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

REPORT HOLDER:

GENTEK BUILDING PRODUCTS, INC.
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EVALUATION SUBJECT:

GENTEK AND REVERE VINYL SIDINGS AND SOFFITS

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2006 *International Building Code*® (IBC)
- 2006 *International Residential Code*® (IRC)
- BOCA® *National Building Code/1999* (BNBC)
- 1999 *Standard Building Code*® (SBC)
- 1997 *Uniform Building Code*™ (UBC)

Properties evaluated:

- Durability
- Exterior veneer
- Wind load resistance
- Fire-resistance-rated construction

2.0 USES

The Gentek and Revere Vinyl Sidings are used as exterior wall coverings over an approved sheathing capable of supporting the imposed loads, including but not limited to positive transverse wind load; and as closure materials on the underside of exterior roof eaves (soffits).

3.0 DESCRIPTION

The Gentek and Revere Vinyl Sidings are extruded from polyvinyl chloride (PVC) resins and conform to the requirements of ASTM D 3679. The panels are available in various colors, and with a smooth finish or embossed with a matte or wood grain texture. The soffit panels are produced in solid and vented versions. The sidings are produced with a minimum nominal thickness of 0.040 inch (1.0 mm), and the soffits are produced with a minimum nominal thickness of 0.040 inch (1.0 mm). Refer to Tables 1 and 2 of this report for the siding profiles and related descriptive information. Accessory materials such as corners, starter strips, J-channels and trim are manufactured of the same materials as the sidings.

4.0 INSTALLATION

4.1 General:

Installation of Gentek and Revere vinyl sidings, including accessory items, shall be in accordance with ASTM D 4756, the manufacturer's installation instructions, the applicable code and this report.

The siding shall be installed over solid sheathing with an approved water-resistive barrier. To maintain the weather tightness of the assembly, flashing in accordance with the applicable code shall be installed at all openings and through-penetrations, abutment with dissimilar materials, and terminations of the siding and soffits.

The siding shall be installed over minimum $\frac{7}{16}$ -inch-thick (11.1 mm) oriented strand board complying with Product Standard PS2-92, or minimum $\frac{1}{2}$ -inch-thick (12.7 mm) plywood sheathing complying with Product Standard PS1-95, attached to the framing a maximum of 16 inches (406 mm) on center and covered with a water-resistive barrier as required by code. Fasteners shall be spaced a maximum of 16 inches (406 mm) on center for horizontal siding, a maximum of 12 inches (305 mm) on center for vertical siding panels and a maximum of 10 inches (254 mm) on center for the accessories. The fasteners shall be long enough to penetrate through the sheathing and into the wood studs a minimum of 1 inch (25.4 mm). Allowance shall be made for expansion and contraction by leaving a $\frac{1}{4}$ -inch (6.4 mm) gap between the siding and all vertical accessory members at wall ends and around openings.

Accessory materials shall be installed in accordance with the manufacturer's published installation instructions.

4.2 Fasteners:

Aluminum, galvanized steel, or other corrosion-resistant nails shall be used. Nail heads shall be a minimum of $\frac{5}{16}$ inch in diameter (7.9 mm) with a $\frac{1}{8}$ -inch-diameter (3.2 mm) shank. Minimum nail lengths are $1\frac{1}{2}$ inches (38 mm), except that there shall be a minimum length of 1 inch (25.4 mm) for trim.

4.3 One-hour Nonload-bearing Fire-resistance-rated Assembly:

The following assembly shall be used with a fire separation distance of greater than 5 feet (1.5 m) in jurisdictions adopting the IBC, SBC and BNBC, and 3 feet (914 mm) in jurisdictions adopting the IRC. This assembly is not permitted under the UBC.

4.3.1 Vinyl Siding: 0.040-inch-thick (1.02 mm), 5-inch (127 mm) shiplap pattern.

4.3.2 Wood Framing: Nominal 2-by-4-inch (51 mm by 102 mm) Douglas fir-larch, select structural.

4.3.3 Exterior Sheathing: $\frac{5}{8}$ -inch-thick (15.9 mm), Type X, water-resistant core gypsum sheathing complying with ASTM C 79.

