

Architectural Specifications: Siding
SECTION 07 46 00 Composite Siding

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Siding panels
- B. Accessories and trim

1.2 RELATED SECTIONS

- A. Section 06 10 00 – Rough Carpentry; Framing and Wall Sheathing.
- B. Section 06 65 00 – Plastic Trim
- C. Section 07 40 00 – Roofing and Siding Panels

1.3 REFERENCES

- A. ASTM D 256 – Test Method for Determining the Pendulum Impact Resistance of Notched Specimens of Plastics
- B. ASTM D 648 – Standard Test Method for Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position
- C. ASTM D 696 – Test Method for Coefficient of Linear Expansion of Plastics
- D. ASTM D 2244 – Standard Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates
- E. ASTM D 3679 – Specification for Rigid Poly Vinyl Chloride (PVC) Siding
- F. ASTM D 1761 – Standard Test Methods for Mechanical Fasteners in Wood
- G. ASTM D 5206 – Standard Test Method for Wind load Resistance of Rigid Plastic Siding
- H. ASTM D 635 – Test Method for Rate of Burning and/or Extent and Time of Burning of Self Supported Plastics in a Horizontal Position
- I. ASTM D 1929 – Standard Test Method for Determining Ignition Temperature of Plastics
- J. ASTM E 84 – Test Method for Surface Burning Characteristics of Building Materials
- K. ASTM G 155 – Accelerated Weathering for Exposure of Nonmetallic Materials
- L. ASTM D 790 – Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials
- M. ASTM D 570 – Water Absorption of Plastics

1.4 PERFORMANCE REQUIREMENTS

- A. Fire Resistance: Provide siding products that meet or exceed the following ratings:
 - 1. Flame spread index ≤ 75 ,
Smoke development rating ≥ 450 , per ASTM D 84.
 - 2. Self-ignition temperature: 430 degrees C per ASTM D 1929.
 - 3. Classified CCI with no self-sustained burn per ASTM D 635.

1.5 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 – Administrative Requirements.
- B. Manufacturer's data sheets on each product to be used, showing compliance with requirements.
- C. Selection Samples: Two complete sets of color cards representing manufacturer's full range of available colors and patterns.
- D. Manufacturer's installation instructions, showing required preparation and installation procedures.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Siding should be stored inside when possible.
- B. Always avoid storing in direct sunlight, product should be covered and protected prior to installation using a tarp and/or supplied shroud. Keep siding away from heat sources.
- C. When the product is stored outside use wood (or equivalent) supports to avoid direct contact with the ground in conjunction with covering
- D. Everlast is a premium product. Handle as you would with fine grade lumber. •Everlast recommends lifting from the middle of the product (length).
- E. Never slide or drag objects across the reveal surface.
- F. Take caution when opening bundle packaging with a knife or sharp object not to scratch the reveal surface.

1.7 WARRANTY

- A. Provide manufacturer's standard limited lifetime warranty with fade protection on siding products, transferable to new owners.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Acceptable Manufacturer: Chelsea Building Products, 565 Cedar Way; Oakmont, PA 15139
Toll Free (844) 494-7920 Web: www.everlastsiding.com Email: everlastsiding@cpbmail.com

2.2 MATERIALS

- A. Provide products made of extruded polyvinyl chloride with inorganic material coextruded with an acrylic cap profile as specified in this section.

1. Provide fastening area for attachment and blind nailing.
2. The base material shall be compounded so to provide the heat stability and weather exposure stability required for the siding market application.
3. A stacking mechanism for ease of installation

