great Water.
         18. Color: 461 Harbor Mist.
         19. Color: 462 Silver Lining.
         20. Color: 502 Brown.
         21. Color: 503 Eggshell.
         22. Color: 505 Green.
         23. Color: 507 Mocha.
         24. Color: 508 Musket.
         25. Color: 509 Norwood.
         26. Color: 511 Terratone.
         27. Color: 518 Black.
         28. Color: 521 Navy.
         29. Color: 522 Forest.
         30. Color: 523 Snowmist.
         31. Color: 604 Wineberry.
         32. Color: 605 Eldridge Gray.
         33. Color: 606 Cozy Cottage.
         34. Color: 805 Pewter.
         35. Color: 807 Clay.
         36. Color: 809 Wicker.
         37. Color: 819 Herringbone.
         38. Color: 827 Champagne.
      5. Starter Strips: Length: 10 ft (3.048 m). Coating: Galvanized G40 plus.
         1. Starter Strip 3 inch (76 mm): 3SSA: Aluminum 0.019 inch (0.48 mm).
         2. Starter Strip 3 inch (76 mm): 3SSGAL: Steel 0.0155 inch.
         3. Starter Strip 3.5 inch (89 mm): 3.5SSA: Aluminum 0.019 inch (0.48 mm).
         4. Starter Strip 3.5 inch (89 mm): 3.5SSGAL: Steel 0.0155 inch (0.39 mm).
         5. Starter Strip 4 inch (102 mm): 4SSGAL: Steel 0.0155 inch (0.39 mm).
         6. Starter Strip 6 inch (152 mm): 4SSGAL: Steel 0.0155 inch (0.39 mm).
         7. Starter Strip J: PSSJ: Steel 0.0155 inch (0.39 mm).
         8. Starter Strip Nail Lite: NLS. Aluminum 0.019 inch (0.48 mm).
         9. Starter Strip Trushake: TSSSGAL. Steel 0.0155 inch (0.39 mm).
         10. Starter Strip Rigid Stack: RSS. Steel 0.013 inch (0.33 mm).
         11. Starter Strip Thermal Wall: 4GALINSSS. Steel 0.0155 inch (0.39 mm).
         12. Starter Strip Profoam: 4GALPFISS. Steel 0.0155 inch (0.39 mm).
         13. Starter Strip Shake: SSS. Steel 0.0155 inch (0.39 mm).
         14. Starter Strip Cedarmax. CMAXSS: Steel 0.0155 inch (0.39 mm).

1. EXECUTION
   1. EXAMINATION
      1. Examine substrates with installer present. Inspect for tolerances and conditions that could adversely affect installation.
      2. Do not begin installation until substrates have been properly prepared.
      3. If substrate preparation is the responsibility of another installer, notify Architect 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 and shop drawings, which must be always available on the Project site for inspection.
         1. Attach siding in place using manufacturers recommended fasteners, sealants, and adhesives as indicated on shop drawings.
         2. Cut siding as recommended by manufacturer.
         3. Prevent galvanic action by treating faces and edges in contact with dissimilar metals as recommended by the manufacturer.
         4. Install siding with positive anchoring to the building and provide for thermal expansion.
         5. Provide expansion space as recommended by manufacturer.
         6. Coordinate installation with flashings and other components.
         7. Provide concealed fasteners except where approved on shop drawings.
         8. Set units true to line and levels indicated on the drawings.
   4. FIELD QUALITY CONTROL
      1. Inspect units as they are installed. Do not install cracked, broken, twisted, or damaged units.
      2. Do not scratch or mar installed units. Units damaged during installation shall be immediately removed and replaces, remove damaged units from the project site.
      3. Inspect complete installation to ensure that it is weather tight in accordance with the manufacturer's instructions.
   5. CLEANING
      1. Remove excess materials and debris from the project site.
   6. PROTECTION
      1. Protect installed products until completion of project.
      2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION