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DIVISION: 07 00 00 THERMAL AND MOISTURE PROTECTION
Section: 07 46 33 Plastic Siding

REPORT HOLDER:

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REPORT SUBJECT:

ABTCO TimberCrest™ Plank Single 7" Reinforced Siding

1.0 SCOPE OF EVALUATION

1.1 This Research Report addresses compliance with the following Codes:

- 2024, 2021 *International Building Code*® (IBC)
- 2024, 2021 *International Residential Code*® (IRC)
- 2023, 2020 *Florida Building Code* (FBC), excluding High-Velocity Hurricane Zone (HVHZ)
- 2022 *California Building Code* (CBC), excluding Wildland-Urban Interface (WUI)

NOTE: This report references the most recent editions of the codes cited. Code sections in earlier editions may differ.

1.2 The ABTCO TimberCrest™ Plank Single 7" Reinforced Siding has been evaluated for the following properties:

- Durability
- Surface Burning
- Weather Resistance
- Wind Load Resistance (Negative Transverse)
- Ignition Resistance

1.3 The ABTCO TimberCrest™ Plank Single 7" Reinforced Siding has been evaluated for the following uses:

- Use as an exterior wall cladding on buildings of Type V construction under the IBC and all construction types permitted under the IRC.
- Use as an exterior wall cladding on buildings of Types III and IV-HT construction. See Section 6.4.

2.0 STATEMENT OF COMPLIANCE

The ABTCO TimberCrest™ Plank Single 7" Reinforced Siding complies with the Codes listed in Section 1.1, for the properties stated in Section 1.2 and uses stated in Section 1.3, when installed as described in this report, including the Conditions of Use stated in Section 6.0.

3.0 DESCRIPTION

3.1 ABTCO TimberCrest™ Plank Single 7" Reinforced Siding manufactured in the thickness, profile and colors described in Table 2. The siding is extruded from polyvinyl chloride (PVC) material, with or without ASA capstock, backed with a rigid expanded polystyrene foam insulation adhered to the back of the PVC siding. The siding conforms to ASTM D7445-18.

4.0 PERFORMANCE CHARACTERISTICS

4.1 Flame Spread – ABTCO TimberCrest™ Plank Single 7" Reinforced Siding has a flame spread index not exceeding 200 when tested in accordance with ASTM E 84. The foam plastic backing material has a flame spread index not exceeding 75 and smoke development index not exceeding 450 when tested in accordance with ASTM E 84.

4.2 Wind Resistance – Design pressures applicable to allowable stress design (ASD) determined in accordance with the applicable code shall not exceed the allowable wind loads specified for the product in Table 3.



4.2.1 ABTCO TimberCrest™ Plank Single 7" Reinforced Siding has not been evaluated for resisting positive wind pressure. Siding must be installed over structural sheathing designed to resist wind design pressures in accordance with the applicable code.

4.2.2 Allowable negative wind design pressures are given in Table 3 for the sidings installed in accordance with Section 5.0.

4.3 Ignition Resistance / IBC Section 1405.1.1.1 – ABTCO TimberCrest™ Plank Single 7" Reinforced Siding did not exhibit sustained flaming when exposed to a radiant heat flux of 12.6 kW/m² in accordance with NFPA 268.

5.0 INSTALLATION

5.1 General:

ABTCO TimberCrest™ Plank Single 7" Reinforced Siding must be installed in accordance with the manufacturer's published installation instructions, the applicable Code, and this Research Report. A copy of the manufacturer's instructions must be available on the jobsite during installation.

5.2 Application:

5.2.1 Except as noted herein, ABTCO TimberCrest™ Plank Single 7" Reinforced Siding must comply with the prescriptive requirements of IBC Section 1404.15, or IRC Sections R703.4 and R703.11.1.