- B. Everlast® Composite Horizontal Lap Siding: 6-7/8" reveal

1. Panel Thickness: 0.225" (± 0.015 ")
2. Panel Projection: 11/16"
3. Width: 8-9/32" $\pm 1/16$ "
4. Exposure: 6-7/8"
5. Lengths: 12' & 16'
6. Weight: Approx. 7.9lbs per 12' plank
7. Weight: Approx. 10.4lbs per 16' plank
8. Finish: Low-gloss, rough cut cedar texture (CedarTouch®)
9. Colors:
 - a. Antique Ivory
 - b. Blue Spruce
 - c. Cabernet Red
 - d. Chestnut
 - e. Flagstone
 - f. Harbor Blue
 - g. Misty Taupe
 - h. Natural White
 - i. Saddle Wood
 - j. Sand Dune
 - k. Seaside Grey
 - l. Slate
 - m. Spanish Moss
 - n. Storm Grey
 - o. Willow
10. Heat Shrinkage: 0.1% at 160°F
11. Static Wind load Test Allowable Pressure: 68 psf. screws
12. Static Wind load Test Allowable Pressure: 51 psf. nails
13. Surface Distortion: $>82^{\circ}\text{C}$ (180°F)
14. Squareness: $<1/16$ " of square
15. Length: Within- $1/4$ " of specification
16. Warp/Camber: $<1/16$ "
17. Coefficient of Linear Expansion (in/in/°F): 8.38×10^{-6}
18. Izod Impact Resistance: 0.311 ft*lb/in
19. Deflection Temperature: 69.3°C (157°F) Average
20. Weathering and Flexural: 104.4 % Strength Retention
21. Freeze Thaw and Flexural: 94.1 % Strength Retention
22. Water Absorption per ASTM D-570: $<2.0\%$ Long Term (3 weeks)
23. Chemical resistance: Excellent

- C. Everlast® Composite Horizontal Lap Siding: 4-1/2" reveal

1. Panel Thickness: 0.225" (± 0.015 ")
2. Panel Projection: 11/16"

3. Width: 5-31/32" ± 1/16"
4. Exposure: 4-1/2"
5. Length: 12' & 16'
6. Weight: Approx. 6.4lbs per 12' plank
7. Weight: Approx. 8.5lbs per 16' plank.
8. Finish: Low-gloss, rough cut cedar texture (CedarTouch®)
9. Colors:
 - a. Antique Ivory
 - b. Blue Spruce
 - c. Cabernet Red
 - d. Chestnut
 - e. Flagstone
 - f. Harbor Blue
 - g. Misty Taupe
 - h. Natural White
 - i. Saddle Wood
 - j. Sand Dune
 - k. Seaside Grey
 - l. Slate
 - m. Spanish Moss
 - n. Storm Grey
 - o. Willow
10. Heat Shrinkage: 0.1% at 160°F
11. Static Wind Load Test Allowable Pressure: 98 psf. screws
12. Static Wind Load Test Allowable Pressure: 77 psf. nails
13. Surface Distortion: >82°C (180° F)
14. Squareness: <1/16" of square
15. Length: Within- 1/4" of specification
16. Warp/Camber: <1 /16"
17. Coefficient of Linear Expansion (in/in/°F): 8.38 X 10-6
18. Izod Impact Resistance: 0.311 ft*lb/in
19. Deflection Temperature: 69.3 °C (157°F) Average
20. Weathering and Flexural: 104.4 % Strength Retention
21. Freeze Thaw and Flexural: 94.1 % Strength Retention
22. Water Absorption per ASTM D-570: <2.0% Long Term (3 weeks)
23. Chemical resistance: Excellent

D. Everlast® Composite Board & Batten Vertical Siding: 11" reveal

1. Panel Thickness: 0.325" (±0.015")
2. Panel Projection: 3/4"
3. Width: 12-1/2" ± 1/16"
4. Exposure: 10-7/8"
5. Lengths: 10' & 12'
6. Weight: Approx. 13.1lbs per 10' plank
7. Weight: Approx. 15.75lbs per 12' plank
8. Finish: Low-gloss, rough cut cedar texture
9. Colors:
 - a. Antique Ivory
 - b. Blue Spruce
 - c. Cabernet Red
 - d. Chestnut
 - e. Flagstone
 - f. Harbor Blue
 - g. Misty Taupe
 - h. Natural White
 - i. Saddle Wood
 - j. Sand Dune
 - k. Seaside Grey
 - l. Slate
 - m. Spanish Moss
 - n. Storm Grey
 - o. Willow

