Listing and Technical Evaluation Report™

A Duly Authenticated Report from an Approved Agency

Report No: 2405-104

Issue Date: October 10, 2025

Revision Date: November 9, 2026

Subject to Renewal: January 1, 2028

Trex® Company, Inc. – Trex Select™ Aluminum Railing

Trade Secret Report Holder:

Trex® Company, Inc.

Phone: 800-289-8739 Website: trex.com

CSI Designations:

DIVISION: 05 00 00 - METALS

Section: 05 52 00 - Metal Railings

Section: 05 73 00 - Decorative Metal Railings

1 Innovative Product Evaluated[1]

1.1 Trex Select Aluminum Rail

2 Product Description and Materials

2.1 The innovative product evaluated in this report is shown in **Figure 1** and is described in **Table 1**. Approved Posts for use with Trex Select Aluminum Rail are provided in **Table 2**.



Figure 1. Trex Select Aluminum Rail

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Table 1. Approved Railing System

Product	Description	Maximum Allowable Dimensions	Railing Assembly Infill	Railing Assembly Total Dimensions		Application
				Heights	Lengths	
Trex Select Aluminum Rail	Aluminum Railing Assembly	42" Height and 96" Span Between Posts	0.75" x 0.75" x 0.040" Aluminum Balusters	36" and 42"	72" and 96"	Horizontal
SI: 1 in = 25.4 mm						

Table 2. Approved Posts for use with the Trex Select Aluminum Rail System

Product	Approved Railing System	Maximum Railing Height	Post Cross-Section Dimensions	Base Plate Dimensions	Maximum Allowable Post Spacing
Trex® Select™ Aluminum Post	Trex Select Aluminum Rail	42" Height	2.5" x 2.5" x 0.085"	4.0" x 4.0" x 0.35"	96" Between Posts
Trex® Signature® Post		42" Height	2.5" x 2.5" x 0.13"	4.0" x 4.0" x 0.50"	96" Between Posts
SI: 1 in = 25.4 mm					

2.1.1 Trex Select Aluminum Rail is a guardrail system consisting of extruded aluminum posts, rails, square balusters, and brackets.

2.1.2 Trex Select Aluminum Post and the pre-assembled rail/baluster panel are available in charcoal black and burnished bronze powder-coat.

2.1.2.1 Trex Select Aluminum Post is attached to the Aluminum Base Plate with stainless fasteners.

2.1.2.2 Trex Select Aluminum Posts are available in two options: with and without pre-installed brackets.

2.1.2.3 Vertical balusters of the pre-assembled 6' panels are approximately 3.70" apart, and vertical balusters for the pre-assembled 8' panels are approximately 3.75" apart.

2.1.3 Trex Select Aluminum Rail is available in two heights, 36" and 42", and two length configurations:

2.1.3.1 6' configuration (see **Figure 2**)

2.1.3.2 8' configuration (see **Figure 3**)

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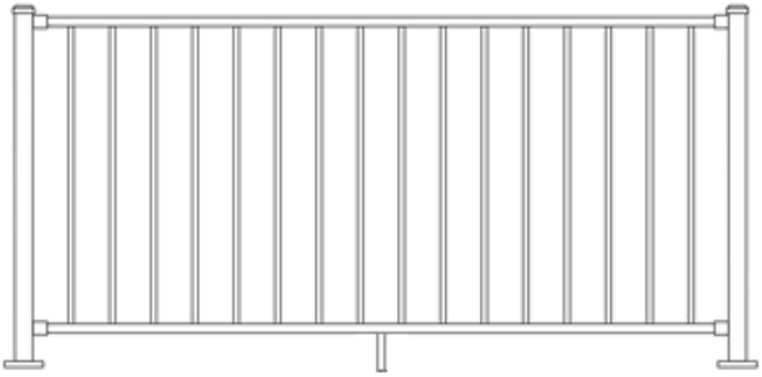


Figure 2. 6' Trex Select Aluminum Rail

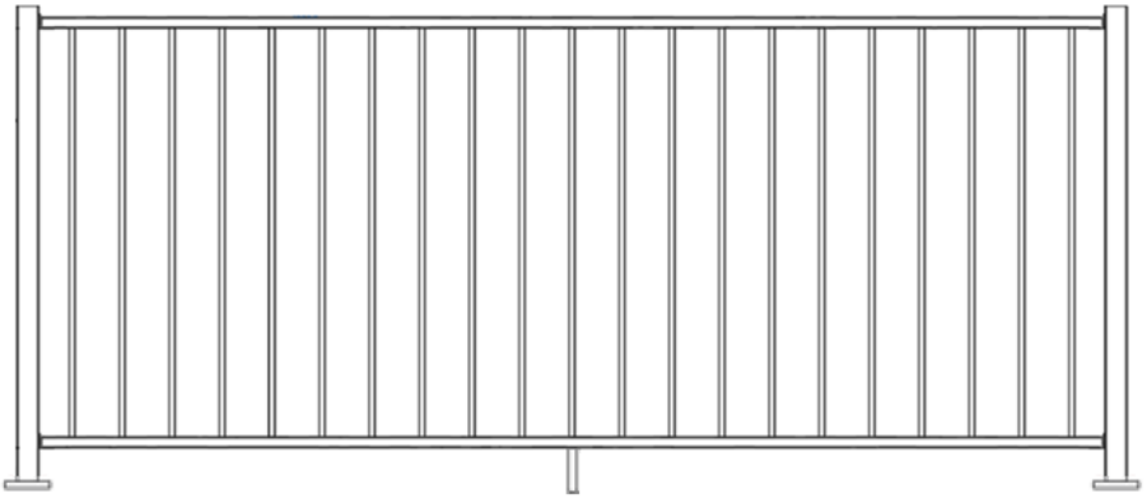


Figure 3. 8' Trex Select Aluminum Rail

2.1.4 Trex Select Aluminum Rail component profiles are shown in **Figure 4** and **Figure 5**, and are described in **Table 3**.

