Description of Property: Please describe the building and surrounding environment. Include information on significant structures, landscape features, or other significant features of the property:

An existing 1 story frame with basement structure located at 10019 Pratt Place, built in 1986 per Maryland SDAT and stamped property plat. There is a asphalt driveway along the left side of the property from the street and a brick walkway that connects the driveway to the house entrance. There are two adjoining neighbors with structures similar in style and scale. The rear of the property is partially visible from the street, but largely obstructed by trees and the house. At the rear of the property there is an existing wood privacy fence, as shown on the property plat. An elevated wood deck at the rear of the structure and property has been demolished due to storm damage. The ledger board used for this deck is partially exposed, and there is damage to the siding where the deck once met the house (see photos).

Description of Work Proposed: Please give an overview of the work to be undertaken:

Work Item 1:	
Description of Current Condition:	Proposed Work:
Work Item 2:	
Description of Current Condition:	Proposed Work:
Work Item 3:	
Description of Current Condition:	Proposed Work:

HISTORIC AREA WORK PERMIT CHECKLIST OF APPLICATION REQUIREMENTS

	Required Attachments						
Proposed Work	I. Written Description	2. Site Plan	3. Plans/ Elevations	4. Material Specifications	5. Photographs	6. Tree Survey	7. Property Owner Addresses
New Construction	*	*	*	*	*	*	*
Additions/ Alterations	*	*	*	*	*	*	*
Demolition	*	*	*		*		*
Deck/Porch	*	*	*	*	*	*	*
Fence/Wall	*	*	*	*	*	*	*
Driveway/ Parking Area	*	*		*	*	*	*
Grading/Exc avation/Land scaing	*	*		*	*	*	*
Tree Removal	*	*		*	*	*	*
Siding/ Roof Changes	*	*	*	*	*		*
Window/ Door Changes	*	*	*	*	*		*
Masonry Repair/ Repoint	*	*	*	*	*		*
Signs	*	*	*	*	*		*



Code Compliance Research Report CCRR-0132

Issue Date: 12-01-2008 Revision Date: 03-27-2025 Renewal Date: 03-31-2026

DIVISION: 06 00 00 – WOOD, PLASTICS AND COMPOSITES Section: 06 63 00 – Plastic Railings

REPORT HOLDER: Trex® Company, Inc. 2500 Trex Way Winchester, VA 22601 (540) 542-6300

www.trex.com

REPORT SUBJECT:

Trex Transcend® Railing

Trex Select® Railing

Trex Enhance® Railing

1.0 SCOPE OF EVALUATION

- **1.1** This Research Report addresses compliance with the following Codes:
- 2024, 2021 and 2018 International Building Code® (IBC)
- 2024, 2021 and 2018 International Residential Code® (IRC)

NOTE: This Report references 2024 Code sections. Section numbers in earlier versions of the Codes may differ.

- **1.2** Trex® Transcend®, Select® and Enhance® railing systems have been evaluated for the following properties:
- Structural Performance
- Durability
- Surface Burning
- Decay Resistance
- Termite Resistance
- **1.3** Trex® Transcend®, Select® and Enhance® railing systems have been evaluated for the following uses:
- Trex® Transcend®, Select® and Enhance® railing systems are guardrails (guards) under the definitions of the referenced Codes and are intended for use on elevated walking areas in buildings and walkways, including stairs and ramps, as required by the referenced Codes.

- Guardrail systems are provided as level guards for level walking areas such as decks, balconies and porches, and sloped guards for open sides of stairways.
- Guardrail systems recognized in this Report may be used in One- and Two-Family Dwellings regulated by the IRC and all construction types regulated by the IBC in accordance with IBC Sections 705.2.2 and 705.2.3.1, Exceptions 2 and 3. Guardrails less than 42" high are limited to use in One- and Two-Family Dwellings (IRC). See Table 1 for additional restrictions based upon Use and Occupancy Classification.

2.0 STATEMENT OF COMPLIANCE

Trex® Transcend®, Select® and Enhance® railing systems 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** Railing systems include top and bottom rails, baluster spacers and rail inserts (*Transcend®* only), balusters, post sleeves, rail brackets, foot blocks and decorative moldings. See Table 1 for recognized railing dimensions.
- **3.2** Rails and post sleeves are wood-plastic composite extrusions with a PVC or acrylic cap layer, baluster spacers and rail inserts are PVC extrusions, and balusters are either wood-plastic composite or aluminum extrusions. Rail brackets, foot blocks and decorative moldings are injection-molded plastic parts.
- **3.3** Trex® Transcend® railing is produced in Classic White, Charcoal Black, Gravel Path, Rope Swing, Tree House and Vintage Lantern, consisting of the following components (see Figure 2):
- **3.3.1** The top rail is a crown profile with overall dimensions of 3.312" wide by 2.453" tall.



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- **3.3.2** The bottom rail is an "H" profile with overall dimensions of 3.000" wide by 2.004" tall.
- 3.3.3 Infill Options:
- **3.3.3.1** Balusters are available in a 1.418" square composite profile, 0.750" square aluminum profile or 0.750" round aluminum profile. Balusters are inserted into holes in baluster spacers snapped into the top and bottom rails. Rail inserts are installed into the top and bottom rails when using aluminum balusters.
- **3.3.3.2** Glass panel of 1/4 inch thick tempered glass. The glass panel is inserted into the top rail and slides up, to clear the bottom rail. The glass panel is aligned with the bottom insert and pushed down into the insert.
- **3.3.4** Rails are attached to posts with nylon brackets.
- **3.3.5** The post sleeve is a 4.450" square profile with three internal ribs on each wall.
- **3.4** Trex® Select® Classic railing is produced in Classic White and Charcoal Black, and Trex Enhance® railing is produced in Classic White, Charcoal Black, Saddle and Vintage Lantern. Both railing systems consist of the following components (see Figure 4):
- **3.4.1** The top and bottom rails are rectangular profiles with overall dimensions of 2.750" wide by 2.000" tall. The top rail is oriented flatwise, and the bottom rail is oriented edgewise.
- **3.4.2** Balusters are only available in a 0.750" round aluminum profile.
- **3.4.3** Rails are attached to posts with nylon brackets.
- **3.4.4** The post sleeve is a 4.450" square profile with three internal ribs on each wall.
- **3.5** *Trex*® *Select*® *T-Rail* railing is produced in Classic White. The railing system consist of the following components (see Figure 6):
- **3.5.1** The top rail is a T-shaped profile with top width of 3.500" and overall height of 2.960"

- **3.5.2** Balusters are available in a 1.000" square composite profile and a 0.750" round aluminum profile.
- 3.5.3 Rails are attached to posts with nylon brackets.
- **3.5.4** The post sleeve is a 4.450" square profile with three internal ribs on each wall.

4.0 PERFORMANCE CHARACTERISTICS

- **4.1** The guardrail systems described in this Report have demonstrated the capacity to resist the design loadings specified in Chapter 16 of the IBC and Section R301 of the IRC when tested in accordance with ICC-ES AC174 and ASTM D7032.
- **4.2** Structural performance has been demonstrated for a temperature range from -20 °F to 125 °F.
- **4.3** Materials used are deemed equivalent to preservative treated or naturally durable wood for resistance to weathering effects, decay and attack from termites. See Section 6.6 for limitations.
- **4.4** Materials used have a flame spread index of less than 200 when tested in accordance with ASTM E84.

5.0 INSTALLATION

5.1 General

Trex Transcend®, Select® and Enhance® railing systems 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 Trex® Transcend® Railing (Figure 1)

- **5.2.1** The top and bottom rails are attached via bracket connections to conventional 4x4 wood posts covered with composite post sleeves. See Table 2 for fastening schedule.
- **5.2.2** Baluster spacers are snapped into the top and bottom rails and secured by a friction fit, and balusters are inserted into holes punched in the baluster spacers. When using aluminum balusters, rail inserts are installed into the top and bottom rails prior to installing the baluster spacers.



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5.2.3 The foot block is an adjustable support installed between the deck surface and bottom rail using one #8-10 x 1-1/4" bugle head wood screw. At least one foot-block shall be installed at the midspan of the railing. For IBC use at spans over 6' OC, two foot-blocks shall be installed at the one-third points of the railing.