4.3.4 Water-resistant Barrier: Type 15 asphalt felt complying with ASTM D 226.

4.3.5 Interior Finish: $\frac{5}{8}$ -inch-thick (15.9 mm), Type X gypsum board complying with ASTM C 36.

4.3.6 Fasteners:

- 16d common nails for wood framing.
- $1\frac{7}{8}$ -inch-long (48 mm), 0.092-inch-diameter-shank (2.34 mm), $\frac{9}{32}$ -inch-diameter-head (7.1 mm), etched, drywall nails for attachment of gypsum board to framing.
- 0.060-inch-thick (15.2 mm), 1-inch-leg-by- $\frac{5}{8}$ -inch-crown (25.4 by 15.9 mm) staples for the water-resistive barrier.
- $1\frac{3}{4}$ -inch-long (44 mm) aluminum siding nails with rubber grommet for attachment of the vinyl siding.

4.3.7 Joints: Ready-mixed joint compound and paper reinforcing tape.

4.3.8 Installation: Wood studs shall be spaced at 16 inches (406 mm) on center. One layer of gypsum board, 48 inches (1219 mm) wide, shall be applied vertically to both faces of the studs and secured with 6d nails at 7 inches (178 mm) on center along all studs. The gypsum board joints require treatment consisting of drywall compound and drywall tape. The nail heads require treatment with drywall compound. A water-resistive barrier shall be attached horizontally to the gypsum sheathing, with staples 18 inches (457 mm) on center and a minimum of 4 inches (102 mm) of overlap at the joints. The vinyl siding shall be installed over the water-resistive barrier and secured with aluminum siding nails with rubber grommet at each stud location. The assembly as described achieves a fire-resistance rating of one hour when exposed to fire from the exterior side.

4.4 Wind Resistance:

The design wind pressures shall be determined in accordance with Chapter 16 of the IBC, BNBC, SBC or UBC, or Section R301.2.1 of the IRC, and shall not exceed the values shown in Table 3 of this report.

5.0 CONDITIONS OF USE

The Gentek and Revere Vinyl Sidings described in this report comply with those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** Installation complies with this report, the manufacturer's published installation instructions, the applicable code and this report. Where the published instructions conflict with this report, this report shall govern.
- 5.2** For installation on buildings of other than Type V (IBC) and Type 5 (BNBC) construction, Gentek and Revere Vinyl Sidings shall have a minimum fire separation distance of 15 feet (4.6 m).
- 5.3** The exterior walls shall be braced or sheathed to resist racking loads with approved materials in accordance with the requirements of the applicable code.
- 5.4** The siding shall be installed only on exterior walls covered by solid sheathing capable of supporting the imposed loads, including but not limited to positive transverse wind loads.
- 5.5** The siding is manufactured in Burlington, Ontario, Canada, under a quality control program with inspections by Architectural Testing, Inc. (AA-676).

6.0 EVIDENCE SUBMITTED

- 6.1** Manufacturer's published installation instructions.
- 6.2** Data in accordance with the ICC-ES Acceptance Criteria for Vinyl Sidings (AC37), dated December 2006.
- 6.3** Report of tests in accordance with ASTM E 119.
- 6.4** A quality control manual.

7.0 IDENTIFICATION

Each carton of the Gentek and Revere Vinyl Siding and Soffit products described in this report is identified by a stamp bearing the Gentek Building Products, Inc., name and/or trademark, the product type, the statements "Conforms to ASTM Specification D 3679" and "Conforms to UBC Standard 14-2," the name of the inspection agency (Architectural Testing, Inc.) and the evaluation report number (ESR-1133).