2.1.4.1 *Note:* The dimensions shown are in inches and the drawings are not to scale.

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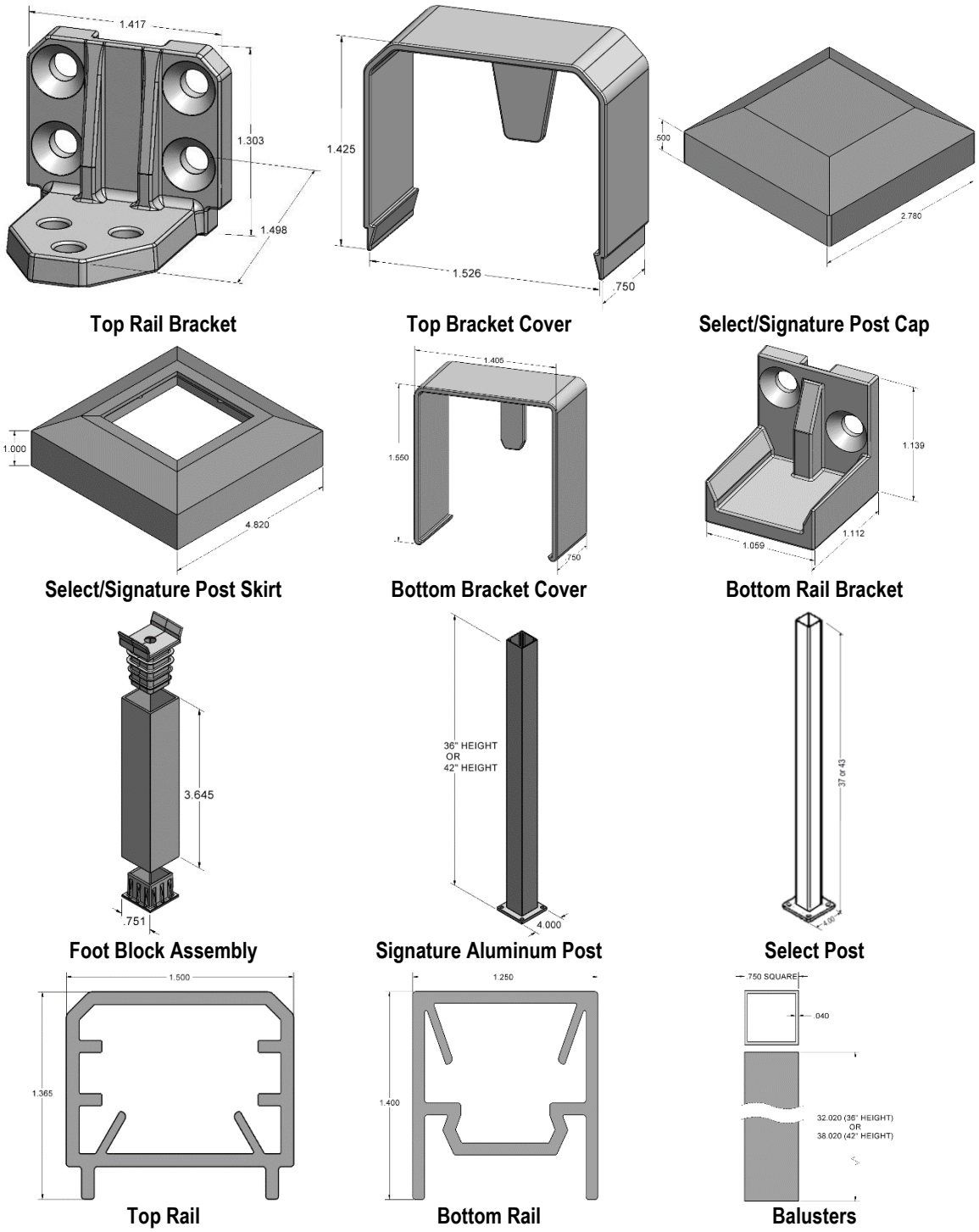