10. Heat Shrinkage: 0.1% at 160°F
11. Static Wind Load Test Allowable Pressure: 80 psf. Screws
12. Static Wind Load Test Allowable Pressure: 36 psf. Nails
13. Surface Distortion: >82°C (180° F)
14. Squareness: <1/16" of square
15. Length: Within- 1/4" of specification
16. Warp/Camber: <1 /16"
17. Coefficient of Linear Expansion (in/in/°F): 8.38 X 10-6
18. Izod Impact Resistance: 0.311 ft*lb/in
19. Deflection Temperature: 69.3 °C (157°F) Average
20. Weathering and Flexural: 104.4 % Strength Retention
21. Freeze Thaw and Flexural: 94.1 % Strength Retention
22. Water Absorption per ASTM D-570: <2.0% Long Term (3 weeks)
23. Chemical resistance: Excellent

2.3 ACCESSORIES

- A. Provide coordinating accessories for complete and proper installation, whether or not specifically shown on the drawings.
- B. Color: Provide accessories in color matching adjacent siding or soffit panels.
- C. Color: Provide accessories in contrasting color, as follows: _____
- D. Profiles: Provide types as indicated on the drawings.
- E. Schedule of Accessories
 1. Starter strip: Rigid PVC
 2. Outside corners
 3. Inside corner post
 4. Window and Door Casing
 5. Soffit Trim
 6. Expansion Joints/Transition Trim
 7. Bracket system: stainless steel bracket and screws
 8. Miscellaneous channels and dividers to suit project conditions
 9. Cortex Fastening System

2.4 TRIM

- A. Premium Everlast Color Matched Trim: 5-1/2" Outside Corner Post
 1. Length: 10' & 20'
 2. Width: 5-1/2"
 3. Finish: CedarTouch (Woodgrain)
 4. Colors:
 - a. Antique Ivory
 - b. Blue Spruce
 - c. Cabernet Red
 - d. Chestnut
 - e. Flagstone
 - f. Harbor Blue
 - g. Misty Taupe
 - h. Natural White
 - i. Saddle Wood
 - j. Sand Dune
 - k. Seaside Grey
 - l. Slate
 - m. Spanish Moss
 - n. Storm Grey
 - o. Willow

- B. Premium Everlast Color Matched Trim: 3-1/2" Outside Corner Post
 5. Length: 10' & 20'
 6. Width: 3-1/2"
 7. Finish: CedarTouch (Woodgrain)
 8. Colors:
 - a. Antique Ivory
 - b. Blue Spruce
 - c. Cabernet Red
 - d. Chestnut
 - e. Flagstone

- f. Harbor Blue
- g. Misty Taupe
- h. Natural White
- i. Saddle Wood
- j. Sand Dune
- k. Seaside Grey
- l. Slate
- m. Spanish Moss
- n. Storm Grey
- o. Willow

B. Premium Everlast Color Matched Trim: 3-1/2" Casing

- 1. Length: 12' 6"
- 2. Width: 3-1/2"
- 3. Finish: CedarTouch (Woodgrain)
- 4. Colors:
 - a. Antique Ivory
 - b. Blue Spruce
 - c. Cabernet Red
 - d. Chestnut
 - e. Flagstone
 - f. Harbor Blue
 - g. Misty Taupe
 - h. Natural White
 - i. Saddle Wood
 - j. Sand Dune
 - k. Seaside Grey
 - l. Slate
 - m. Spanish Moss
 - n. Storm Grey
 - o. Willow