5.3 Trex® Select® Classic/Enhance® Railing (Figure 3)

- **5.3.1** The top and bottom rails are attached via bracket connections to conventional 4x4 wood posts covered with composite post sleeves. See Table 2 for fastening schedule.
- **5.3.2** Balusters are inserted into holes routed in the top and bottom rails.
- **5.3.3** The foot block is an adjustable support installed between the deck surface and bottom rail using one #8-10 x 1-1/4" bugle head wood screw. One foot block shall be installed at the midspan of the railing.

5.4 Trex® Select® T-Rail Railing (Figure 5)

- **5.4.1** The top and bottom rails are attached via bracket connections to conventional 4x4 wood posts covered with composite post sleeves. See Table 2 for fastening schedule.
- **5.4.2** Balusters are inserted into holes routed in the top and bottom rails.
- **5.4.3** The foot block is an adjustable support installed between the deck surface and bottom rail using one #8-10 x 1-1/4" bugle head wood screw. One foot block shall be installed at the midspan of the railing.
- **5.5** The wood in the supporting structure, including support posts, shall have a specific gravity of 0.55 or greater (Southern Yellow Pine or better) and a minimum thickness to allow full penetration of the bracket mounting screws.

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** See Section 1.3 for construction types and use classifications.
- **6.3** Conventional wood supports, including support posts for guardrails, are not within the scope of this Report and are subject to evaluation and approval by the building official. Supports must satisfy Section R507.10 of the 2024 IRC, satisfy the design load requirements specified in Chapter 16 of the IBC, and must provide suitable material for anchorage of the rail brackets. Where required by the building official, engineering calculations and details shall be provided.
- **6.4** Only those types of fasteners and fastening methods described in this Report have been evaluated for the installation of the products listed in Section 1.0; other methods of attachment are outside the scope of this Report.
- **6.5** Compatibility of fasteners and other metallic components with the supporting structure, including chemically treated wood, is not within the scope of this Report.
- **6.6** The wood-plastic composite material used in the *Trex*® guardrail systems described in this Report has not been evaluated for use in areas subject to Formosan termite attack.
- **6.7** The glass infill panel of railings are considered a hazardous location as defined by Sections 2406.4 of the IBC. Glass must be identified by permanent etching as required by Section 2406.3 of the IBC. Each section of glass must bear the manufacturer's name or mark and the applicable test standard (Class A of ANSI Z97.1 and Category II of 16 CFR 1201). Railings with glass infill are not approved for use in wind-borne debris regions as defined by the IBC in accordance with Section 2407.1.4.





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6.8 Trex® railing systems are manufactured in Winchester, VA, in accordance with the manufacturer's approved quality control system, with inspections by Intertek Testing Services, Inc.

7.0 SUPPORTING EVIDENCE

- **7.1** Drawings and installation instructions submitted by the manufacturer.
- **7.2** The reports of testing and engineering analysis demonstrating compliance with the performance requirements of ICC-ES AC174, *Acceptance Criteria for Deck Board Span Ratings and Guardrail Systems (Guards and Handrails)*, approved January 2012, editorially revised April 2024.
- **7.3** The reports of testing and engineering analysis demonstrating compliance with the performance requirements of ASTM D7032-21, Standard Specification for Establishing Performance Ratings for Wood-Plastic Composite and Plastic Lumber Deck Boards, Stair Treads, Guards, and Handrails; with additional testing including increased test loads to address 2021 IBC Section 2407.1.1 for assemblies that utilize a glass infill panel.
- **7.4** Documentation of an Intertek-approved quality control system for the manufacturing of products recognized in this Report.

8.0 IDENTIFICATION

The *Trex*® railing systems described in this Report shall be identified with labeling on the packaging to include the following:

8.1 Name and/or trademark of the manufacturer and the manufacturer's web address.

- **8.2** The following statement: "See CCRR-0132 at bpdirectory.intertek.com for use and performance levels." For railing systems limited to IRC use in Table 1, the label shall also include the phrase, "For Use in One- and Two-Family Dwellings Only."
- **8.3** The Intertek Code Compliance Research Report mark and number (CCRR-0132).



9.0 OTHER CODES

This section is not applicable.

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 – LEVEL GUARDRAIL SYSTEM BUILDING CODE RECOGNITION

TABLE 1 - LEVEL GOARDRAIL STSTEW BOILDING CODE RECOGNITION					
Guardrail System	Balusters	Guardrail System Size (Length x Height) (1)	Number of Foot Blocks	Code Recognition	
Trex Transcend®		72" x 36"	1	IRC – One- and Two- Family Dwellings	
	1.418" Square Composite Baluster or 0.750" Round Aluminum Baluster	72" x 42"	1	IRC – One- and Two- Family Dwellings IBC – All Use Groups	
		96" x 36"	1	IRC – One- and Two- Family Dwellings	
		96" x 42"	1	IRC – One- and Two- Family Dwellings	
	1/4" thick, 36" tall, 59-1/2" wide, Tempered Glass Panel	68" x 42"	1	IRC – One- and Two- Family Dwellings	
Trex Select® Classic	0.750" Round Aluminum Baluster	72" x 36"	1	IRC – One- and Two- Family Dwellings	
		72" x 42"	1	IRC – One- and Two- Family Dwellings	
		96" x 36" (see Note 2)	1	IRC – One- and Two- Family Dwellings	
		96" x 42" (see Note 2)	1	IRC – One- and Two- Family Dwellings	
Trex Select® T-Rail		72" x 36"	1	IRC – One- and Two- Family Dwellings	
	1.000" Square Composite Baluster or 0.750" Round Aluminum Baluster	72" x 42"	1	IRC – One- and Two- Family Dwellings	
		96" x 36" (see Note 3)	1	IRC – One- and Two- Family Dwellings	
		96" x 42" (see Note 3)	1	IRC – One- and Two- Family Dwellings	







TABLE 1 - LEVEL GUARDRAIL SYSTEM BUILDING CODE RECOGNITION (CONTINUED)

Trex Enhance®		72" x 36"	1	IRC – One- and Two-Family Dwellings	
	0.750" Round Aluminum	72" x 42"	1	IRC – One- and Two-Family Dwellings	
	Baluster	96" x 36" (see Note 2)	1	IRC – One- and Two-Family Dwellings	
		96" x 42" (see Note 2)	1	IRC – One- and Two-Family Dwellings	

⁽¹⁾Level railing length is the maximum clear length between supports. Railing height is the minimum installed height from the walking surface to the top of the top rail.

TABLE 2 – GUARDRAIL ASSEMBLY/FASTENING SCHEDULE

Connection	Fasteners
Trex Transcend®	
Rail Bracket to Post	Two #8-10 x 2" bugle head, #2 square drive, coated, steel wood screws
Rail Bracket to Rail	Three #8-18 x 1-1/4" pan head, #2 square drive, coated, steel self-drilling screws
Balusters to Rails	Inserted into holes in baluster spacers snapped into rails
Glass Infill Panel to Rails	Inserted into rails by snapping into the panel support molding
Foot Block to Bottom Rail	Inserted into pre-drilled hole in rail
Trex Select® Classic/Enhance®	
Rail Bracket to Post	Two #9-16 x 2" bugle head, #2 square drive, coated, steel wood screws
Rail Bracket to Rail	Three #8-18 x 1" pan head, #2 square drive, coated, steel self-drilling screws
Balusters to Rails	Inserted into holes in rails
Foot Block to Bottom Rail	Inserted into pre-drilled hole in rail
Trex Select® T-Rail	
Top Rail Bracket to Post	Two #9-16 x 2" flat head, #2 square drive, coated, steel screws
Top Rail Bracket to Rail	Four #8-18 x 1" pan head, #2 square drive, coated, steel self-drilling screws
Bottom Rail Bracket to Post	Two #9-16 x 2" flat head, Phillips drive, coated, steel screws
Bottom Rail Bracket to Rail	Three #8-18 x 1" pan head, #2 square drive, coated, steel self-drilling screws
Balusters to Rails	Inserted into holes in rails
Foot Block to Bottom Rail	Inserted into pre-drilled hole in rail

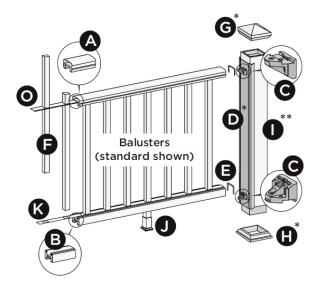


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⁽²⁾Guardrail system length greater than 72" requires aluminum reinforcement in top rail (see Figure 4).