Figure 4. Trex Select Aluminum Rail Components

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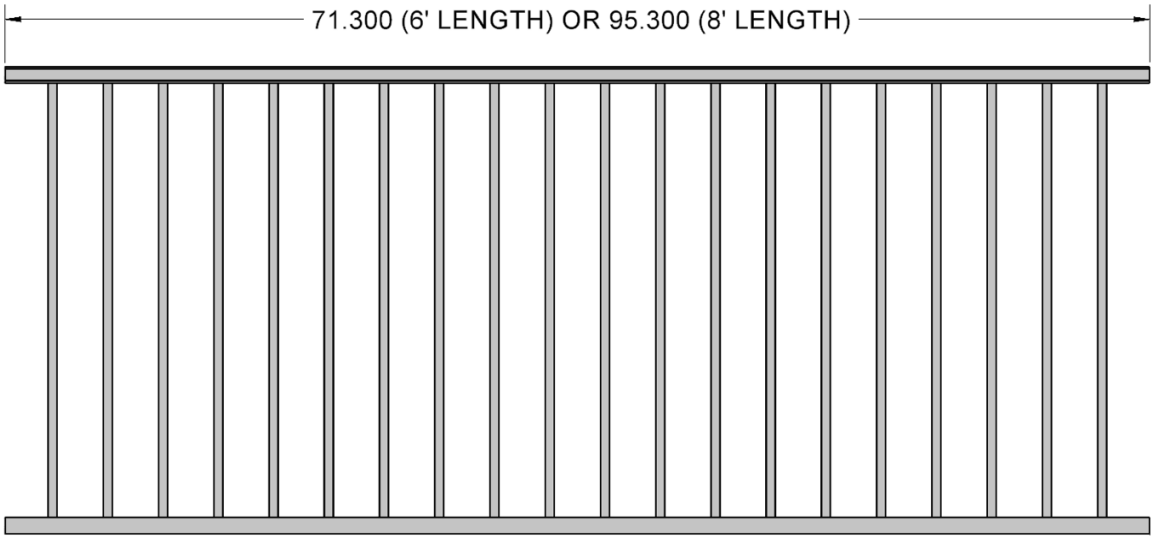


Figure 5. Trex Select Aluminum Rail Horizontal Panel

2.1.5 Details regarding the components of Trex Select Aluminum Rail are provided in **Table 3**.

Table 3. Component Details of Trex Select Aluminum Railing

Component	Overall Dimensions	Individual Component	Component Nominal Dimensions	Description	Material
Horizontal Panel					
Horizontal Panel	33" x 0.75" x 71" 33" x 0.75" x 95" 39" x 0.75" x 71" 39" x 0.75" x 95"	Top Rail	1.5" X 1.4" x 0.085"	Pre-assembled Top and Bottom Rails with Balusters	Powder Coated Aluminum 6063-T6
		Bottom Rail	1.3" X 1.4" x 0.085"	71" Panel has 15 Square Balusters Positioned 3.70" Maximum Clearance Between Them	
		Square Baluster	0.75" x 0.75" x 0.040" (32" or 38" Length)	95" Panel has 20 Square Balusters Positioned 3.75" Maximum Clearance Between Them	
Trex Select Aluminum Post with Base Plate					
Trex Select Aluminum 2.5" Post with Base Plate	4" x 4" x 37 1/2" 4" x 4" x 43 1/2"	2.5" Post (Corner), 2.5" Post (Line), 2.5" Post (End), 2.5" Post (No Brackets)	2.5" x 2.5" x 0.085"	Post is Pre-assembled to Base Plate with Four 0.370" Diameter Holes with Centers Located Approximately 1" from Each Edge and Approximately 2" Apart On-Center	Powder Coated Aluminum 6063-T6
		2.5" Stainless Screw	2.5" x 5/16" #12	Four Screws are Used to Assemble Post to Base Plate	300 Series Stainless Steel

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Table 3. Component Details of Trex Select Aluminum Railing

Component	Overall Dimensions	Individual Component	Component Nominal Dimensions	Description	Material
Trex Select Aluminum 2.5" Post with Base Plate Continued	4" x 4" x 37 1/2" 4" x 4" x 43 1/2" Continued	4" Base Plate	4.0" x 4.0" x 0.35"	Aluminum Base Plate has Four 0.406" Diameter Mounting Bolt Holes Located Approximately 0.375" from Edge and 3.25" Apart On-Center	Powder Coated Aluminum 6061-T5
		2.5" Post Cap	2.8" x 2.8" x 0.5"	Cap is Installed on Top of Post	Powder Coated Zamak 3 or Aluminum A380/A383/ADC12
		2.5" Post Skirt	4.8" x 4.8" x 1"	Skirt is Installed Around Base Plate	Powder Coated Zamak 3
Trex Signature Post with Base Plate					
Trex Signature Post with Base Plate	4" x 4" x 37" 4" x 4" x 43"	2.5" Post	2.5" x 2.5" x 0.13"	Post is Welded to Base Plate	Powder Coated Aluminum 6063-T6
		4" Base Plate	4.0" x 4.0" x 0.5"	Aluminum Base Plate Has Four 0.406" Diameter Holes with Centers Located Approximately 0.375" from Each Edge and Approximately 3.25" Apart On-Center	
		2.5" Post Cap	2.8" x 2.8" x 0.5"	Cap is Installed on Top of Post	Powder Coated Zamak 3 or Aluminum A380/A383/ADC12
		2.5" Post Skirt	4.8" x 4.8" x 1"	Skirt is Installed Around Base Plate	Powder Coated Zamak 3

2.2 As needed, review material properties for design in **Section 6** and the regulatory evaluation in **Section 8**.

3 Definitions[2]

3.1 New Materials[3] are defined as building materials, equipment, appliances, systems, or methods of construction, not provided for by prescriptive and/or legislatively adopted regulations, known as alternative materials.[4] The design strength and permissible stresses shall be established by tests[5] and/or engineering analysis.[6]

3.2 Duly authenticated reports[7] and research reports[8] are test reports and related engineering evaluations that are written by an approved agency[9] and/or an approved source.[10]

3.2.1 This report utilizes intellectual property and/or trade secrets to create public domain material properties for commercial end-use.

