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DIVISION: 07—THERMAL AND MOISTURE PROTECTION
Section: 07460—Siding

REPORT HOLDER:

OWENS CORNING
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EVALUATION SUBJECT:

OWENS CORNING VINYL WALL SIDINGS

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2003 *International Building Code*® (IBC)
- 2003 *International Residential Code*® (IRC)
- 1997 *Uniform Building Code*™ (UBC)
- BOCA® *National Building Code/1999* (BNBC)
- 1999 *Standard Building Code*® (SBC)

Properties evaluated:

- Exterior veneer
- Wind load resistance

2.0 USES

Owens Corning vinyl sidings are used as exterior veneer and as closure material on the underside of exterior roof eaves (soffits).

3.0 DESCRIPTION

Owens Corning vinyl sidings are extruded from polyvinylchloride (PVC) resins and conform to the requirements of ASTM D 3679. The panels are formed with an upper edge having nail slots and a lower edge that hooks into the upper edge of the lower course. Refer to Table 1 of this report for the panels' thicknesses, lengths and profiles. Accessory materials such as corners, starter strips, J-channels and trim are manufactured of the same materials as the panels.

4.0 INSTALLATION

4.1 General:

Installation of the siding, including panels, corners, soffits, starter strips, trim and other accessory items, shall be in accordance with the manufacturer's published installation instructions, the applicable code and this report. In the event of a conflict between the manufacturer's published installation instructions and this report, this report shall govern. A copy of

the manufacturer's published installation instructions shall be on the jobsite at all times during installation.

Solid sheathing and a water-resistive barrier shall be provided behind the siding, as required by the applicable code.

The allowable wind loads are as noted in the prescriptive requirements of the applicable code. See Section 4.2 for applications in excess of the prescriptive requirements or where the applicable code does not provide prescriptive requirements.

4.2 Wind Resistance:

The design wind pressure shall be determined in accordance with Chapter 16 of the IBC, UBC, BNBC, or SBC, as applicable, or Section R301.2.1.1 of the IRC, and shall not exceed the values in Table 2 of this report. Wind resistance of the soffit panels is outside the scope of this report.

Where values in Table 2 are used, the siding shall be installed over solid sheathing attached to framing spaced a maximum of 16 inches (406 mm) on center and covered with a weather-resistive barrier as required by the applicable code.

Flashings in accordance with the applicable code shall be installed at all openings and penetrations, and at terminations of the sidings and soffit, to maintain the weather tightness of the assembly. The fasteners shall be 1½-inch-long (38 mm) corrosion-resistant nails with ⅜-inch-diameter (9.5 mm) heads and ⅛-inch-diameter (3.2 mm) smooth shanks. The fasteners are installed to the framing through the center of the nailing slots, a maximum of 16 inches (406 mm) on center. The fasteners shall penetrate at least 1 inch (25.4 mm) into wood studs. In areas utilizing the UBC, fastener spacing for attaching the siding shall comply with UBC Section 1404.2.

A minimum of 1/32 inch (0.8 mm) is required between the fastener head and the face of the vinyl nailing flange, to allow movement of the panels due to expansion and contraction. A gap of ¼ inch (6.4 mm) is required at all openings and stops, for expansion and contraction. Joints between panels shall be overlapped a minimum of ½ inch (12.7 mm). Accessory materials shall be installed in accordance with the manufacturer's published installation instructions.

5.0 CONDITIONS OF USE

The Owens Corning Vinyl Siding described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** The siding is limited to installations on buildings of Type V-B (IBC), Type 5B (BNBC), Type VI (SBC) and Type V-N (UBC) construction, and construction permitted by the IRC.
- 5.2** The exterior walls shall be braced or sheathed to resist racking loads with approved materials in accordance with the applicable code.

5.3 The siding shall be installed only on exterior walls with solid sheathing capable of supporting the imposed loads, including, but not limited to, transverse wind loads. The sheathing shall be covered with a water-resistive barrier, as required by the applicable code.

6.0 EVIDENCE SUBMITTED

- 6.1** Manufacturer's installation instructions, dated 1999 (editorially revised February 2005).
- 6.2** Data in accordance with the ICC-ES Evaluation Guideline for Vinyl Siding (EG37), dated October 2003.