5.2.2 Accessories utilized for installation include starter strip, J-channel, drip cap and inside/outside corner trim.

5.2.3 The reinforced siding shall be installed over an approved water-resistive barrier and structural sheathing. Wood-based sheathing shall be plywood complying with DOC PS 1 or Oriented Strand Board (OSB) Exposure 1 sheathing complying with DOC PS 2. When wood-based sheathing is used for IBC Types III and IV-HT construction, the siding shall be installed over an approved fire-retardant-treated wood structural sheathing complying with IBC Section 2303.2.

5.2.4 ABTCO TimberCrest™ Plank Single 7" Reinforced Siding shall be fastened through the sheathing to wood studs as described in Table 2. When attached through

sheathings other than wood, the fasteners must be long enough to provide a minimum of 1-1/16-in penetration into the framing. Fasteners shall be corrosion resistant.

6.0 CONDITIONS OF USE

6.1 Installation must comply with this Research Report, the manufacturer's published installation instructions, and the applicable Code. In the event of a conflict, this report governs.

6.2 For codes recognized in this report, design wind pressures shall be determined in accordance with the IBC Chapter 16 and IRC Section R301.2.

6.3 Wind Design pressures shall be determined from allowable stress design wind speeds (V_{asd}) and shall not exceed the allowable wind pressures shown in Table 3.

6.4 Use of the reinforced sidings is limited to exterior use on buildings of Type V construction and construction permitted by the IRC, except when installed on buildings of Types III and IV-HT construction under the following conditions:

6.4.1 The area of the cladding shall not exceed 10 percent of the wall area where the fire separation distance is 5 feet or less. Where fire separation distance is greater than 5 feet, there is no wall area limitation.

6.4.2 Building heights of 40 feet or less above grade.

6.4.3 Cladding located along the top of exterior walls shall be completely backed by the exterior wall and shall not extend over or above the top of the exterior wall.

6.4.4 Fire retardant treated wood (FRTW) exterior wall assemblies with a fire resistance rating of 2-hour or less.

6.5 Compatibility of the supporting construction materials with all fasteners, components, and other hardware components is subject to approval by the code official.

6.6 Only those types of fasteners and fastening methods described in this report have been evaluated for the installation of the siding product. Other methods of attachment are outside the scope of this report.





6.7 ABTCO TimberCrest™ Plank Single 7" Reinforced Siding is manufactured by CertainTeed under a quality control program with inspections by Intertek Testing Services NA, Inc.

7.0 SUPPORTING EVIDENCE

7.1 Manufacturer's drawings and installation instructions.

7.2 Reports of testing in accordance with NFPA 268-22, Standard Test Method for Determining Ignitability of Exterior Wall Assemblies Using a Radiant Heat Energy Source.

7.3 Reports of testing in accordance with ASTM D7445-18, Standard Specification for Rigid Poly(Vinyl Chloride) (PVC) Siding with Foam Plastic Backing (Backed Vinyl Siding)

7.4 Documentation of an Intertek approved quality control system for the manufacturing or products recognized in this report.

8.0 IDENTIFICATION

Labeling on packaging is identified with the following information:

- Product name
- The statement, "See Intertek CCRR-0486 at bpdirectory.intertek.com for uses and performance levels."
- The Intertek Mark as shown below, and the Code Compliance Research Report number.



9.0 OTHER CODES

9.1 Florida Building Code

ABTCO TimberCrest™ Plank Single 7" Reinforced Siding, described in Sections 2.0 through 7.0 of this Research Report, complies with the *Florida Building Code – Building* and *Florida Building Code – Residential*, subject to the following conditions:

- Use of the reinforced sidings for compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code – Building* and the *Florida Building Code – Residential* has not been evaluated and is outside the scope of this Research Report.
- Intertek is an approved evaluation entity and quality assurance entity pursuant to Florida Statute 553.842 – *Product Evaluation and Approval*.

9.2 California Building Code

ABTCO TimberCrest™ Plank Single 7" Reinforced Siding, described in Sections 2.0 through 7.0 of this Research Report, complies with the *California Building Code* and *California Residential Code*, subject to the following conditions:

- Use of the reinforced sidings for compliance with the Wildland Urban Interface provisions of the *California Building Code* and *California Residential Code* has not been evaluated and is outside the scope of this Research Report.