3.2.1.1 This report protects confidential Intellectual Property and trade secrets under the regulation, 18.US.Code.90, also known as Defend Trade Secrets Act of 2016 (DTSA).[11]

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3.3 An approved agency is *"approved"* when it is ANAB ISO/IEC 17065 accredited. DrJ Engineering, LLC (DrJ) is accredited and listed in the ANAB directory.

3.4 An approved source is *"approved"* when a professional engineer (i.e., Registered Design Professional, hereinafter RDP) is properly licensed to transact engineering commerce. The regulatory authority governing approved sources is the state legislature via its professional engineering regulations.[12]

3.5 Testing and/or inspections conducted for this duly authenticated report were performed by an ISO/IEC 17025 accredited testing laboratory, an ISO/IEC 17020 accredited inspection body, and/or a licensed RDP.

3.5.1 The Center for Building Innovation (CBI) is ANAB[13] ISO/IEC 17025 and ISO/IEC 17020 accredited.

3.6 The regulatory authority shall enforce[14] the specific provisions of each legislatively adopted regulation. If there is a non-conformance, the specific regulatory section and language of the non-conformance shall be provided in writing[15] stating the nonconformance and the path to its cure.

3.7 The regulatory authority shall accept duly authenticated reports from an approved agency and/or an approved source with respect to the quality and manner of use of new materials or assemblies as provided for in regulations regarding the use of alternative materials, designs, or methods of construction.[16]

3.8 ANAB is an International Accreditation Forum (IAF) Multilateral Recognition Arrangement (MLA) signatory. Therefore, recognition of certificates and validation statements issued by conformity assessment bodies accredited by all other signatories of the IAF MLA with the appropriate scope shall be approved.[17] Thus, all ANAB ISO/IEC 17065 duly authenticated reports are approval equivalent,[18] and can be used in any country that is an MLA signatory found at this link: https://iaf.nu/en/recognised-abs/

3.9 Approval equity is a fundamental commercial and legal principle.[19]

4 Applicable Local, State, and Federal Approvals; Standards; Regulations[20]

4.1 *Local, State, and Federal*

4.1.1 Approved in all local jurisdictions pursuant to ISO/IEC 17065 duly authenticated report use, which includes, but is not limited to, the following featured local jurisdictions: Austin, Baltimore, Broward County, Chicago, Clark County, Dade County, Dallas, Detroit, Denver, DuPage County, Fort Worth, Houston, Kansas City, King County, Knoxville, Las Vegas, Los Angeles City, Los Angeles County, Miami, Nashville, New York City, Omaha, Philadelphia, Phoenix, Portland, San Antonio, San Diego, San Jose, San Francisco, Seattle, Sioux Falls, South Holland, St. Louis County, Texas Department of Insurance, and Wichita.[21]

4.1.2 Approved in all state jurisdictions pursuant to ISO/IEC 17065 duly authenticated report use, which includes, but is not limited to, the following featured states: California, Florida, New Jersey, Oregon, New York, Texas, Washington, and Wisconsin.[22]

4.1.3 Approved by the Code of Federal Regulations Manufactured Home Construction: Pursuant to Title 24, Subtitle B, Chapter XX, Part 3282.14[23] and Part 3280[24] pursuant to the use of ISO/IEC 17065 duly authenticated reports.

4.1.4 Approved means complying with the requirements of local, state, or federal legislation.

4.2 *Regulations*

4.2.1 *IBC – 18, 21, 24: International Building Code®*

4.2.2 *IRC – 18, 21, 24: International Residential Code®*

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4.3 *Standards*

4.3.1 *ASCE/SEI 7: Minimum Design Loads and Associated Criteria for Buildings and Other Structures*

4.3.2 *ASTM E935: Standard Test Methods for Performance of Permanent Metal Railing Systems and Rails for Buildings*

4.3.3 *ASTM E985: Standard Specification for Permanent Metal Railing Systems and Rails for Buildings*

5 Listed[25]

5.1 Equipment, materials, products, or services included in a List published by a nationally recognized testing laboratory (e.g., CBI), an approved agency (e.g., CBI and DrJ), and/or and approved source (e.g., DrJ), or other organization(s) concerned with product evaluation (e.g., DrJ), that maintains periodic inspection (e.g., CBI) of production of listed equipment or materials, and whose listing states either that the equipment or material meets nationally recognized standards or has been tested and found suitable for use in a specified manner.

6 Tabulated Properties Generated from Nationally Recognized Standards

6.1 *General*

6.1.1 Trex Select Aluminum Rails are used as guardrail systems where a guardrail height of 36" or 42" is required in accordance with IBC Section 1015.2, IBC Section 1015.3, and IRC Section R321.1.[26]

6.2 *Structural Performance*

6.2.1 Trex Select Aluminum Rails were tested and met the structural requirements of IRC Section R301.5 and IBC Section 1607.9 for use in one- and two-family dwellings only. See **Table 4** for assessment of Trex Select Aluminum Rail.

