

(Specifier Note: The purpose of this guide specification is to assist the specifier in correctly specifying plastic simulated wood trim products and their installation. The specifier needs to edit the guide specifications to fit the needs of specific projects. Contact a Trex Product Representative to assist in appropriate product selections. Throughout the guide specification, there are Specifier Notes to assist in the editing of the file. Delete Specifier Notes upon completion of editing.)

References have been made within the text of the specification to MasterFormat Section numbers and titles, specifier needs to coordinate these numbers and titles with sections included for the specific project. Brackets [] and "OR" have been used to indicate when a selection is required.

SECTION 06 65 00
PLASTIC SIMULATED WOOD TRIM
TrexTrim™ Plastic Trim by Trex

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. A free-foam cellular polyvinyl chloride (PVC) material forming the following building components:
 - 1. [Sheet Stock,] [Bead Board,] [Corner Boards,] [Trim Boards,] [and] [Moulding Profiles]
- B. Trim Accessories

1.2 RELATED SECTIONS

(Specifier Note: EDIT; include location of wall framing material. Sections listed below are suggested locations for wall framing.)

- A. Section [05 40 00 – Cold-formed Metal Framing] [Section 06 10 00 – Rough Carpentry] [insert section number and title]: Framed wall, ceiling, and soffit construction.

(Specifier Note: EDIT; include location of sheathing, siding, and flashing materials. Sections listed below are suggested locations of building materials.)

- B. Section [06 16 00 – Sheathing] [insert section number and title]: Substrate for attaching trim.
- C. Section [07 46 00 – Siding] [insert section number and title]: Coordination of siding with trim.
- D. Section [07 62 00 – Sheet Metal Flashing and Trim] [insert section number and title]: Flashing associated with trim.

1.3 REFERENCES

A. ASTM International

1. ASTM D570: Standard Test Method for Water Absorption of Plastics.
2. ASTM D648: Standard Test Method for Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position.
3. ASTM D696: Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between 30 degrees C and 30 degrees C with a Vitreous Silica Dilatometer.
4. ASTM D790: Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
5. ASTM D1505: Standard Test Method for Density of Plastics by the Density Gradient Technique.
6. ASTM E84: Standard Test Method for Surface Burning Characteristics of Building Materials.

B. Leadership in Energy and Environmental Design (LEED)

C. National Green Building Standard (NGBS)

1.4 SUBMITTALS

(Specifier Note: DELETE Submittal Procedures paragraph when not required. Coordinate requirements with Division 01, Section 01 33 00 – Submittal Procedures.)

- A. Refer to Section [01 33 00 Submittal Procedures] [insert section number and title].
- B. Product Data: Submit manufacturer current technical literature for each type of product.
- C. LEED Submittals:
 1. Material and Resources (MR)

(Specifier Note: Verify ability to qualify for Credit MR 5 based on location of Trex "TrexTrim" manufacturing facility in relationship to Project Site.)

- a. Product Certificates for Credit MR 5: For products and materials required to comply with requirements for regionally manufactured materials. Include statement indicating cost, location of manufacturer, and distance to Project for each regionally manufactured material.

D. NGBS Submittals:

(Specifier Note: Verify ability to qualify for Practice 608.1 based on location of Trex "TrexTrim" manufacturing facility in relationship to Project Site.)

1. Practice 608 – Indigenous Materials
 - a. Practice 608.1: Provide documentation indicating manufacturing location of indigenous materials that are extracted, processed, and manufactured within 500 miles of project site.
2. Practice 1001 – Building Owners' Manual for One- and Two-Family Dwellings
 - a. Practice 1001.1(20): Provide documentation indicating how to maintain and care for material.

E. Quality Assurance Submittals

1. Manufacturer Instructions: Provide manufacturer's written instructions including proper material storage, material handling, and attachment methods.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Installer shall have a minimum of three (3) years experience in the installation of products listed in this section.

1.6 DELIVERY, STORAGE AND HANDLING

(Specifier Note: COORDINATE requirements with Division 01, Section 01 60 00 – Product Requirements.)

- A. Refer to Section [01 60 00 Product Requirements] [insert section number and title].
- B. Deliver trim materials and components in manufacturer's original, unopened, undamaged packaging with identification labels intact.
- C. Store materials on dry, level, firm, and clean surface. Cover and ventilate to allow air to circulate and moisture to escape.
- D. Allow material to acclimate to environment, as recommended by manufacturer, prior to installation.

