

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 QUALITY ASSURANCE

- A. Installer Minimum Qualifications:
 - 1. Installer shall have a minimum of 3 years' experience installing like products specified in this section on projects of similar scope and size.

- B. Pre-Installation Meeting: Conduct a pre-installation meeting not more than 2 weeks after the start of the siding project and before start of installation.
1. Contractor shall schedule and arrange meeting and meeting place and notify attendees.
 2. Mandatory Attendees: Siding installer
 3. Optional Attendees: Owner's representative, Architect's representative, prime Contractor's representative
 4. Review all pertinent requirements for achieving the warranty specified below and set schedule for final warranty inspection.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation. Do not stack siding more than three (3) skids high. Do not store bundles in a vertical position. When appropriate, store in a cool, dry place.

1.8 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: 7/16"
 3. Width: 8-7/16" ± 1/16"
 4. Exposure: 6-7/8"
 5. Standard Length: 12'
 6. Weight: Approx. 7.9 # per 12' plank
 7. Optional Length: 16'
 8. Weight: Approx. 10.6 # per 16' plank
 9. Finish: Low-gloss, rough cut cedar texture
 10. 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
 11. Heat Shrinkage: 0.1% at 160°F

12. Static Wind load Test Pressure: 68 psf. (165 mph) screws
13. Static Wind load Test Pressure: 51 psf. (142 mph) nails
14. Surface Distortion: >82°C (180° F)
15. Squareness: <1/16" of square
16. Length: Within- 1/4" of specification
17. Warp/Camber: <1 /16"
18. Coefficient of Linear Expansion (in/in/°F): 8.38 X 10-6
19. Izod Impact Resistance: 0.311 ft*lb/in
20. Deflection Temperature: 69.3 °C (157°F) Average
21. Weathering and Flexural: 104.4 % Strength Retention
22. Freeze Thaw and Flexural: 94.1 % Strength Retention
23. Water Absorption per ASTM D-570: <2.0% Long Term (3 weeks)
24. Chemical resistance: Excellent

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

1. Panel Thickness: 0.225" (±0.015")
2. Panel Projection: 7/16"
3. Width: 6" ± 1/16"
4. Exposure: 4-1/2"
5. Standard Length: 12'
6. Weight: Approx. 6.4 # per 12' plank
7. Optional Length: 16'
8. Weight: Approx. 8.5# per 16' plank.
9. Finish: Low-gloss, rough cut cedar texture
10. 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

11. Heat Shrinkage: 0.1% at 160°F
12. Static Wind Load Test Pressure: 98 psf. (198 mph) screws
13. Static Wind Load Test Pressure: 77 psf. (175 mph) nails
14. Surface Distortion: >82°C (180° F)
15. Squareness: <1/16" of square
16. Length: Within- 1/4" of specification
17. Warp/Camber: <1 /16"
18. Coefficient of Linear Expansion (in/in/°F): 8.38 X 10-6
19. Izod Impact Resistance: 0.311 ft*lb/in
20. Deflection Temperature: 69.3 °C (157°F) Average
21. Weathering and Flexural: 104.4 % Strength Retention
22. Freeze Thaw and Flexural: 94.1 % Strength Retention
23. Water Absorption per ASTM D-570: <2.0% Long Term (3 weeks)
24. 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. Standard Length: 12'
6. Weight: Approx. 15.75 # per plank
7. Optional Length: 10'
8. Weight: Approx. 13.2# per 10' plank
9. Finish: Low-gloss, rough cut cedar texture
10. 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
11. Heat Shrinkage: 0.1% at 160°F
12. Static Wind Load Test Pressure: 80 psf. (180 mph) screws
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. Bracket system: stainless steel bracket and screws
 7. Miscellaneous channels and dividers to suit project conditions

2.4 TRIM

- A. Premium Everlast Color Matched Trim: 3-1/2" Outside Corner Post
 1. Length: 10'
 2. Width: 3-1/2"
 3. Finish: Smooth
 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" lineal

- 1. Length: 12' 6"
- 2. Width: 3-1/2"
- 3. Finish: Smooth
- 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: 1-1/2" J-Channel

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

- b. Cabernet Red
- c. Canvas
- 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: 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

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: Smooth
- 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.
- C. Spacing: Allow space between both ends of siding panels in pocketed trim to allow for thermal movement; butt the joint ends tight.
- D. Joints in horizontal Siding: Butt joints tightly and secure together using bracket kit. Flash joint if desired.
- E. Install siding into channels of channeled accessories.

3.4 CLEANING

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