6.2.1.1 Design loads are applicable when using Trex Select Aluminum Post or Trex Signature Post with the Trex Select Aluminum Rail system.

Table 4. Allowable Design Loads for Trex Select Aluminum Rail

Load Type	Regulatory Source	Design Service-Level Live Load
Infill Load	IBC Section 1607.9.1.2 (One and two-family dwellings) IRC Table R301.5	50 lb[1]
Concentrate Load (Vertical and Horizontal)	IBC Section 1607.9.1.1 (One and two-family dwellings) IRC Table R301.5	200 lb

SI: 1 lbf = 4.448 N, 1 plf = 14.6 N/m

1. Load applied over square area of one (1) square foot in accordance with ASTM E935 Section 10.4 and ASCE 7 Section 4.5.1.2, as specified in IBC Section 1607.9.1.2 and IRC Table R301.5.

6.3 Alternative techniques shall be permitted in accordance with accepted engineering practice and experience. These provisions for the use of alternative materials, designs, and methods of construction are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed herein. This includes, but is not limited to, the following areas of engineering: mechanics of materials, structures, building science, and fire science.

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7 Certified Performance[27]

7.1 All construction methods shall conform to accepted engineering practices to ensure durable, livable, and safe construction and shall demonstrate acceptable workmanship reflecting journeyman quality of work of the various trades.[28]

7.2 The strength and rigidity of the component parts and/or the integrated structure shall be determined by engineering analysis or by suitable load tests to simulate the actual loads and conditions of application that occur.[29]

8 Regulatory Evaluation and Accepted Engineering Practice

8.1 Trex Select Aluminum Rail complies with the following legislatively adopted regulations and/or accepted engineering practice for the following reasons:

8.1.1 Structural performance in accordance with IRC Section R301.5 and IBC Section 1607.9 for one- and two-family dwellings.

8.2 Any building code, regulation, and/or accepted engineering evaluations (e.g., research reports, duly authenticated reports, etc.) that are conducted for this Listing were performed by DrJ, which is an ISO/IEC 17065 accredited certification body and a professional engineering company operated by RDP or approved sources. DrJ is qualified[30] to practice product and regulatory compliance services within its scope of accreditation and engineering expertise,[31] respectively.

8.3 Engineering evaluations are conducted with DrJ's ANAB accredited ICS code scope of expertise, which is also its areas of professional engineering competence.

9 Installation

9.1 Installation shall comply with the approved construction documents, the manufacturer installation instructions, this report, and the applicable building code.

9.2 In the event of a conflict between the manufacturer installation instructions and this report, contact the manufacturer for counsel on the proper installation method.

9.3 *Installation Procedure*

9.3.1 Trex Select Aluminum Post or Trex Signature Post shall be installed in accordance with **Figure 6** or **Figure 7**.

9.3.1.1 Material shall be nominal 2x8 Pressure-Preservative-Treated (PPT) Southern Pine (SP) with a specific gravity of 0.55.

9.3.1.2 Fasteners shall be #10 x 3" PPT compatible wood screws (36 screws per post location).

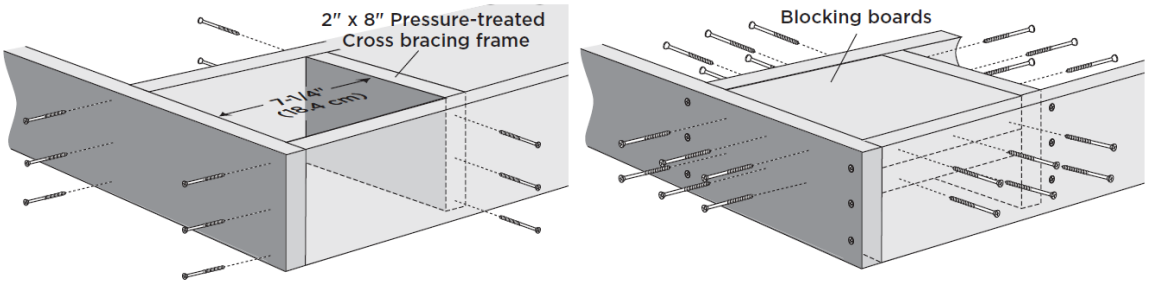


Figure 6. Corner Post Blocking – Post (Wood Installation)

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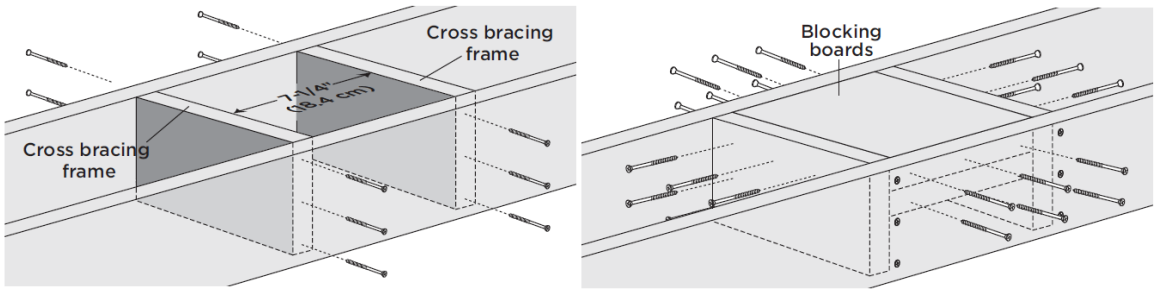