1.7 WARRANTY

(Specifier Note: Limited warranty is transferable in residential and commercial applications between property owners, residential applications may only transfer the warranty between property owners one time within a 5 year period.)

A. Limited Warranty:

1. Standard form in which manufacturer agrees that under normal use and service conditions Trex products shall be free from material defects in workmanship and materials and will not split, splinter, rot, or suffer structural damage from termites or fungal decay.

(Specifier Note: Warranty period for residential applications are 25 years; commercial applications are 10 years. Residential applications are defined by the manufacturer as individual residences, commercial applications are defined as any application other than on an individual residence.)

2. Warranty Period: [25] [10] years.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Trex® Company, Inc.; (800-289-8739) (www.trex.com); 160 Exeter Drive; Winchester, Virginia 22603.

(Specifier Note: DELETE or COORDINATE Substitutions paragraph if substitutions, are addressed in Division 01, Section 01 25 00 – Substitution Procedures.)

B. Substitutions:

1. [Not Permitted.]

[OR]

2. [Requests for substitutions will be considered in accordance with provisions of [Section 01 60 00 – Product Requirements] [insert section number and title].]

2.2 PERFORMANCE CRITERIA

A. Physical characteristics:

1. Density: 0.52 to 0.62 grams per cubic centimeter when tested in accordance with ASTM D1505.
2. Water Absorption: Less than 0.5 percent when tested in accordance with ASTM D570.

B. Mechanical characteristics:

1. Thermal Expansion: 3.7×10^{-5} inches per degree F when tested in accordance with ASTM D696.
2. Modulus of Elasticity: 120,000 psi when tested in accordance with ASTM D790.
3. Modulus of Rupture: 1,000 psi when tested in accordance with ASTM D790.
4. Flexural Stress at Yield: 1,000 psi when tested in accordance with ASTM D790.

C. Thermal characteristics:

1. Flame Spread: Less than 32 (for 5/4 inch board) when tested in accordance with ASTM E84.
2. Head Deflection Temperature: 140 degrees F when tested in accordance with ASTM D648.

D. Manufacturing Tolerances:

1. Variation in component length: Plus 1.00; minus 0.00
2. Variation in component width: Plus 0.14 inches; minus 0 inches.
3. Variation in component thickness: Plus or minus 5 percent.
4. Variation in component edge cut: Plus or minus 2 degrees.
5. Variation in density: 0.52 to 0.62 cubic centimeters.

2.3 MATERIALS

- A. General: An extruded free-foam cellular PVC material used for interior and exterior building components.

(Specifier Note: COORDINATE; selected Standard Profiles are considered special order, requiring a minimum quantity of material to place an order. Contact a Trex Representative to determine minimum quantity requirements for special order products.)

B. Standard Profiles:

1. Trimboard:

(Specifier Note: COORDINATE; all trimboard widths are not available in all thicknesses listed, refer to www.trex.com or contact a Trex Representative for available products.)

- a. Width: [3-1/2] [and] [5-1/2] [7-1/4] [9-1/4] [11-1/4] [15-1/4] inch [at locations indicated on Drawings].
- b. Nominal thickness: [3/4] [1] [5/4] [6/4] inch
- c. Texture: [Smooth] [Woodgrain]

2. Sheet:

- a. Sheet Width: 4 feet
- b. Thickness: [3/8] [and] [1/2] [5/8] [3/4] [1] [1-1/4] inch
- c. Texture: Smooth

3. Bead Board:
 - a. Width: [3-1/2] [5-1/2] inch
 - b. Nominal thickness: 5/8 inch
 - c. Texture: Smooth

(Specifier Note: COORDINATE; Bead Board Sheets are considered special order, requiring a minimum quantity of material to place an order. Contact a Trex Representative to determine minimum quantity requirements for special order.)

4. Bead Board - Sheet:
 - a. Width: 4 feet
 - b. Nominal thickness: 1/2 inch
 - c. Texture: Smooth

5. Corner Board
 - a. Width: [3-1/2 by 3-1/2] [5-1/2 by 5-1/2] inch
 - b. Nominal thickness: 5/4 inch
 - c. Texture: [Smooth] [Woodgrain]

(Specifier Note: COORDINATE; Builder Profiles in "Wood Grain" texture are considered special order, requiring a minimum quantity of material to place an order. Contact a Trex Representative to determine minimum quantity requirements for special order products.)