6.3 A quality control manual.

7.0 IDENTIFICATION

The Owens Corning vinyl wall sidings described in this report are identified by a stamp bearing the Owens Corning name and the product type, the statement "Conforms to ASTM specification D 3679," the statement "Conforms to UBC Standard 14-2" and the evaluation report number (ESR-1020).

TABLE 1—PANEL THICKNESSES, LENGTHS AND DESCRIPTIONS

THICKNESS	PROFILE	BRAND	NOMINAL BRAND LENGTH
0.040 in. (1.02 mm)	Double 4	Summit Manor, Easy Street, Oakview Manor, Walnut Manor, Classic, Solid Vinyl Siding	12 ft. 6 in. (3.81 m)
		Nantucket, Accord Standard	12 ft. 3 ⁵ / ₈ in. (3.75 m)
	Double 4 Dutchlap	Nantucket, Accord Standard	12 ft. 3 ⁵ / ₈ in. (3.75 m)
	Double 4.5	Easy Street, Essentials, Classic, Summit Manor, Oak View Manor, Walnut Manor, Solid Vinyl Siding	12 ft. 1 in. (3.68 m)
		Nantucket	12 ft. 11 ¹ / ₈ in. (3.94 m)
	Double 4.5 Dutchlap	Easy Street, Essentials, Classic, Summit Manor, Oak View Manor, Walnut Manor, Solid Vinyl Siding	12 ft. 1 in. (3.68 m)
Nantucket, Accord Standard		12 ft. 11 ¹ / ₈ in. (3.94 m)	
	Triple 3	Essentials Narrow Plank, Shenandoah, Renovations, Triple 3 Vinyl Siding	12 ft. 1 in. (3.68 m)
0.041 in. (1.04 mm)	Double 4	UVS	12 ft. 3 ⁵ / ₈ in. (3.75 m)
0.042 in. (1.07 mm)	Double 4	Essentials Plus, Proform, Woodsman Select, Oak View Estates, Renovations Basic, Chesapeake Select, Walnut Estate, Town Hall Woodgrain, Cedar Grain Vinyl Siding	12 ft. 6 in. (3.81 m)
	Double 4 Dutchlap	Proform, Woodsman Select, Oak View Estates, Essentials Plus, Chesapeake Select, Walnut Estate, Town Hall Woodgrain, Cedar Grain Vinyl Siding	12 ft. 6 in. (3.81 m)
	Double 4.5	Proside 20	20 ft. (6.10 m)
		Proside, Accord Premium	12 ft. 11 ¹ / ₈ in. (3.94 m)
	Double 4.5 Dutchlap	Proside 20	20 ft. (6.10 m)
		Proside, Accord Premium	12 ft. 11 ¹ / ₈ in. (3.94 m)
	Double 5	Essentials Plus, Proform, Woodsman Select, Oak View Estates, Chesapeake Select, Walnut Estate, Town Hall Woodgrain, Cedar Grain Vinyl Siding	12 ft. (3.66 m)
	Double 5 Dutchlap	Woodsman Select, Essentials Plus, Oak View Estates, Renovations Basic, Proform, Chesapeake Select, Townhall Woodgrain, Cedar Grain Vinyl Siding	12 ft. (3.7 m)
Triple 3	Triple 3, Accord Premium T3	12 ft. 11 ¹ / ₈ in. (3.94 m)	
Triple 3	Narrow Plank	12 ft. 6 in. (3.81 m)	
0.043 in. (1.09 mm)	Double 5 Vertical	Shurlock	12 ft. (3.66 m)

(Continued)

TABLE 1—PANEL THICKNESSES, LENGTHS AND DESCRIPTIONS (Continued)