Figure 7. In-line Post Blocking – Post (Wood Installation)

9.3.2 The fastening schedule per component is presented in **Table 5**.

Table 5. Fastening Schedule for Trex Select Aluminum Rail

Component	Connection	Details
Trex Select Aluminum Post or Trex Signature Post	Post to Substructure	Four (4) 3/8" x 6" hex cap bolts, washers, and nuts. An aluminum back plate is required for the 2.5" post.
Upper Bracket	Bracket to Post	Attach to Aluminum Posts Using Four #10 x 3/4" Self-Drilling Screws
Lower Bracket	Bracket to Post	Attach to Aluminum Posts Using Two #10 x 3/4" Self-Drilling Screws
Horizontal Panel	Panel to Brackets	Attach to Upper Brackets Using Three #10 x 3/4" Self-Drilling Screws
Foot Block Insert	Foot Block Insert to Panel	Attach to Center of Bottom Rail Using One #10 x 3/4" Screw

9.3.3 *Installation of Trex Select Aluminum Rail Horizontal Panel*

9.3.3.1 Installation of Trex Select Aluminum Rail shall be installed on Trex Signature®, Trex Transcend Lineage®, Trex Transcend®, Trex Select®, Trex Enhance® decking, or decking with equivalent properties.

9.3.3.2 Trex Select Aluminum Rails shall be installed according to Trex Installation Instructions (see manufacturer installation guide for details).

10 Substantiating Data

10.1 Testing has been performed under the supervision of a professional engineer and/or under the requirements of ISO/IEC 17025 as follows:

10.1.1 ASTM E935 test reports from approved sources:

10.1.1.1 Infill load tests

10.1.1.2 Concentrated load tests

10.2 Information contained herein may include the result of testing and/or data analysis by sources that are approved agencies, approved sources, and/or an RDP. Accuracy of external test data and resulting analysis is relied upon.

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10.3 Where applicable, testing and/or engineering analysis are based upon provisions that have been codified into law through state or local adoption of regulations and standards. The developers of these regulations and standards are responsible for the reliability of published content. DrJ's engineering practice may use a regulation-adopted provision as the control. A regulation-endorsed control versus a simulation of the conditions of application to occur establishes a new material as being equivalent to the regulatory provision in terms of quality, strength, effectiveness, fire resistance, durability, and safety.

10.4 The accuracy of the provisions provided herein may be reliant upon the published properties of raw materials, which are defined by the grade mark, grade stamp, mill certificate, or duly authenticated reports from approved agencies and/or approved sources provided by the supplier. These are presumed to be minimum properties and relied upon to be accurate. The reliability of DrJ's engineering practice, as contained in this duly authenticated report, may be dependent upon published design properties by others.

10.5 *Testing and Engineering Analysis*

10.5.1 The strength, rigidity, and/or general performance of component parts and/or the integrated structure are determined by suitable tests that simulate the actual conditions of application that occur and/or by accepted engineering practice and experience.[32]

10.6 Where additional condition of use and/or regulatory compliance information is required, please search for Trex Select Aluminum Rail on the DrJ Certification website.

11 Findings

11.1 As outlined in **Section 6**, Trex Select Aluminum Rail has performance characteristics that were tested and/or meet applicable regulations. In addition, they are suitable for use pursuant to its specified purpose.

11.2 When used and installed in accordance with this duly authenticated report and the manufacturer installation instructions, Trex Select Aluminum Rail shall be approved for the following applications:

11.2.1 Use as a guardrail system in one- and two-family dwellings where a guardrail height of 36" or 42" is allowed in accordance with IBC Section 1015.2, IBC Section 1015.3, and IRC Section R321.[33]

11.3 Unless exempt by state statute, when Trex Select Aluminum Rail is to be used as a structural and/or building envelope component in the design of a specific building, the design shall be performed by an RDP.

11.4 Any application specific issues not addressed herein can be engineered by an RDP. Assistance with engineering is available from Trex Company, Inc.

11.5 IBC Section 104.2.3[34] (IRC Section R104.2.2[35] and IFC Section 104.2.3[36] are similar) in pertinent part state:

> **104.2.3 Alternative Materials, Design and Methods of Construction and Equipment.** The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code, provided that any such alternative is not specifically prohibited by this code and has been approved.

11.6 **Approved:**[37] Building regulations require that the building official shall accept duly authenticated reports.[38]

11.6.1 An approved agency is *"approved"* when it is ANAB ISO/IEC 17065 accredited.

11.6.2 An approved source is *"approved"* when an RDP is properly licensed to transact engineering commerce.

11.6.3 Federal law, Title 18 US Code Section 242, requires that, where the alternative product, material, service, design, assembly, and/or method of construction is not approved, the building official shall respond in writing, stating the reasons why the alternative was not approved. Denial without written reason deprives a protected right to free and fair competition in the marketplace.

11.7 DrJ is a licensed engineering company, employs licensed RDPs and is an ANAB Accredited Product Certification Body – Accreditation #1131.