⁽³⁾Guardrail system length greater than 72" requires aluminum reinforcement in top rail (see Figure 6).

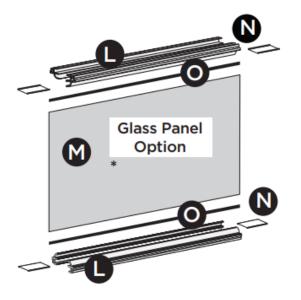




- A. Crown or Universal Rail
- C. Railing Support Bracket (RSB)
- D. TrexExpress™ Railing Assembly Template*
- E. Rail gaskets

B. Universal Rail

- F. Balusters
- G. Post sleeve cap*
- H. Post sleeve skirt*
- Post sleeve 4" x 4" (102 mm x 102 mm) or 6" x 6" (152 mm x 152 mm)**
- J. Adjustable foot block (quantity of one is required for all railing span lengths)
- K. Baluster spacer



Trex Transcend Glass Panel Parts List

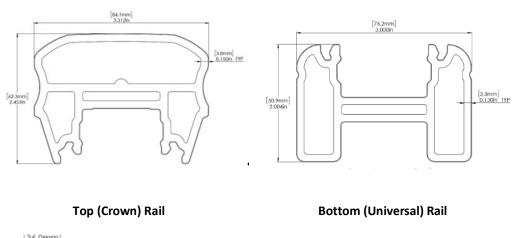
- L. Panel support molding
- M. Tempered glass panel*
- N. Panel support molding spacer
- O. Weather-stripping





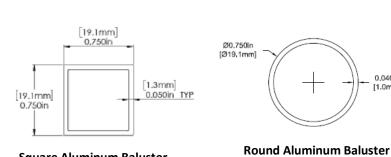






[36.0mm] 1.418in [2.3mm] 0.090in TYP [36.0mm] 1.418in

Square Composite Baluster

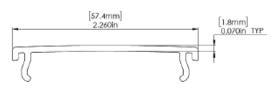


Square Aluminum Baluster

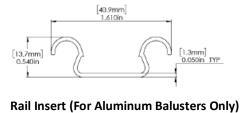


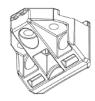
0.040ln

[1.0mm]

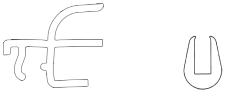


Baluster Spacer





Rail Bracket



Glass Panel Support Molding and Gasket

FIGURE 2 - TREX® TRANSCEND® GUARDRAIL COMPONENTS

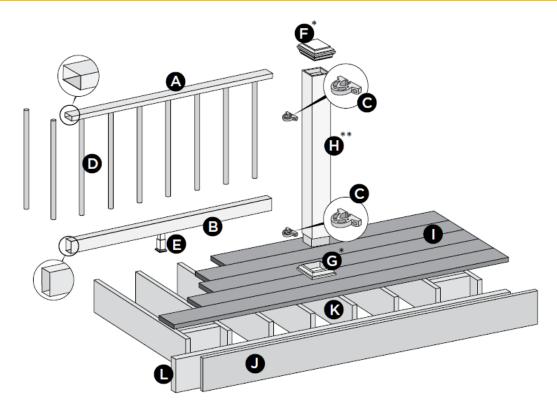


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SFT-CCRR-OP-40b Version: 21 December 2017





- A. Top Rail
- B. Bottom Rail
- C. Brackets
- D. Aluminum Round Balusters
- E. Adjustable Foot Block
- F. Post Sleeve Cap*
- G. Post Sleeve Skirt*
- H. Post Sleeve**
 - 4" x 4" x 48"
- Trex Decking
- J. Trex Fascia
- K. Code-approved Wood Joist***
 - 2" x 8"
- L. Code-approved Wood Rim Joist***
 - 2" x 8" or Larger

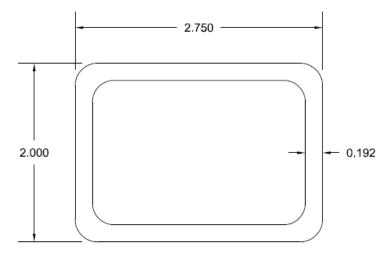
FIGURE 3 – TREX® SELECT® CLASSIC/ENHANCE® RAILING ASSEMBLY



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2.750in 0.125in TYP

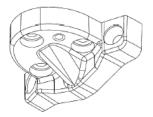
2.000in

Top Rail

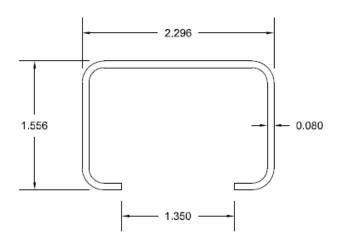
Ø0.750ln [Ø19.1mm]

0.040ln [1.0mm]

Bottom Rail



Round Aluminum Baluster



Rail Bracket

Top Rail Aluminum Reinforcement

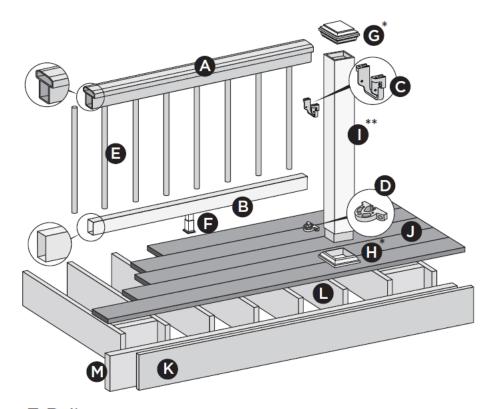
FIGURE 4 – TREX® SELECT® CLASSIC/ENHANCE® GUARDRAIL COMPONENTS





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- A. T-Rail
- B. Bottom Rail
- C. T-Rail Brackets
- D. Bottom Rail Brackets
- E. Balusters
- F. Adjustable Foot Block
- G. Post Sleeve Cap*
- H. Post Sleeve Skirt*
- I. Post Sleeve**- 4" x 4" x 48"
- J Trex Decking
- K. Trex Fascia
- L. Code-approved Wood Joist 2" x 8"
- M. Code-approved Wood Rim Joist 2" x 8" or Larger

FIGURE 5 - TREX® SELECT® T-RAIL RAILING ASSEMBLY



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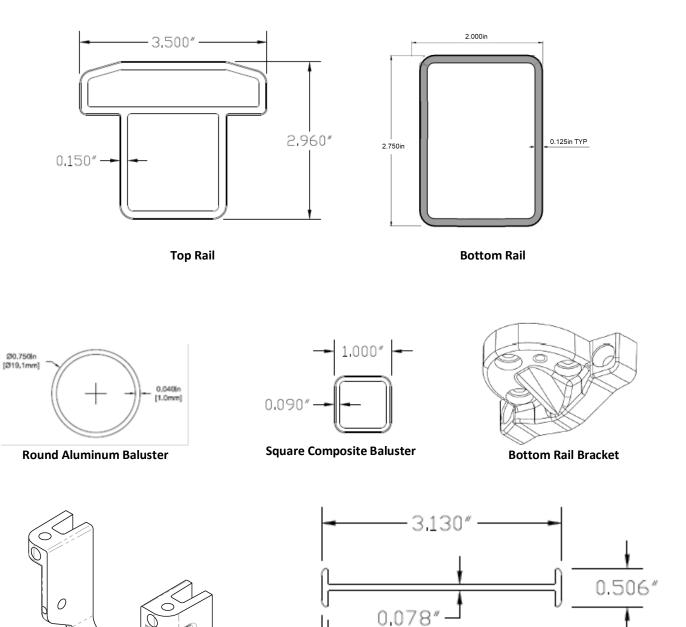


