Code Compliance Research Report
CCRR-0325

Issue Date: 11-20-2019
Revised Date: 03-03-2026
Renewal Date: 11-30-2026

DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION
Section: 07 46 00 – Siding
Section: 07 43 00 – Composition Siding

REPORT HOLDER:
The Trex Company
2500 Trex Way
Winchester, VA 22601 (540)542-6300
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REPORT SUBJECT:
Trex Transcend® Open-Joint Cladding
Trex Transcend® Lineage® Open-Joint Cladding
Trex Signature® Open-Joint Cladding

1.0 SCOPE OF EVALUATION

1.1 This Research Report addresses compliance with the following Codes:

- 2021 and 2018 *International Building Code®* (IBC)
- 2021 and 2018 *International Residential Code®* (IRC)
- 2023 *Florida Building Code* excluding High Velocity Hurricane Zone, HVHZ (see Section 9.0)

NOTE: This report references the most recent version of the codes cited. Section numbers in earlier editions of the codes may differ.

1.2 *Trex Transcend® Open-Joint Cladding*, *Trex Transcend® Lineage® Open-Joint Cladding* and *Trex Signature® Open-Joint Cladding* have been evaluated for the following properties:

- Physical Properties
- Surface Burning
- Wind Load Resistance

1.3 *Trex Transcend® Open-Joint Cladding*, *Trex Transcend® Lineage® Open-Joint Cladding* and *Trex Signature® Open-Joint Cladding* have been evaluated for the following uses:

- Use as an exterior wall cladding on building of type VB construction (IBC, FBC-B) and all construction types permitted under the IRC and FBC-R Residential.

2.0 STATEMENT OF COMPLIANCE

Trex Transcend® Open-Joint Cladding, *Trex Transcend® Lineage® Open-Joint Cladding* and *Trex Signature® Open-Joint Cladding* comply 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 *Trex Transcend® Open-Joint Cladding*, *Trex Transcend® Lineage® Open-Joint Cladding* and *Trex Signature® Open-Joint Cladding* are an extruded 1 x 6" or 1 x 4" squared edge wood-plastic composite (wpc) board that consists of a solid substrate that contains approximately 50% wood and 50% polyethylene. The deck board has a polymer capstock that covers 3 sides of the board and is embossed with a wood-like natural finish.

3.2 *Trex Transcend® Open-Joint Cladding* is available in six colors: Havana Gold, Island Mist, Lava Rock, Rope Swing, Spiced Rum, and Tiki Torch.

3.3 *Trex Transcend® Lineage® Open-Joint Cladding* is available in seven colors: Biscayne, Carmel, Hatteras, Island Mist Lineage, Jasper, Rainier and Salt Flat.

3.4 *Trex Signature® Open-Joint Cladding* is available in two colors: Whidbey and Ocracoke.

4.0 PERFORMANCE CHARACTERISTICS

4.1 Windload Resistance – Maximum allowable design pressures are shown in Table 2 and Table 3 for *Trex Transcend® Open-Joint Cladding* and *Trex Transcend® Lineage® Open-Joint Cladding* when installed in accordance with this report**.** Maximum allowable design pressures are shown in Table 4 for *Trex Signature® Open-Joint Cladding* when installed in accordance with this report**.**

4.2 *Trex Transcend® Open-Joint Cladding*, *Trex Transcend® Lineage® Open-Joint Cladding* and *Trex Signature® Open-Joint Cladding* have a flame spread index not exceeding 200 when tested in accordance with ASTM E84.

5.0 INSTALLATION

5.1 General:

Trex Transcend® Open-Joint Cladding, *Trex Transcend® Lineage® Open-Joint Cladding* and *Trex Signature® Open-Joint Cladding* 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 *Trex Transcend® Open-Joint Cladding* and *Trex Transcend® Lineage® Open-Joint Cladding* shall be installed with fastening as described in Table 2 and Table 3. *Trex Signature® Open-Joint Cladding* shall be installed with fastening as described in Table 4.

5.2.2 *Trex Transcend® Open-Joint Cladding*, *Trex Transcend® Lineage® Open-Joint Cladding* and *Trex Signature® Open-Joint Cladding* shall be attached directly to spaced furring strips running perpendicular to the length of the cladding board. The furring shall be light-gage steel framing or nominal 2x wood furring. Attachment of furring to the supporting wall is outside the scope of this evaluation.

5.2.3 Supporting wall assembly shall have a weather-resistant exterior envelope in accordance with IBC Section 1402.2, including a water-resistive barrier in accordance with Section 1403.2 when applicable.

5.2.4 Flashing shall be installed in accordance with IBC Section 1404.4, and IRC Section R703.4.

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 Wind design pressures determined from nominal design wind speeds (V_{asd}) in accordance with Section 1609.3.1 of the IBC and FBC shall not exceed the maximum allowable design pressures given in Tables 2 through 4.

6.3 *Trex Transcend® Open-Joint Cladding*, *Trex Transcend® Lineage® Open-Joint Cladding* and *Trex Signature® Open-Joint Cladding* are limited to exterior use on buildings of nonfire resistance-rated construction: IBC and FBC Type VB construction and all construction types permitted under the IRC.