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11.8 Through the IAF Multilateral Arrangement (MLA), this duly authenticated report can be used to obtain product approval in any jurisdiction or country because all ANAB ISO/IEC 17065 duly authenticated reports are equivalent.[39]

12 Conditions of Use

12.1 As defined in **Section 6**, where material and/or engineering mechanics properties are created for load resisting design purposes, the resistance to the applied load shall not exceed the ability of the defined properties to resist those loads using the principles of accepted engineering practice.

12.2 Trex Select Aluminum Rails have only been evaluated for live loads for use as guards. Other loadings are outside of the scope of this report.

12.3 Attachment of Trex Select Aluminum Rails or Trex Signature Posts to decking other than Trex Signature, Trex Transcend Lineage, Trex Transcend, Trex Select, or Trex Enhance decking is outside of the scope of this report.

12.3.1 *Exception:* Decking with equivalent compressive strength is permitted.

12.4 Application compliant for IRC and one- and two-family dwellings per the IBC.

12.5 The compatibility of the fasteners and all other metallic parts listed in this report with the supporting structure is outside of the scope of this report.

12.6 This report does not cover the compatibility of fasteners and metallic components with the support structure.

12.6.1 Corrosion compatibility of fasteners with the specified pressure-preservative-treated lumber shall be confirmed by the designer using the lumber treater's recommendations.

12.7 Stainless steel barrier strips or shim plates shall be installed between the aluminum post base plate and pressure-preservative-treated wood or concrete to prevent direct contact. Additional shims are permitted, where necessary, to plumb the posts.

12.8 When required by adopted legislation and enforced by the building official, also known as the Authority Having Jurisdiction (AHJ) in which the project is to be constructed:

12.8.1 Any calculations incorporated into the construction documents shall conform to accepted engineering practice and, when prepared by an approved source, shall be approved when signed and sealed.

12.8.2 This report and the installation instructions shall be submitted at the time of permit application.

12.8.3 At a minimum, this innovative product shall be installed per **Section 9**.

12.8.4 The review of this report by the AHJ shall comply with IBC Section 104.2.3.2 and IBC Section 105.3.1.

12.8.5 This innovative product has an internal quality control program and a third party quality assurance program in accordance with IBC Section 104.7.2, IBC Section 110.4, IBC Section 1703, IRC Section R104.7.2, and IRC Section R109.2.

12.8.6 The application of this innovative product in the context of this report is dependent upon the accuracy of the construction documents, implementation of installation instructions, inspection as required by IBC Section 110.3, IRC Section R109.2, and any other regulatory requirements that may apply.

12.9 The approval of this report by the AHJ shall comply with IBC Section 1707.1, where legislation states in part, *"the building official shall make, or cause to be made, the necessary tests and investigations; or the building official shall accept duly authenticated reports from approved agencies in respect to the quality and manner of use of new materials or assemblies as provided for in Section 104.2.3,"* all of IBC Section 104, and IBC Section 105.3.

12.10 Design loads shall be determined in accordance with the regulations adopted by the jurisdiction in which the project is to be constructed and/or by the building designer (i.e., owner or RDP).

12.11 The actual design, suitability, and use of this report for any particular building, is the responsibility of the owner or the authorized agent of the owner.

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13 Identification

13.1 Trex Select Aluminum Rail, as listed in **Section 1.1**, is identified by a label on the board or packaging material bearing the manufacturer name, product name, this report number, and other information to confirm code compliance.

13.2 Additional technical information can be found at trex.com.

14 Review Schedule

14.1 This report is subject to periodic review and revision. For the latest version, visit drjcertification.org.

14.2 For information on the status of this report, please contact DrJ Certification.

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Notes

1 For more information, visit drjcertification.org or call us at 608-310-6748.

2 Capitalized terms and responsibilities are defined pursuant to the applicable building code, applicable reference standards, the latest edition of TPI 1, the NDS, AISI S202, US professional engineering law, Canadian building code, Canada professional engineering law, Qualtim Appendix A: Definitions/Commentary, Qualtim Appendix B: Project/Deliverables, Qualtim Appendix C: Intellectual Property and Trade Secrets, definitions created within Design Drawings and/or definitions within Reference Sheets. Beyond this, terms not defined shall have ordinarily accepted meanings as the context implies. Words used in the present tense include the future; words stated in the masculine gender include the feminine and neuter; the singular number includes the plural, and the plural includes the singular.

3 https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1702

4 Alternative Materials, Design, and Methods of Construction and Equipment: The provisions of any regulation code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by a regulation. Please review https://www.justice.gov/atr/mission and https://up.codes/viewer/mississippi/ibc-2024/chapter/1/scope-and-administration#104.2.3

5 https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1706.2:~:text=the%20design%20strengths%20and%20permissible%20stresses%20shall%20be%20established%20by%20tests

6 The design strengths and permissible stresses of any structural material shall conform to the specifications and methods of design of accepted engineering practice. https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1706.1:~:text=Conformance%20to%20Standards-,The%20design%20strengths%20and%20permissible%20stresses,-of%20any%20structural

7 https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1707.1:~:text=the%20building%20official%20shall%20make%2C%20or%20cause%20to%20be%20made%2C%20the%20necessary%20tests%20and%20investigations%3B%20or%20the%20building%20official%20shall%20accept%20duly%20authenticated%20reports%20from%20approved%20agencies%20in%20respect%20to%20the%20quality%20and%20manner%20of%20use%20of%20new%20materials%20or%20assemblies%20as%20provided%20for%20in%20Section%20104.2.3.