FIGURE 6 – TREX® SELECT® T-RAIL GUARDRAIL COMPONENTS

Top Rail Reinforcement



Top Rail Bracket





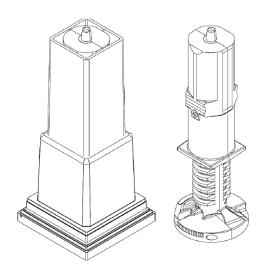


FIGURE 7 – FOOT BLOCK

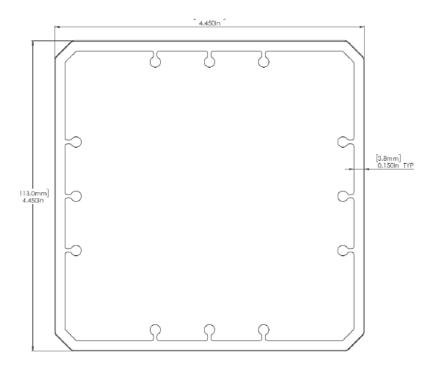


FIGURE 8 – 4X4 POST SLEEVE





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Millions of families have found shelter and peace of mind under a Timberline® roof.

And now, a good thing just got even better again.





It's never just a roof. It's a promise, kept.

Providing a home means making a promise — of shelter, security, and stability. It says to the people who count on you, "You're going to be safe, dry, and warm under this roof."

Choosing a Timberline HDZ® roof is a great way to help keep that promise.

It's our first shingle ever to come with patented LayerLock® Technology. That means it's engineered for the best possible installation.

It's a shingle that helps your roofer do their best work

LayerLock® Technology strengthens the bond between layers of your Timberline HDZ® shingles. To help your roofer give you the best possible installation. And to help you rest easy when the wind is howling outside.

Here's how it works:

The strength added by LayerLock® Technology allowed GAF to create the StrikeZone® nailing area — the industry's widest nail zone — which offered 99.9% nailing accuracy in our test.1

LayerLock® Technology also powers the industry's first wind warranty with no maximum wind speed limitation. Timberline HDZ® shingles are eligible for the WindProven™ Limited Wind Warranty when installed with the required combination of four qualifying GAF accessories.²



¹ Results based on study conducted by Home Innovation Research Labs, an independent research lab, comparing installation of Timberline HD® shingles to Timberline HDZ® shingles on a 16-square roof deck using standard 4-nail nailing pattern under controlled laboratory conditions. Actual results may vary.

² 15-year WindProven[™] Limited Wind Warranty on GAF shingles with LayerLock[®] Technology requires the use of GAF starter strips, roof deck protection, ridge cap shingles, and leak barrier or attic ventilation. See GAF Roofing System Limited Warranty for complete coverage and restrictions. Visit gaf.com/LRS for qualifying GAF products. For installations not eligible for the GAF WindProven[™] Limited Wind Warranty, see the GAF Shingle & Accessory Limited Warranty.



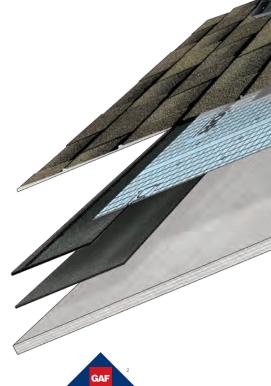
It's a system, built to protect

A Timberline HDZ® roof is so much more than shingles. It's layers of protection, working together to help keep your home safe from rain, snow, sun, and wind.

In fact, installing 4 qualifying GAF accessories — GAF starter strips, roof deck protection, ridge cap shingles, and either leak barrier or attic ventilation — in one roof system makes Timberline HDZ® shingles eligible for the WindProven™ Limited Wind Warranty.¹

Timberline HDZ® shingles also feature GAF time-release algae-fighting technology, for long-lasting algae-fighting power, and come with a 25-year StainGuard Plus™ Algae Protection Limited Warranty against blue-green algae discoloration.²

Visit gaf.com/LRS for qualifying GAF products.

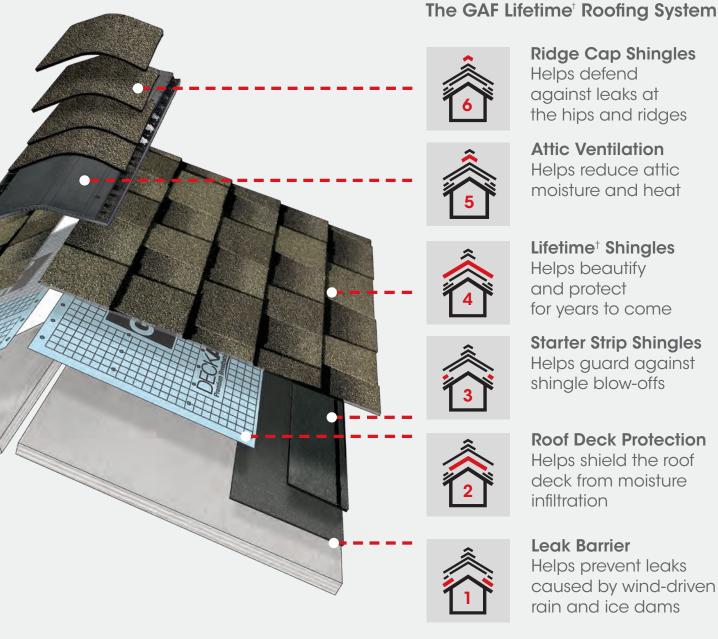




LayerLock® Technology mechanically fuses the common bond between overlapping shingle layers. The added strength at the common bond powers the StrikeZone® — the industry's widest nailing area.

¹ 15-year WindProven[™] Limited Wind Warranty on GAF shingles with LayerLock[®] Technology requires the use of GAF starter strips, roof deck protection, ridge cap shingles, and leak barrier or attic ventilation. See *GAF Roofing System Limited Warranty* for complete coverage and restrictions. Visit gaf.com/LRS for qualifying GAF products. For installations not eligible for the *GAF WindProven*[™] *Limited Wind Warranty*, see the *GAF Shingle & Accessory Limited Warranty*.

² 25-year StainGuard Plus™ Algae Protection Limited Warranty against blue-green algae discoloration is available only on products sold in packages bearing the StainGuard Plus™ logo. See GAF Shingle & Accessory Limited Warranty for complete coverage and restrictions and qualifying products.



Ridge Cap Shingles

Helps defend against leaks at the hips and ridges

Attic Ventilation

Helps reduce attic moisture and heat

Lifetime[†] Shingles

Helps beautify and protect for years to come

Starter Strip Shingles

Helps guard against shingle blow-offs

Roof Deck Protection

Helps shield the roof deck from moisture infiltration

Leak Barrier

Helps prevent leaks caused by wind-driven rain and ice dams

Install any GAF Lifetime[†] shingle and at least 3 qualifying GAF accessories and get a Lifetime[†] Limited Warranty on your qualifying GAF products plus

non-prorated coverage for the first 10 years. For even stronger coverage, ask your GAF factory-certified contractor¹ about enhanced GAF warranties.



- [†] Lifetime refers to the length of warranty coverage provided and means as long as the original individual owner(s) of a single-family detached residence [or eligible second owner(s)] owns the property where the qualifying GAF products are installed. For other owners/structures, Lifetime coverage is not applicable. Lifetime coverage on shingles requires the use of GAF Lifetime shingles only. See the GAF shingle & Accessory Limited Warranty for complete coverage and restrictions. Visit gaf.com/LRS for qualifying GAF products. Lifetime coverage on shingles and accessories requires the use of any GAF Lifetime shingle and at least 3 qualifying GAF accessories. See the GAF Roofing System Limited Warranty for complete coverage and restrictions. For installations not eligible for the GAF Roofing System Limited Warranty, see the GAF Shingle & Accessory Limited Warranty. Visit gaf.com/LRS for qualifying GAF products.
- ¹ Contractors enrolled in GAF certification programs are not employees or agents of GAF, and GAF does not control or otherwise supervise these independent businesses. Contractors may receive benefits, such as loyalty rewards points and discounts on marketing tools from GAF for participating in the program and offering GAF enhanced warranties, which require the use of a minimum amount of GAF products. Your dealings with a Contractor, and any services they provide to you, are subject to the Contractor Terms of Use. Visit gaf.com/gaf-contractor-terms-of-use for details



Weathered Wood

The perfect neutral color, Weathered Wood complements a broad range of hues and works well with sage, cream, ivory, and beige.