THICKNESS	PROFILE	BRAND	NOMINAL BRAND LENGTH
0.044 in. (1.12 mm)	Double 4	Essentials Premium, Grand Junction, Great Barrier, Sterling, Renovations Select, Supreme Plus, Oak View Premium, Town Hall Premium Plus, Premium Solid Vinyl Siding, Polar Wall Plus, Generations, Deluxe Woodgrain, American Classic, Ridgewood	12 ft. 6 in. (3.81 m)
		Great Barrier, Grand Junction	16 ft. 8 in. (5.08 m)
		Polar Wall Plus	16 ft. 8 in. (5.08 m)
	Double 4.5	Prestige, Accord Premium Plus, Expressions	12 ft. 11 ¹ / ₈ in. (3.94 m)
		Prestige 16	16 ft. (4.88 m)
	Double 4.5 Dutchlap	Supreme Plus	12 ft. 1 in. (3.68 m)
		Prestige, Accord Premium Plus, Expressions	12 ft. 11 ¹ / ₈ in. (3.94 m)
		Prestige 16	16 ft. (4.88 m)
	Double 5	Essentials Premium, Sterling, Nantucket, Deluxe Woodgrain	12 ft. (3.66 m)
	Double 5 Dutchlap	Essentials Premium, Grand Junction, Sterling, Renovations Select, Oak View Premium, Great Barrier, Town Hall Premium Plus, Premium Solid Vinyl Siding, Polar Wall Plus, Generations, Deluxe Woodgrain, American Classic, Ridgewood	12 ft. (3.66 m)
		Great Barrier, Grand Junction	16 ft. 8 in. (5.08 m)
Prestige, Accord Premium Plus, Expressions		12 ft. 11 ¹ / ₂ in. (3.95 m)	
Polar Wall Plus		16 ft. 8 in. (5.08 m)	
Single 6.25 Vertical	Board and Batten	10 ft. (3.05 m)	
Triple 4 Vertical	Norandex Premium	12 ft. (3.66 m)	
0.045 in. (1.14 mm)	Single 8	Bevel 8, Accord 8	12 ft. 3 ⁵ / ₈ in. (3.75 m)
0.046 in. (1.17 mm)	Double 4.5	Eminence	13 ft. 4 in. (4.06 m)
			19 ft. (5.8 m)
			20 ft (6.1 m)
		Cedar Reflections, Reminiscence, Premium Cedar Grain Vinyl Siding	12 ft. 1 in. (3.68 m)
		Cedar Reflections XL, Premium Extended Length Cedar Grain Vinyl Siding	16 ft. 8 in. (5.08 m)
	Double 4.5 Dutchlap	Eminence	13 ft. 4 in. (4.06 m)
			19 ft. (5.8 m)
			20 ft (6.1 m)
	Cedar Reflections, Reminiscence, Premium Cedar Grain Vinyl Siding	12 ft. 1 in. (3.68 m)	
	Cedar Reflections XL, Premium Extended Length Cedar Grain Vinyl Siding	16 ft. 8 in. (5.08 m)	
Single 6.5	Essentials Semi-Beaded, Shenandoah, Beaded 6.5 Vinyl Siding	12 ft. 3 ⁵ / ₈ in. (3.75 m)	
Double 5 Vertical	HomeSide	12 ft. 1 in. (3.66 m)	
0.047 (1.19 mm)	Single 6.25 Vertical	Board and Batten	10 ft (3.05 m)
0.048 in. (1.22 mm)	Double 4.5	Reminiscence	12 ft. 1 in. (3.68 m)
	Double 4.5 Dutchlap	Reminiscence	12 ft. 1 in. (3.68 m)
	Double 5 Vertical	Vytec, Essentials, Norandex, Reynolds, Townhall, American Classic, Renovations, Premium Vinyl Soffit	12 ft. (3.66 m)
	Single 6.5	Cambridge Beaded, Nantucket Beaded, Beaded Premium Vinyl Siding	12 ft. 4 in. (3.76 m)
	Single 8	Deluxe	12 ft. 6 in. (3.81 m)
0.050 in. (1.27 mm)	Double 4	Cross Roads, Sagebrush, Super Premium Vinyl Siding, Town Hall Brushed	12 ft. 6 in. (3.81 m)
	Double 5 Dutchlap	Cross Roads, Sagebrush, Super Premium Vinyl Siding, Town Hall Brushed	12 ft. (3.66 m)

TABLE 2—ALLOWABLE NEGATIVE WIND LOADS²

SIDING ¹	NOMINAL THICKNESS (in.)	ALLOWABLE NEGATIVE WIND LOAD (psf)	
		SBC/IBC/BNBC	UBC
Double 5 DL	0.040	57.55	35.97
Double 4	0.043	46.23	28.89
Triple 4	0.044	36.28	22.68

For **SI**: 1 psf = 0.0479 kPa, 1 foot = 304.8 mm.

¹Nails and fastener spacing for siding attachment are described in Section 4.2 of this report.

²Siding profiles not identified in this table must be attached in accordance with the applicable code.