8 https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1703.4.2

9 https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#approved_agency_

10 https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#approved_source_

11 https://www.law.cornell.edu/uscode/text/18/1832 (b) Any organization that commits any offense described in subsection (a) shall be fined not more than the greater of $5,000,000 or 3 times the value of the stolen trade secret to the organization, including expenses for research and design and other costs of reproducing the trade secret that the organization has thereby avoided. The federal government and each state have a public records act. To follow DTSA and comply state public records and trade secret legislation requires approval through ANAB ISO/IEC 17065 accredited certification bodies or approved sources. For more information, please review this website: Intellectual Property and Trade Secrets.

12 https://www.nspe.org/resources/issues-and-advocacy/professional-policies-and-position-statements/regulation-professional AND https://apassociation.org/list-of-engineering-boards-in-each-state-archive/

13 https://www.cbitest.com/accreditation/

14 https://up.codes/viewer/mississippi/ibc-2024/chapter/1/scope-and-administration#104.1:~:text=directed%20to%20enforce%20the%20provisions%20of%20this%20code

15 https://up.codes/viewer/mississippi/ibc-2024/chapter/1/scope-and-administration#104.2.3 AND https://up.codes/viewer/mississippi/ibc-2024/chapter/1/scope-and-administration#105.3.1

16 https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1707.1

17 https://iaf.nu/en/about-iaf-mla/#:~:text=Once%20an%20accreditation%20body%20is%20a%20signatory%20of%20the%20IAF%20MLA%2C%20it%20is%20required%20to%20recognise%20certificates%20and%20validation%20and%20verification%20statements%20issued%20by%20conformity%20assessment%20bodies%20accredited%20by%20all%20other%20signatories%20of%20the%20IAF%20MLA%2C%20with%20the%20appropriate%20scope

18 True for all ANAB accredited product evaluation agencies and all International Trade Agreements.

19 https://www.justice.gov/crt/deprivation-rights-under-color-law AND https://www.justice.gov/atr/mission

20 Unless otherwise noted, the links referenced herein use un-amended versions of the 2024 International Code Council (ICC) 2024 International Code Council (ICC) model codes as foundation references. Mississippi versions of the IBC 2024 and the IRC 2024 are un-amended. This material, product, design, service and/or method of construction also complies with the 2000-2021 versions of the referenced codes and the standards referenced therein. As pertinent to this technical and code compliance evaluation, CBI and/or DrJ staff have reviewed any state or local regulatory amendments to assure this report is in compliance.

21 See Adoptions by Publisher for the latest adoption of a non-amended or amended model code by the local jurisdiction. https://up.codes/codes/general

22 See Adoptions by Publisher for the latest adoption of a non-amended or amended model code by state. https://up.codes/codes/general

23 https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3282/subpart-A/section-3282.14

24 https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280

25 https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#p-3280.2(Listed%20or%20certified); https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#listed_ AND https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#labeled_

26 2021 IRC Section R312.1

27 https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1703.4

28 https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#:~:text=All%20construction%20methods%20shall%20be%20in%20conformance%20with%20accepted%20engineering%20practices%20to%20insure%20durable%2C%20livable%2C%20and%20safe%20housing%20and%20shall%20demonstrate%20acceptable%20workmanship%20reflecting%20journeyman%20quality%20of%20work%20of%20the%20various%20trades

29 https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#:~:text=The%20strength%20and%20rigidity%20of%20the%20component%20parts%20and/or%20the%20integrated%20structure%20shall%20be%20determined%20by%20engineering%20analysis%20or%20by%20suitable%20load%20tests%20to%20simulate%20the%20actual%20loads%20and%20conditions%20of%20application%20that%20occur

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[30] Qualification is performed by a legislatively defined Accreditation Body. ANSI National Accreditation Board (ANAB) is the largest independent accreditation body in North America and provides services in more than 75 countries. DrJ is an ANAB accredited product certification body.

[31] https://anabpd.ansi.org/Accreditation/product-certification/AllDirectoryDetails?prgID=1&orgID=2125&statusID=4#:~:text=Bill%20Payment%20Date-,Accredited%20Scopes,-13%20ENVIRONMENT.%20HEALTH

[32] See Code of Federal Regulations (CFR) Title 24 Subtitle B Chapter XX Part 3280 for definition: https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280

[33] 2021 IRC Section R312

[34] 2021 IBC Section 104.11

[35] 2021 IRC Section R104.11

[36] 2018: https://up.codes/viewer/wyoming/ifc-2018/chapter/1/scope-and-administration#104.9 AND 2021: https://up.codes/viewer/wyoming/ibc-2021/chapter/1/scope-and-administration#104.11

[37] Approved is an adjective that modifies the noun after it. For example, Approved Agency means that the Agency is accepted officially as being suitable in a particular situation. This example conforms to IBC/IRC/IFC Section 201.4 (https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#201.4) where the building code authorizes sentences to have an ordinarily accepted meaning such as the context implies.

[38] https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1707.1

[39] Multilateral approval is true for all ANAB accredited product evaluation agencies and all International Trade Agreements.

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