Charcoal

Charcoal is the most neutral of shades, and works wonderfully with blues, grays, whites, yellow, gold, sage, and green.



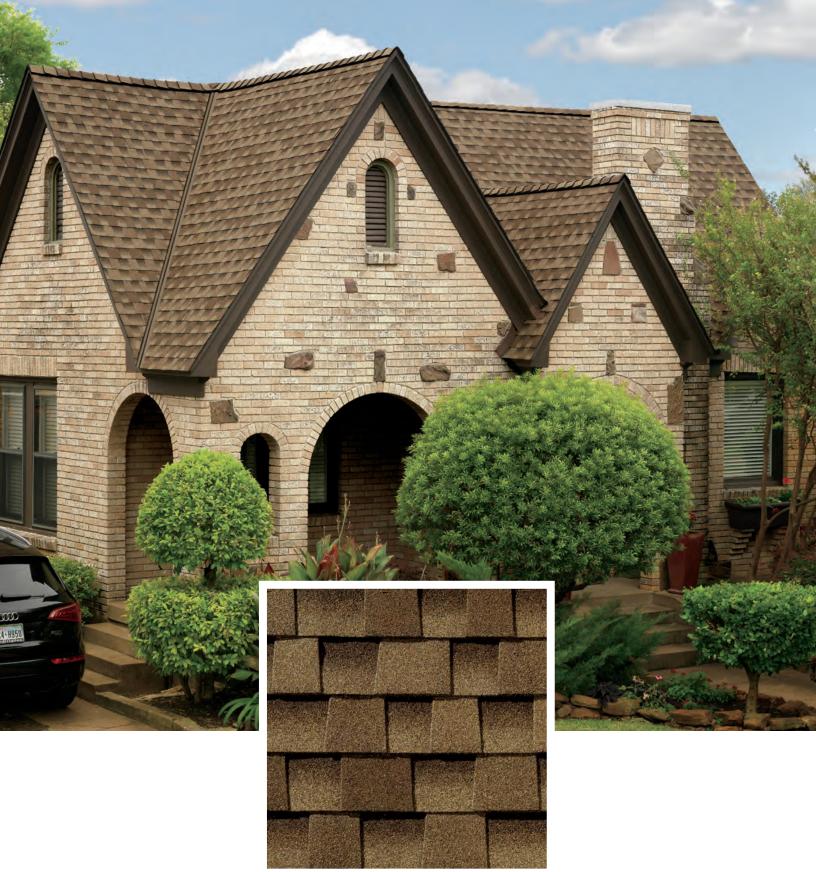
Pewter Gray

Pewter Gray can add dramatic counterpoint to contemporary exterior color palettes, as well as to stucco or brick facades.



Barkwood

The neutral brown Barkwood emulates wood and coordinates well with warm colors like beige, taupe, cream, gold, and yellow.



Shakewood

An appealing blend of browns, tans, and gold, warm radiant Shakewood pairs equally well with neutral beige and clay tones, as well as deeper jewel tones.



Hickory

An inviting brown shade with a red undertone, Hickory is an excellent companion to brick and stone homes and works well with browns, beiges, yellows, and golds.



Slate

A cool gray with a beautiful green undertone, Slate coordinates well with both grays and greens, as well as with white, cream, and ivory exteriors.



Mission Brown

Emulating the rustic shades and tones of the earth, Mission Brown provides a simple natural backdrop that allows other colors to appear richer and brighter.



Hunter Green

A rich color with dramatic undertones, Hunter Green makes people take notice.



Nantucket Morning

Harvest Blend Color

Features cool gray tones that partner perfectly with blues and grays.



Appalachian SkyHarvest Blend Color

Appalachian Sky offers a subtle variety of dark grays, black, and browns, bringing appealing definition to homes with brick facades.



Golden Harvest

Harvest Blend Color

A striking color that provides warmth to almost any siding or brick, this blend also offers exceptional contrast, for a light, yet colorful roof.



Cedar Falls

Harvest Blend Color

The clay-colored background and subtle gray highlights create a refined and polished look that offers a wonderful complement to stone.

Color Availability



Nationally Available Colors



Harvest Blend Colors

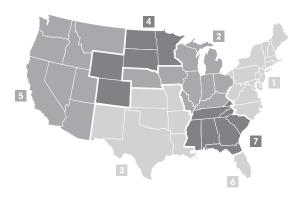


Regionally Available Colors (See next page for details.)



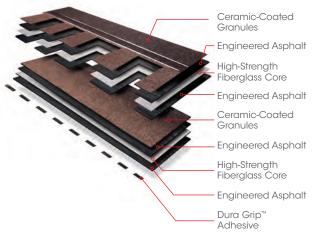
Timberline HDZ® Availability

Color Availability Chart		1	2	3	4	5	6	7
Most Popular Color	's:							
Barkwood		•			•	•		•
Charcoal		•			•			•
Hickory		•			•			•
Hunter Green		•			•			•
Mission Brown		•			•			•
Pewter Gray		•			•			•
Shakewood		•			•			•
Slate		•			•			•
Weathered Wood		•			•			•
Harvest Blend Colo	rs:							
Nantucket Morning		•	•	•	•		•	•
Appalachian Sky		•			•			•
Golden Harvest		•			•			•
Cedar Falls		•			•			•
Regional Colors:								
Birchwood					•			•
Biscayne Blue		•						
Copper Canyon*						•		
Driftwood								•
Fox Hollow Gray		•						
Golden Amber*								
Oyster Gray		•						•
Patriot Red		•						
Sunset Brick								
Williamsburg Slate		•						



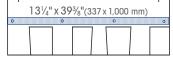
* Rated by the Cool Roof Rating Council (CRRC); can be used to comply with 2022 Title 24 Part 6 Cool Roof Requirements of the California Code of Regulations.

The protective layers of a Timberline HDZ® shingle



Product/System Specifics

- Fiberglass asphalt construction
- Dimensions (approx.): 13 ¼" x 39 ¾"
 (337 mm x 1,000 mm)
- Exposure: 5 5/8" (143 mm)
- Bundles/Square: 3
- Pieces/Square: 64
- StainGuard Plus[™] Algae Protection Limited Warranty¹
- Hip/Ridge: TimberTex®3;
 TimberCrest®;
 Seal-A-Ridge®3; Z®Ridge; Ridglass®
- Starter: Pro-Start®; QuickStart®; WeatherBlocker™



Applicable Standards & Protocols:

- Passes UL 2218 Impact-Resistance Test with Class 3 rating
- State of Florida approved
- Classified by UL in accordance with ICC-ES AC438
- Meets ASTM D7158, Class H
- Meets ASTM D3161, Class F
- Meets ASTM D3018, Type 1
- Meets ASTM D3462²
- Miami-Dade County Product Control approved
- ICC-ES Evaluation Reports ESR-1475 and ESR-3267
- Meets Texas Department of Insurance Requirements
- Birchwood, Copper Canyon, and Golden Amber are rated by the CRRC; Can be used to comply with 2022 Title 24 Part 6 Cool Roof Requirements of the California Code of Regulations.
- ¹ 25-year StainGuard Plus[™] Algae Protection Limited Warranty against blue-green algae discoloration is available only on products sold in packages bearing the StainGuard Plus[™] logo. See *GAF Shingle & Accessory Limited Warranty* for complete coverage and restrictions and qualifying products.
- ² Periodically tested by independent and internal labs to ensure compliance with ASTM D3462 at time of manufacture.
- ³ Harvest Blend colors are only available on TimberTex® and Seal-A-Ridge®.