TABLE 1—GENTEK AND REVERE VINYL SIDING AND SOFFIT

PRODUCT NAME	PRODUCT DESIGNATION	NOMINAL THICKNESS (in.)	LENGTH (in.)	EXPOSURE (in.)
Gentek – Advantage III Revere – Somerville	Triple 3 inch	0.042	145	9
Gentek – Concord Revere – Amherst	Double 4 inch	0.042	150	8
	Double 4 inch Dutch lap	0.042	150	8
	Double 5 inch	0.042	144	10
	Double 5 inch Dutch lap	0.042	144	10
Gentek – Signature Supreme Revere – Fair Oaks	Double 4 inch	0.044	150	8
	Double 4 inch Dutch lap	0.044	150	8
	Double 5 inch	0.044	144	10
	Double 5 inch Dutch lap	0.044	144	10
	Single 8 inch	0.044	150	8
Gentek – Northern Forest Revere – Bennington	Double 4 inch	0.044	150	8
	Double 5 inch	0.044	144	10
	Double 5 inch Dutch lap	0.044	144	10
	12 inch vertical	0.044	144	12
Gentek – Sequoia Select Revere – Sovereign Select	Double 4 inch	0.046	150	8
	Double 4.5 inch Dutch lap	0.046	145	9
	Double 5 inch	0.046	144	10
	Double 5 inch Dutch lap	0.046	144	10
	7" Board and Batten	0.050	120	7
Gentek – America's Dream	Double 4.5 inch Dutch lap	0.046	145	9
Revere – Driftwood	Double 4 inch	0.040	150	8
	Double 4.5 inch Dutch lap	0.040	145	9
Gentek – Aurora	Double 4 inch	0.040	150	8
	Double 4 Dutch lap	0.040	150	8
	Double 4.5 inch Dutch lap	0.040	145	9
Gentek – Centennial	6.5 inch Beaded	0.046	148	6.5
Gentek – Berkshire	6.5 inch Beaded	0.046	148	6.5
Oxford	10 inch vertical	0.042, 0.044, 0.048	120	10
Advantage	12 inch vertical	0.042	144	12
Fairweather	12 inch vertical	0.040	144	12
Berkshire Classic	D4	0.044	150	8
	D4D	0.044	150	8
	D5	0.044	144	10
	D5D	0.044	144	10
Northern Forest Elite	D4	0.046	150	8
	D5	0.046	144	10
	D5D	0.046	144	10
	7" Board and Batten	0.050	120	7
Gentek – Sequoia Revere – Sovereign	Vertical	0.044	144	12

For SI: 1 inch = 25.4 mm.

TABLE 2—GENTEK VINYL SOFFIT

PRODUCT NAME	PRODUCT DESIGNATION	NOMINAL THICKNESS (in.)	LENGTH (in.)	PANEL VENTING TYPE AND VENT AREA (SQ. IN./ LINEAR FOOT)		
				EXPOSURE (in.)	CENTER VENT	FULL VENT
Advantage	Triple 4 inch	0.042	144	12	1.9	5.8
Fairweather	Triple 4 inch	0.040	144	12	1.9	5.8
Oxford	Double 5 inch	0.042, 0.044, 0.048	120	10	—	5.3
Gentek – Sequoia Revere – Sovereign	Hidden Vent Soffit	0.046	144	12	--	2

For SI: 1 inch = 25.4 mm.

TABLE 3—ALLOWABLE DESIGN PRESSURES

SIDING ¹	NOMINAL THICKNESS (in.)	ALLOWABLE NEGATIVE WIND LOAD (psf)
Revere Driftwood Gentek Advantage III Revere – Sommerville	0.040	39.0
Gentek – Northern Forest Revere – Bennington Gentek – Signature Supreme Revere – Fair Oaks	0.044	55.2
Advantage Fairweather	0.040	36.3
Gentek – Concord Revere – Amherst (rolled nail hem)	0.042	73.7
Gentek – Sequoia Select Revere – Sovereign Select (Double 4) (1½" roofing nails)	0.046	105.0
Gentek – Sequoia Select Revere – Sovereign Select (Double 5, Double 5 Dutchlap, Double 4.5 Dutchlap) America's Dream (Double 4.5 Dutchlap) (1½" roofing nails)	0.046	111.2
Gentek – Sequoia Select Revere – Sovereign Select (Double 4) (1¾" ring shank nails)	0.046	163.0
Gentek – Sequoia Select Revere – Sovereign Select (Double 5, Double 5 Dutchlap, Double 4.5 Dutchlap) (1¾" ring shank nails)	0.046	162.0
Berkshire Classic 8"	0.044	92.5
Berkshire Classic 10"	0.044	68
Gentek – Sequoia Revere – Sovereign (7" Board and Batten)	0.049	64.8
Gentek – Seqoia Revere – Sovereign (Vertical)	0.044	49.4

For **SI**: 1 inch = 25.4 mm, 1 psf = 0.0479 kPa.

¹Nail and fastener spacing for the siding attachment shall be in accordance with Section 4.1 of this report.