6.4 The compatibility of all fasteners with supporting structure, including chemically treated wood, is not within the scope of this report and subject to approval by the code official.

6.5 Only those types of fasteners and fastening methods described in this report have been evaluated for the installation of *Trex Transcend® Open-Joint Cladding*, *Trex Transcend® Lineage® Open-Joint Cladding* and *Trex Signature® Open-Joint Cladding*. Other methods of attachment are outside the scope of this report.

6.6 The wood furring and wood furring attachment to the building structure is outside the scope of this report.

6.7 *Trex Transcend® Open-Joint Cladding*, *Trex Transcend® Lineage® Open-Joint Cladding* and *Trex Signature® Open-Joint Cladding* recognized in this report are manufactured in accordance with the manufacturer's approved quality control system with inspections by Intertek.

6.8 *Trex Transcend® Open-Joint Cladding*, *Trex Transcend® Lineage® Open-Joint Cladding* and *Trex Signature® Open-Joint Cladding* are manufactured under a quality control program with inspections by Intertek Testing Services NA, Inc.

7.0 SUPPORTING EVIDENCE

7.1 Reports of testing in accordance with ASTM D7032-17 *Standard Specification for Establishing Performance Ratings for Wood-Plastic Composite Deck Boards and Guardrail Systems (Guards or Handrails)*, including:

- Moisture Effect
- Temperature Effect
- Ultraviolet Resistance
- Freeze-Thaw Resistance
- Termite and Decay Resistance

7.2 Reports of testing to ASTM E330-14 *Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and curtain Walls by Uniform Static Air Pressure Difference*.

7.3 Reports of testing in accordance with ASTM E84-18b *Test Method for Surface Burning Characteristics of Building Materials.*

7.4 Reports of testing in accordance with AC524 *Acceptance Criteria for Wood-Plastic Composite Products Used as Exterior Siding* (Approved June 2021).

7.5 Reports of evaluation and engineering analysis for allowable fastener capacities in accordance with NDS-2018 *National Design Specification (NDS) for Wood Construction*.

7.6 Reports of evaluation and engineering analysis for AISI S100-16(2020) w/S2-20 *North American Specification for the Design of Cold-formed Steel Structural Members*.

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

8.0 IDENTIFICATION

Trex Transcend® Open-Joint Cladding, *Trex Transcend® Lineage® Open-Joint Cladding* and *Trex Signature® Open-Joint Cladding* are identified with the manufacturer's name (Trex Company), address and telephone number, the product name (*Trex Transcend® Open-Joint Cladding*, *Trex Transcend® Lineage® Open-Joint Cladding* or *Trex Signature® Open-Joint Cladding)* the Intertek Mark as shown below, and the Code Compliance Research Report number (CCRR-0325).



9.0 FLORIDA BUILDING CODE

9.1 Scope of Evaluation:

Trex Transcend® Open-Joint Cladding, *Trex Transcend® Lineage® Open-Joint Cladding* and *Trex Signature® Open-Joint Cladding* were evaluated for compliance with the *Florida Building Code – Building, Florida Building Code – Residential* and *Florida Building Code.*

9.2 Conclusion:

Trex Transcend® Open-Joint Cladding, *Trex Transcend® Lineage® Open-Joint Cladding* and *Trex Signature® Open-Joint Cladding*, described in Sections 2.0 through 7.0 of this Research Report, comply with the *Florida Building Code – Building and Florida Building Code – Residential*, subject to the following conditions:

- Use of the *Trex Transcend® Open-Joint Cladding*, *Trex Transcend® Lineage® Open-Joint Cladding* and *Trex Signature® Open-Joint Cladding* 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 e*valuation entity* and *quality assurance entity* pursuant to Florida Statute 553.842 – *Product Evaluation and Approval*.

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 *Trex Transcend® Open-Joint Cladding*, *Trex Transcend® Lineage® Open-Joint Cladding* or Trex Signature® Open-Joint Cladding by Intertek.

10.3 Reference to the Intertek Directory of Building Products (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 SECTION[1]	IRC SECTION[1]	FBC – Building[1]	FBC – Residential[1]
Physical Properties	1409.1 2612.2 1612.4 2612.4	--	1411.1 2612.2 2612.4	--
Surface Burning	1409.1 2612.3	R507.2.2	1411.1 2612.3	R507.2.2
Wind Load Resistance	1404.14	R703.1.2	1405.14	R703.1.2

[1] Section numbers may be different for earlier versions of the International and Florida codes.