TimberTex® and TimberCrest® Premium Ridge Cap Shingles

Hip & ridge cap shingles accentuate the natural beauty of your architectural shingle roof. They're the perfect finishing touch that helps defend against leaks at the hips and ridges.

gaf.com/ridgecaps





TimberTex® and TimberCrest® premium ridge cap shingles are designed to complement the color of your Timberline® shingles. To ensure the closest color consistency for your roof, ask your contractor to use genuine TimberTex® or TimberCrest® premium ridge cap shingles.¹

- Accentuate the beauty of your newly installed shingle roof
- Protect against leaks and blow-offs at the hip and ridge areas of your roof
- Complement the color of your GAF shingles with hip and ridge cap shingles manufactured by GAF
- 25-year StainGuard Plus[™] Algae Protection Limited Warranty² against blue-green algae discoloration uses GAF time-release algae-fighting technology to help protect your ridge cap shingles from unsightly stains.

Also available¹

STAINGUARD





¹ These products are not available in all areas. See gaf.com/ridgecapavailability for details.

² 25-year StainGuard Plus™ Algae Protection Limited Warranty against blue-green algae discoloration is available only on products sold in packages bearing the StainGuard Plus™ logo. See *GAF Shingle & Accessory Limited Warranty* for complete coverage and restrictions and qualifying products.



Here's why Timberline HDZ® shingles are our most popular shingle. First, LayerLock® unlocks our WindProven™ Limited Wind Warranty with no maximum wind speed limitation when installed with the required combination of GAF accessories.¹ Second, our time-release algae-fighting technology unlocks our 25-year StainGuard Plus™ Algae Protection Limited Warranty² against blue-green algae discoloration. Add GAF hip and ridge cap shingles and starter strips with the StainGuard Plus™ Algae Protection Limited Warranty² for protection from eave to ridge.

Offer your customers Timberline HDZ® — the shingle that just keeps getting better. Only from GAF.

Find out more at gaf.com/StainGuardPlus



We protect what matters most™



¹ 15-year WindProven[™] Limited Wind Warranty on Timberline HDZ® shingles requires the use of GAF starter strips, roof deck protection, ridge cap shingles, and leak barrier or attic ventilation. See GAF Roofing System Limited Warranty for complete coverage and restrictions. Visit gaf.com/LRS for qualifying GAF products. For installations not eligible for the WindProven™ Limited Wind Warranty, see GAF Shingle & Accessory Limited Warranty for complete coverage and restrictions.

² 25-year StainGuard Plus™ Algae Protection Limited Warranty against blue-green algae discoloration is available only on products sold in packages bearing the StainGuard Plus™ logo. See GAF Shingle & Accessory Limited Warranty for complete coverage restrictions and qualifying products.

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Decking

Stylish composite decking outperforms wood for hassle-free outdoor living





Highly Durable

Composite deck boards that stand up to both weather and weekend mishaps alike—they won't rot, warp, splinter, fade or stain.





Easy Care & Cleanup

Our boards need no sanding or staining. No kidding. Easy soap & water cleanup keeps decking like new.





Always Green

Sustainably made in the U.S.A. using up to 95% recycled plastic film and reclaimed sawdust.



Heat Mitigating

Deck colors with this symbol are engineered with heatmitigating technology to be noticeably cooler than similar colored boards in the same sun and heat conditions.*



Railing

Metal and composite collections make it easy to find your style and frame your view



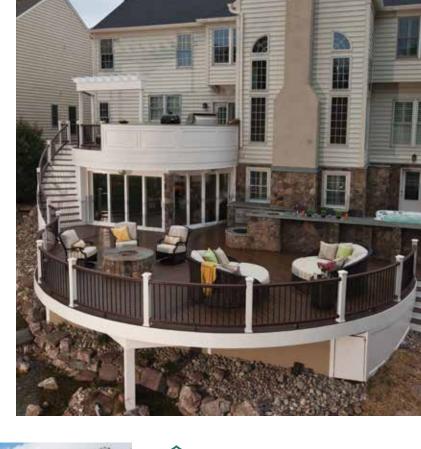
More Material Options

From traditional composites to sleek metal offerings, our wide selection of safe and stylish railing options offers more choices for your build.



Elevated Style

With cable, mesh, glass and baluster infill options, you can achieve a look that suits your style and is a fashionable alternative to standard wood or vinyl railing.







Durability to Match our Decking

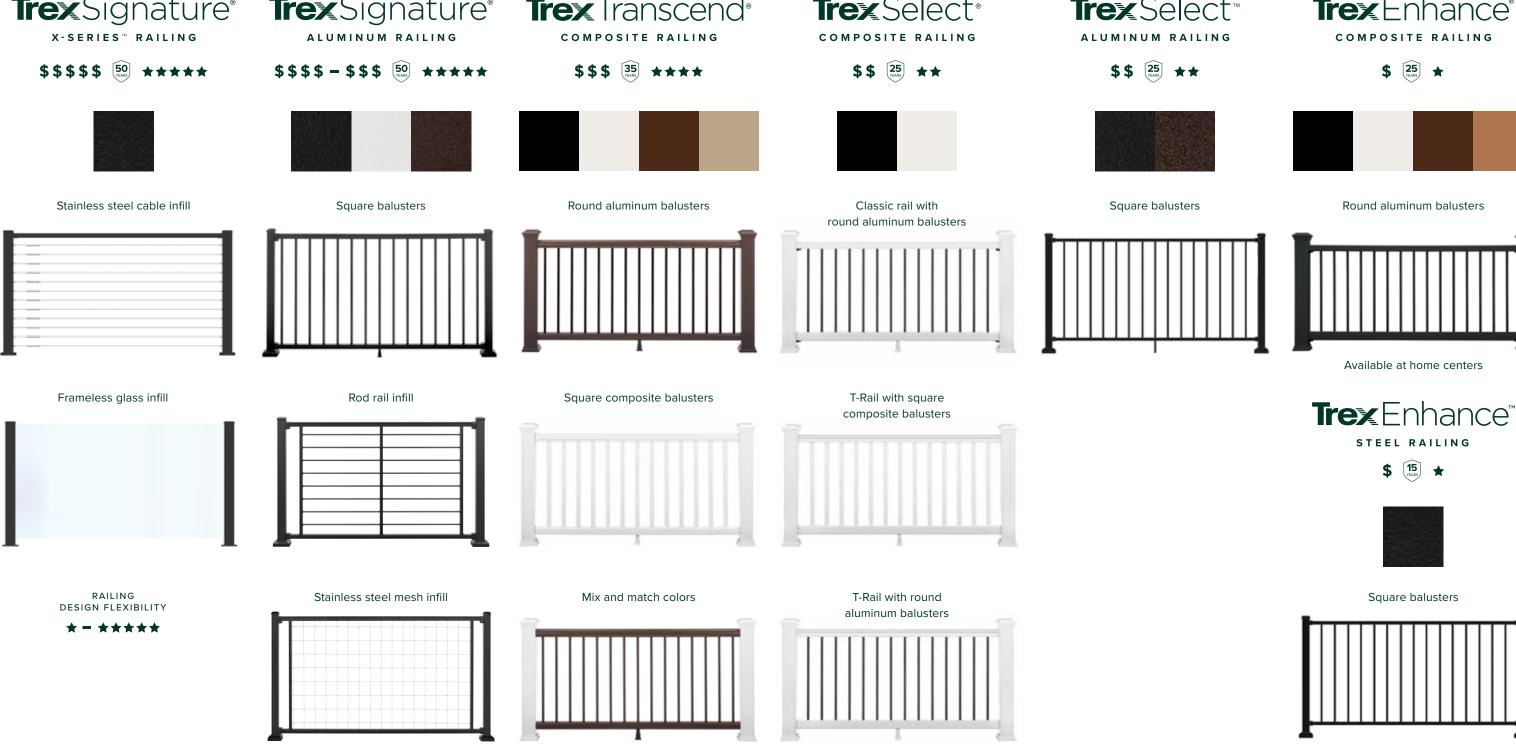
Built with the same outstanding durability as Trex decking—your railing is engineered to endure whatever Mother Nature sends its way.



Easy Installation

Deck railing kits, pre-assembled panels and online resources make installation simple.