C. Premium Everlast Color Matched Trim: 1-3/4" J-Trim

- 1. Length: 12' 6"
- 2. Width: 1-3/4"
- 3. Finish: CedarTouch (Woodgrain)
- 4. Colors:
 - a. Antique Ivory
 - b. Blue Spruce
 - c. Cabernet Red
 - d. Sand Dune
 - e. Chestnut
 - f. Flagstone
 - g. Harbor Blue
 - h. Misty Taupe
 - i. Natural White
 - j. Saddle Wood
 - k. Seaside Grey
 - l. Slate
 - m. Spanish Moss
 - n. Storm Grey
 - o. Willow

D. Premium Everlast Color Matched Trim: 1-1/2" Perimeter Trim

- 1. Length: 12' 6"
- 2. Width: 1-1/2"
- 3. Finish: Matte
- 4. Colors:
 - a. Blue Spruce
 - b. Cabernet Red
 - c. Antique Ivory
 - d. Chestnut

- e. Flagstone
- f. Harbor Blue
- g. Misty Taupe
- h. Natural White
- i. Saddle Wood
- j. Sand Dune
- k. Seaside Grey
- l. Slate
- m. Spanish Moss
- n. Storm Grey
- o. Willow

E. Premium Everlast Color Matched Trim T-Moulding

- 1. Length: 12' 6"
- 2. Width: 2-3/4"
- 3. Finish: Matte
- 4. Colors:
 - a. Antique Ivory
 - b. Blue Spruce
 - c. Cabernet Red
 - d. Chestnut
 - e. Flagstone
 - f. Harbor Blue
 - g. Misty Taupe
 - h. Natural White
 - i. Saddle Wood
 - j. Sand Dune
 - k. Seaside Grey
 - l. Slate
 - m. Spanish Moss
 - n. Storm Grey
 - o. Willow

Premium Everlast Color Matched Trim: Trim Receiver

- 1. Length: 12' 6"
- 2. Width: 1-5/8"
- 3. Finish: Smooth
- 4. Colors: Grey
- 5. Required use with Premium Everlast Color Matched Trim 1-1/2" Perimeter Trim & T-Moulding

F. Cellular PVC Trim: 5-1/2" Outside Corner Post

- 1. Length: 20' and 10'
- 2. Width: 5-1/2"
- 3. Finish: Smooth
- 4. Color: Matte White

G. Cellular PVC Trim: 3-1/2" Outside Corner Post

- 1. Length: 20' and 10'
- 2. Width: 3-1/2"
- 3. Finish: Matte White
- 4. Color: Matte White

H: Cellular PVC Trim: 5-1/2" Casing

- 1. Length: 12'
- 2. Width: 5-1/2"
- 3. Finish: Smooth
- 4. Color: Matte White

I. Cellular PVC Trim: 3-1/2" Casing

- 1. Length: 12'
- 2. Width: 3-1/2"

3. Finish: Smooth
4. Color: Matte White

J. Cellular PVC Trim: Brickmould

1. Length: 17'6"
2. Width: 2"
3. Finish: Smooth
4. Color: Matte White

K. Cellular PVC Trim: Water Table

1. Length: 18'
2. Width: 2"
3. Finish: Smooth
4. Color: Matte White

2.5 FASTENERS

- A. Provide galvanized or other corrosion-resistant nails or screws as recommended by manufacturer of siding and trim products.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Prior to commencing installation, verify governing dimensions of building and condition of substrate.

3.2 PREPARATION

- A. Examine, clean, and repair as necessary any substrate conditions which would be detrimental to proper installation.
- B. Do not begin installation until unacceptable conditions have been corrected.

3.3 INSTALLATION

- A. General: Install products in accordance with the latest printed instructions of the manufacturer, with all components true and plumb.
- B. Nailing: Fasten horizontal panels by placing nail or screw through the center of the nailing channel area loosely allowing panels to float.
- C. Spacing: Allow space at all termination points in pocketed trim to allow for thermal movement.
- D. Butt Joints (Horizontal Siding): Butt joints tightly and secure together using bracket kit. Flash joint if desired.

3.4 CLEANING

- A. At completion of work, remove debris caused by siding installation from project site.