10.0 CODE COMPLIANCE RESEARCH REPORT USE

10.1 Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

10.2 Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek.

10.3 Reference to <https://bpdirectory.intertek.com> is recommended to ascertain the current version and status of this report.



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TABLE 1 – PROPERTIES EVALUATED

Property	APPLICABLE CODE SECTIONS ¹					
	IBC	IRC	FBC	FBC-R	CBC	CRC
Exterior Wall Performance Requirements	1402	R703.1	1403	R703.1	1402	R703.1
Materials	104.2.3 104.11	R104.2.2 R104.11	104.11	R104.11	104.11	R104.11
Combustible Exterior Wall Coverings for use in Types III, and IV Construction	1405.1	n/a	1406.1	n/a	1405.1	n/a
Wind Load Resistance	1609	R703.1.2	1609	R703.1.2	1609	R703.1.2

¹Section numbers pertain to the most recent edition cited in Section 1.1 of this Report

TABLE 2 – REINFORCED SIDING DESCRIPTIONS, THICKNESSES, LENGTHS AND COLORS

Product Name	Product Code	Profile Name	Nominal Thickness (inches)	Exposure (inches)	Length (feet-inches)	Colors
ABTCO Timbercrest Plank	65102	Single 7" Horizontal	0.046	7	12-4 1/2	White, Sage, Charcoal and Khaki

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TABLE 3 – WIND RESISTANCE
MAXIMUM ALLOWABLE NEGATIVE DESIGN PRESSURE (PSF)⁽¹⁾

Siding	Installation		Allowable Negative Design Pressure (psf)	Type of Construction
	Fastener	Sheathing ⁽²⁾		
ABTCO Timbercrest™ Plank Single 7" installed horizontally	Min. 1-1/2 inch long, 1/8-inch shank dia., 7/16-inch head dia., galvanized roofing nails, spaced 16 inches o.c. Min. 1-1/16-in. penetration into framing required.	Any sheathing permitted by code (See 5.2.3)	82	IBC Type V and IRC
ABTCO Timbercrest™ Plank Single 7" installed horizontally	Min. 1-1/2 inch long, 1/8-inch shank dia., 7/16-inch head dia., galvanized roofing nails, spaced 16 inches o.c. Min. 1-1/16-in. penetration into fire-retardant-treated wood framing required.	Any sheathing permitted by code (See 5.2.3)	74 ⁽³⁾	IBC Types III and IV-HT

¹Design Pressures are determined in accordance with Annex 1 of ASTM D7445 (same as ASTM D7793).

²Approved structural sheathing rated for the required wind design pressure.

³In accordance with IBC 2303.2.6, design values shall be adjusted for fire-retardant-treated wood. An adjustment of 0.9 has been applied. If the FRT sheathing manufacturer's adjustment is greater than 0.9, further reduction is required.



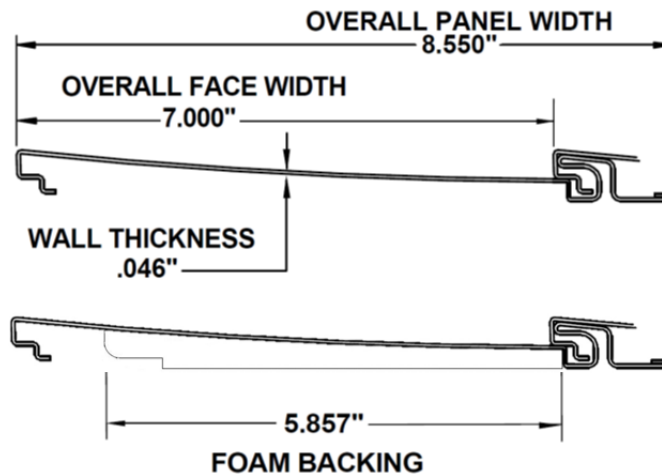


FIGURE 1 – ABTCO TIMBERCREST™ PLANK SINGLE 7" REINFORCED SIDING PROFILE