Select™ steel mesh railing

Cocktail rail

Glass infill



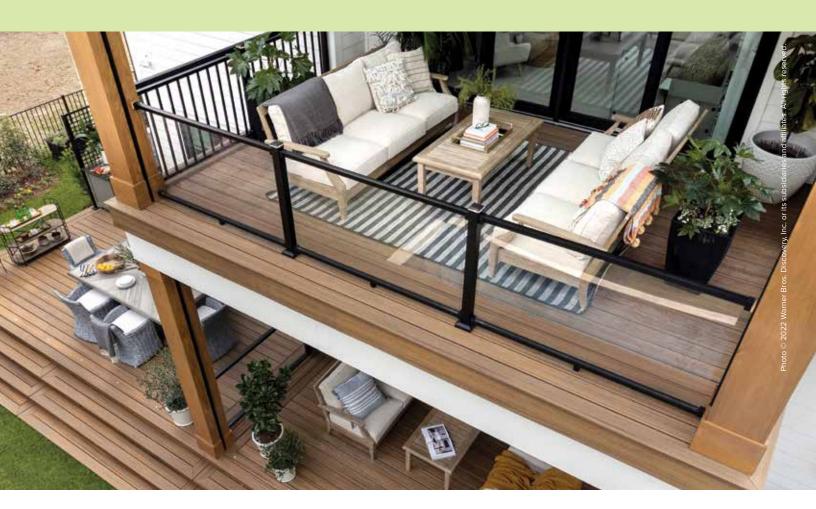


Shop all of our products to complete your dream outdoor space



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Deck Drainage Outdoor Furniture Outdoor Kitchens Pergola Fencing Lattice Spiral Stairs Privacy Screens Shade Panels Cornhole



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Decking Comparison



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Code Compliance Research Report CCRR-0301

Issue Date: 03-20-2019 Revision Date: 03-27-2025 Renewal Date: 03-31-2026

DIVISION: 06 00 00 – WOOD, PLASTICS AND COMPOSITES Section: 06 53 00 - Plastic Decking

REPORT HOLDER:

TREX COMPANY, INC. 2500 Trex Way Winchester, VA 22601 www.trex.com

REPORT SUBJECT:

TREX Enhance® Basics and Naturals composite deck boards
TREX Select® 1x6 and 2x6 composite deck boards
TREX Transcend® Tropicals and Earth Tones 1x6 and 2x6
composite deck boards
TREX Transcend® Lineage® composite deck boards
TREX Signature® composite deck boards
TREX® Composite Deck Board

1.0 SCOPE OF EVALUATION

- **1.1** This Research Report addresses compliance with the following Codes:
- 2024, 2021 and 2018 International Building Code® (IBC)
- 2024, 2021 and 2018 International Residential Code® (IRC)

NOTE: This report references 2024 Code sections. Section numbers in earlier versions of the Codes may differ.

- **1.2** *TREX*® deck boards have been evaluated for the following properties:
- Structural performance
- Durability
- Surface Burning
- Decay Resistance
- Termite Resistance
- Wind Uplift
- **1.3** TREX® deck boards have been evaluated for the following uses:
- Exterior walking surface on exterior decks, balconies, porches walkways and stair tread.

 The deck boards identified in this report may be used in One- and Two-Family Dwellings regulated by the IRC and other construction types regulated by the IBC in accordance with IBC Section 705.2.3 *Projection Protection*, where fire-resistance rated floor construction is not required for the deck or balcony.

2.0 STATEMENT OF COMPLIANCE

TREX® deck boards 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® deck boards are co-extruded and semi-capped composite material composed of polyethylene and wood fiber.
- **3.2** TREX Enhance® Basics and Naturals solid and grooved edged boards measure a nominal 1 inch thick and 5-1/2 inch wide and have flutes running the entire length along the bottom of the deck board. Grooved edge deck boards additionally include 5/16 inch deep by 1/8-inch-high grooves on each of the long edges. Two profiles are produced, Enhance 2.0 with five flutes on the backside and Enhance with four flutes on the backside. See Figures 1 and 2.
- **3.2.1** TREX Enhance® Basics and Naturals are available in ten colors:
- **3.2.1.1** Basics are solid colors available as Beach Dune, Clam Shell, Saddle and Tide Pool.
- **3.2.1.2** Naturals are a solid base color with streaks available as Cinnamon Cove, Coastal Bluff, Foggy Wharf, Honey Grove, Rocky Harbor and Toasted Sand.
- **3.3** TREX Select® are provided in two thicknesses; 1x6 measuring a nominal 5-1/2 inch wide and 7/8 inch thick, and 2x6 measuring a nominal 5-1/2 inch wide and 1-3/8 inch



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thick. See Figure 3. 1x6 grooved edge deck boards include a 5/16 inch deep by 1/8-inch-high groove on each of the long edges.

- **3.3.1** TREX Select® are available in five colors: Madeira, Pebble Grey, Saddle, Winchester Gray and Woodland Brown.
- **3.4** TREX Transcend® Tropicals and Earth Tones are provided in two thicknesses; 1x6 measuring a nominal 5-1/2 inch wide and 15/16 inch thick, and 2x6 measuring a nominal 5-1/2 inch wide and 1-3/8 inch thick. See Figure 4. 1x6 grooved edge deck boards include a 5/16 in. deep by 1/8 in. high groove on each of the long edges.
- **3.4.1** TREX Transcend® Tropicals and Earth Tones are available in eight colors: Gravel Path, Havana Gold, Island Mist, Lava Rock, Rope Swing, Spiced Rum, Tiki Torch and Vintage Lantern.
- **3.5** TREX Transcend® Lineage® measures nominally 5-1/2 inch wide and 15/16 inch thick. See Figure 5. Grooved edge deck boards include a 5/16 in. deep by 1/8 in. high groove on each of the long edges.
- **3.5.1** TREX Transcend® Lineage® are available in seven colors: Biscayne, Carmel, Hatteras, Island Mist Lineage, Jasper, Rainier and Salt Flat.
- **3.6** TREX Signature® solid and grooved boards measure a nominal 1 in. thick and 5-1/2 in. wide. Grooved deck boards additionally include 5/16 in. deep by 1/8 in. high grooves on each of the long edges. The top surface has an embossed simulated wood-grain pattern.
- **3.6.1** TREX Signature® is available in two colors: Whidbey and Ocracoke.
- **3.7** TREX® Composite Deck Boards are provided in one size; 1x6 measuring a nominal 5-1/2 inch wide and 7/8 inch thick. See Figure 7. 1x6 grooved edge deck boards include a 5/16 inch deep by 1/8-inch-high groove on each of the long edges.
- **3.7.1** TREX® Composite Deck Boards are available in one color: Sandy Shores.

4.0 PERFORMANCE CHARACTERISTICS

- **4.1** TREX® deck boards are rated for uniform live load ratings as identified in Table 2.
- **4.2** Deck boards used as stair treads are rated for the codeprescribed concentrated load equal to 300 lbs. when installed with a maximum support spacing identified in Table 2. Deck boards used as stair treads shall be installed in a minimum two-span condition.
- **4.3** TREX® deck boards have wind uplift resistance ratings as indicated in Table 2 with the fastening specified.
- **4.4** TREX® deck boards have a flame spread index of less than 200 when tested in accordance with ASTM E84.
- **4.5** Materials are deemed equivalent to preservative treated or naturally durable wood for resistance to weathering effect, attack from termites, and fungus decay.
- **4.6** Structural performance has been demonstrated for a temperature range from -20 °F to 125 °F.

5.0 INSTALLATION

- **5.1** TREX® deck boards 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** Decking can be installed on full runs or uniformly staggered on the deck support structure. See Table 1 for fastening descriptions and uplift ratings.

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** Deck boards placed at an angle other than 90 degrees to the supporting joist will require support framing at a reduced spacing such that the span of the deck board does not exceed the maximum span in Table 2.