TABLE 2 – TREX TRANSCEND® AND TREX TRANSCEND® LINEAGE® 1 X 6 OPEN-JOINT CLADDING ALLOWABLE DESIGN PRESSURES

Material	Min. Thickness	Spacing	FASTENER DESCRIPTION	ALLOWABLE DESIGN PRESSURE
2x Wood Furring[1]	1.5”	24” o.c.	Two (2) #10 x 2" *Starborn® Deckfast® Cap-Tor® xd* Composite Deck Screws -or- Two (2) #10 x 2" *Starborn® Deckfast®* Composite Deck Screws with *Pro Plug® System*	68 psf
2x Wood Furring[1]	1.5”	24” o.c.	Two (2) #10 x 1-7/8" *Starborn® Deckfast® Fascia System* Fascia Screws	73 psf
Steel Framing[2]	0.048”	24” o.c.	Two (2) #10 x 1-5/8" *Starborn® Deckfast® Metal* Composite Deck Screws (With Optional *Pro Plug® System*)	74 psf

[1] Wood furring shall be Spruce-Pine-Fir (SPF) or other wood with a specific gravity, G=0.42 or greater.
[2] Steel framing shall be cold-formed steel with a yield strength, fy=33 ksi or greater.

TABLE 3 –TREX TRANSCEND® LINEAGE® 1 X 4 OPEN-JOINT CLADDING ALLOWABLE DESIGN PRESSURES

Material	Min. Thickness	Spacing	FASTENER DESCRIPTION	ALLOWABLE DESIGN PRESSURE
2x Wood Furring[1]	1.5”	24” o.c.	Two (2) #10 x 2" *Starborn® Deckfast® Cap-Tor® xd* Composite Deck Screws -or- Two (2) #10 x 2" *Starborn® Deckfast®* Composite Deck Screws with *Pro Plug® System*	61 psf
2x Wood Furring[1]	1.5”	24” o.c.	Two (2) #10 x 1-7/8" *Starborn® Deckfast® Fascia System* Fascia Screws	51 psf
Steel Framing[2]	0.048”	24” o.c.	Two (2) #10 x 1-5/8" *Starborn® Deckfast® Metal* Composite Deck Screws (With Optional *Pro Plug® System*)	73 psf

[1.] Wood furring shall be Spruce-Pine-Fir (SPF) or other wood with a specific gravity, G=0.42 or greater.
[2.] Steel framing shall be cold-formed steel with a yield strength, fy=33 ksi or greater.

TABLE 4 – TREX SIGNATURE® 1 X 6 OPEN-JOINT CLADDING ALLOWABLE DESIGN PRESSURES

Material	Min. Thickness	Spacing	FASTENER DESCRIPTION	ALLOWABLE DESIGN PRESSURE
2x Wood Furring[1]	1.5”	24” o.c.	Two (2) #10 x 2" *Starborn® Deckfast® Cap-Tor® xd* Composite Deck Screws -or- Two (2) #10 x 2" *Starborn® Deckfast®* Composite Deck Screws with *Pro Plug® System*	84 psf
2x Wood Furring[1]	1.5”	24” o.c.	Two (2) #10 x 1-7/8" *Starborn® Deckfast® Fascia System* Fascia Screws	38 psf
Steel Framing[2]	0.048”	24” o.c.	Two (2) #10 x 1-5/8" *Starborn® Deckfast® Metal* Composite Deck Screws (With Optional *Pro Plug® System*)	61 psf

[1.] Wood furring shall be Spruce-Pine-Fir (SPF) or other wood with a specific gravity, G=0.42 or greater.
[2.] Steel framing shall be cold-formed steel with a yield strength, fy=33 ksi or greater.

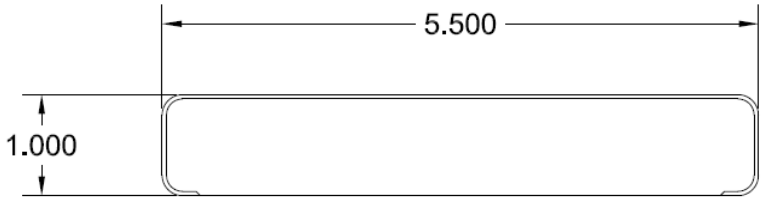


FIGURE 1 – TREX TRANSCEND® AND TREX TRANSCEND® LINEAGE® 1 X 6 OPEN-JOINT CLADDING

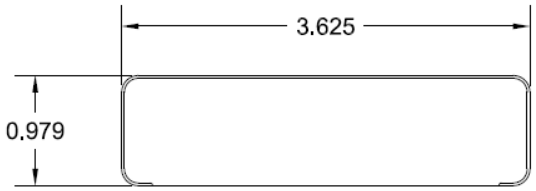


FIGURE 2 –TREX TRANSCEND® LINEAGE® 1 X 4 OPEN-JOINT CLADDING

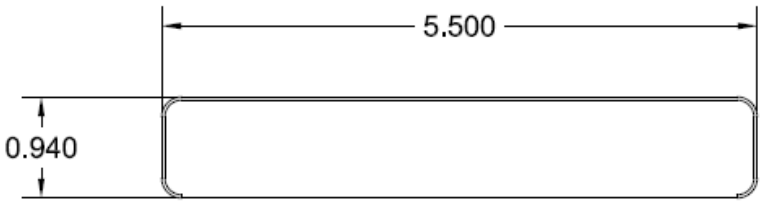


FIGURE 3 – TREX SIGNATURE® 1 X 6 OPEN-JOINT CLADDING