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- **6.3** The wind uplift resistance rating recognized in this report is based on attachment to treated Southern Pine framing (specific gravity, G=0.55). Installation on wood framing with a lesser specific gravity may result in a lower wind uplift rating.
- **6.4** Where required by the building official, engineering calculations and details shall be provided. The calculation shall verify that the anchorage complies with the building code for the type of framing and condition of the supporting construction.
- **6.5** Compatibility of the supporting construction materials with all metal fasteners are subject to approval by the code official.
- **6.6** The deck boards have not been evaluated for use in areas subject to Formosan termite attack.
- **6.7** TREX® deck boards are manufactured 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 ICC-ES AC174, Acceptance Criteria for Deck Board Span Ratings and Guardrail Systems (Guards and Handrails), approved January 2012, editorially revised April 2024.
- **7.3** The reports of testing and engineering analysis demonstrating compliance with the performance requirements of ASTM D7032-21, Standard Specification for Establishing Performance Ratings for Wood-Plastic Composite and Plastic Lumber Deck Boards, Stair Treads, Guards, and Handrails and ANSI/AWC NDS-2015 Wind Uplift Analysis.

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

8.0 IDENTIFICATION

TREX® deck boards are identified with the manufacturer's name (TREX Company, Inc.) the website address www.trex.com, the product name, the Intertek Mark as shown below and, the Code Compliance Research Report number (CCRR-0301).



9.0 OTHER CODES

This section is not applicable.

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

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Table 1 – Fastening Schedule and Wind Uplift Ratings

Product		Fastening Description		
_	Solid	Two #8 x 2-1/2 in. stainless steel screws on support framing spaced 16 in. on center		
Trex Enhance® Basics and Naturals	Grooved	Trex Hideaway® Hidden Fastener system on support framing spaced 16 in. on center using one #8 x 1-5/8 in. trim head stainless screw as supplied with the clips. Stainless steel Trex Hideaway® Start Clips are attached to the ledger board at each joist location with one #8-10 x 1-5/8" star drive stainless screw. See Figure 7.		
Trex Select®	1x6 Solid	Two #10 x 2-3/4-inch TrapEase II Composite Deck Screws on support framing spaced 16-inch span		
	1x6 Grooved	Trex Hideaway® Hidden Fastener system on support framing spaced 16 in. on center using one #8 x 1-5/8 in. trim head stainless screw as supplied with the clips. Stainless steel Trex Hideaway® Start Clips are attached to the ledger board at each joist location with one #8-10 x 1-5/8" star drive stainless screw. See Figure 7.		
	2x6 Solid	Two #8 (0.178 in. major dia.), 2-1/2-inch long HEADDCOTE stainless steel screws on support framing spaced 16 in. on center	429 psf	
		Two #8 (0.178 in. major dia.), 2-1/2-inch long HEADDCOTE stainless steel screws on support framing spaced 24 in. on center	286 psf	
Trex Transcend® Tropical and Earth Tones	1x6 Solid	Two #8 (0.178 in. major dia.), 2-1/2-inch long HEADDCOTE stainless steel screws on support framing spaced 16 in. on center		
	1x6 Grooved	Trex Hideaway® Hidden Fastener system on support framing spaced 16 in. on center using one #8 x 1-5/8 in. trim head stainless screw as supplied with the clips. Stainless steel Trex Hideaway® Start Clips are attached to the ledger board at each joist location with one #8-10 x 1-5/8" star drive stainless screw. See Figure 7.		
	2x6 Solid	Two #8 (0.178 in. major dia.), 2-1/2-inch long HEADDCOTE stainless steel screws on support framing spaced 16 in. on center	429 psf	
		Two #8 (0.178 in. major dia.), 2-1/2-inch long HEADDCOTE stainless steel screws on support framing spaced 24 in. on center	286 psf	
Trex Transcend® Lineage	Solid	Two #8 (0.178 in. major dia.), 2-1/2-inch long HEADDCOTE stainless steel screws on support framing spaced 16 in. on center		
	Grooved	Trex Hideaway® Hidden Fastener system on support framing spaced 16 in. on center using one #8 x 1-5/8 in. trim head stainless screw as supplied with the clips. Stainless steel Trex Hideaway® Start Clips are attached to the ledger board at each joist location with one #8-10 x 1-5/8" star drive stainless screw. See Figure 7.		
	Solid	Two TrapEase II® composite deck screws		
Trex Signature®	Grooved	Trex Hideaway® Hidden Fastener system on support framing spaced 16 in. on center using one #8 x 1-5/8 in. trim head stainless screw as supplied with the clips. Stainless steel Trex Hideaway® Start Clips are attached to the ledger board at each joist location with one #8-10 x 1-5/8" star drive stainless screw. See Figure 7.		





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Table 1 – Fastening Schedule and Wind Uplift Ratings (Continued)

- 0	1x6 Solid	Two #10 x 2-3/4-inch TrapEase II Composite Deck Screws on support framing spaced 16-inch span	
Trex® Composite Deck Board	1x6 Grooved	Trex Hideaway® Hidden Fastener system on support framing spaced 16 in. on center using one #8 x 1-5/8 in. trim head stainless screw as supplied with the clips. Stainless steel Trex Hideaway® Start Clips are attached to the ledger board at each joist location with one #8-10 x 1-5/8" star drive stainless screw. See Figure 7.	117 psf

Table 2 – Span/Load and Stair Tread Span Ratings

Product	Span/Load Rating (inches/psf)	Maximum Stair Tread Span ⁽¹⁾	
Trex Enhance® Basics and Naturals	16/100	9 inches	
Trex Select® 1x6	16/100	12 inches	
Trex Select® 2x6	16/200, 24/100	16 inches	
Trex Transcend® Tropical and Earth Tones 1x6	16/100	12 inches	
Trex Transcend® Tropicals and Earth Tones 2x6	16/200, 24/100	16 inches	
Trex Transcend® Lineage®	16/100	12 inches	
Trex Signature®	16/100	12 inches	
Trex® Composite Deck Board 1x6	16/100	12 inches	

⁽¹⁾ Deck boards used as stair treads shall be installed in a minimum two-span condition.





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FIGURE 1 – TREX ENHANCE® 2.0 BASICS AND NATURALS DECK BOARD



FIGURE 2 – TREX ENHANCE® BASICS AND NATURALS DECK BOARD

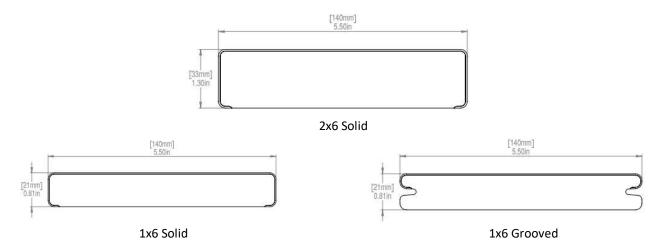


FIGURE 3 – TREX SELECT® 2X6 AND 1X6 DECK BOARD





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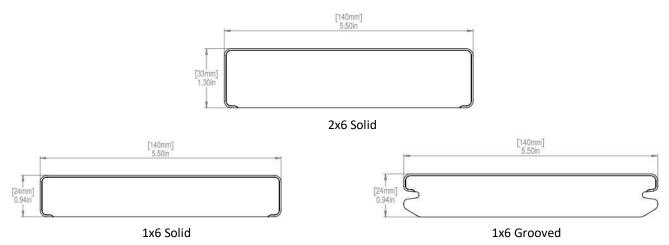


FIGURE 4 - TREX TRANSCEND® TROPICALS AND EARTH TONES 2X6 AND 1X6 DECK BOARD



FIGURE 5 – TREX TRANSCEND® LINEAGE® DECK BOARD

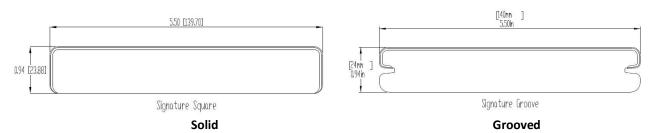


FIGURE 6 – TREX SIGNATURE® DECK BOARDS



FIGURE 7 – TREX® COMPOSITE DECK BOARD 1X6 DECK BOARD



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FIGURE 8 – START CLIP (LEFT) AND TREX HIDEAWAY® FASTENER (RIGHT) FOR GROOVED EDGE DECK BOARDS





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