C. Builder Profiles:

1. J-Channel with Flange:
 - a. Nominal Width: [4] [6] inch
 - b. Nominal thickness: 5/4 inch
 - c. Texture: [Smooth] [Woodgrain]
2. Corner J-Channel:
 - a. Nominal Width: [4] [6] inch
 - b. Nominal thickness: 5/4 inch
 - c. Texture: [Smooth] [Woodgrain]
3. J-Channel:
 - a. Nominal Width: [4] [6] inch
 - b. Nominal thickness: 5/4 inch
 - c. Texture: [Smooth] [Woodgrain]

4. Skirt Board:
 - a. Nominal Width: [4] [6] [8] [10] inch
 - b. Nominal thickness: [1] [5/4] inch
 - c. Texture: [Smooth] [Woodgrain]

D. Moulding: Provide the following moldings where shown on Drawings.

1. [Crown Profiles: [3] [and] [4] [5] [6] [Ram] [Solid] Crown.]
2. [Casing Profiles: [Base Cap] [and] [Brick Mould] [Back Band] [Rake Moulding] [Adams Casing].]
3. [Cove Profiles: [Bed Moulding] [and] [Scotia Cove] [Quarter Round].]
4. [Drip Cap]
5. [Shingle Mould]
6. [Historic Sill]
7. [Transom Sill Nose]
8. [Inside Corner]

2.4 ACCESSORIES

(Specifier Note: Manufacturer recommends the use of a high quality, exterior grade fastener, such as stainless steel, for attaching trim to framing members. Manufacturer does not recommend the use of staples, small brads, wire nails, fine thread wood screws or ring shank nails to fasten trim to framing members.)

- A. Fasteners: Provide [stainless steel] [double-dipped galvanized] fasteners, type and size as recommended by manufacturer.
- B. Adhesive: Provide product as recommended by manufacturer.
- C. [Sealants: Elastomeric polymer joint sealant as recommended by manufacturer.]

[OR]

- D. [Sealants: Refer to Section [07 92 00 – Joint Sealants] [Insert section number and title].]

2.5 FINISH

- A. Manufacturer's standard finish "White".

(Specifier Note: Manufacturer recommends the use of acrylic latex paint with a light reflectance value (LRV) above 55. TrexTrim does not require a field applied finish for protection, if trim is field painted curing of paint can take up to 60 days, cure time is dependent on local temperature and humidity.)

- B. [Field Painted: Refer to [Section 09 91 13 – Exterior Painting] [Insert section number and title].]

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that substrate is ready for the installation of trim.
- B. Verify that building components that require installation prior to trim installation are complete and ready for the work of this Section.

3.2 INSTALLATION - GENERAL

- A. Install free foam cellular PVC trim per manufacturer's written installation instructions and as follows:
 - 1. Install trim to flat, solid and stable surfaces.
 - 2. Install trim level, plumb, true, and aligned with adjacent materials.
 - 3. Do not install damaged components.
 - 4. Fasten trim with minimum of 2 fasteners at each framing member. Refer to manufacturer's installation instructions for recommended fastening patterns.
 - 5. Allow for thermal movement in long trim runs, provide a minimum of 1/8 inch movement for each 18 feet.
 - 6. Install fasteners not more than 2 inches from each end of trim.
 - 7. Bond running joints and corners with adhesive.
 - 8. Joinery:
 - a. Trim shall be installed with minimum number of joints practical, using full-length pieces. Do not use trim pieces less than 24 inches long for long trim runs, except where necessary.
 - b. End to end joints to be scarf joints.
 - c. Stagger end joints in adjacent and related members.
 - d. Scribe and cut trim to fit adjoining work.
 - e. Cut joints shall be fit to exclude water.
 - f. Cope joints at returns and miter outside corners.
- B. Install flashings over trim as indicated on Drawings, refer to **[Section 07 62 00 – Sheet Metal Flashing and Trim] [Insert section number and title]**.

(Specifier Note: COORDINATE; add last sentence when sealants are not being specified in this section.)

- C. Apply joint sealants at joints per manufacturer's installation instructions., **[and to meet the requirements of Section [07 92 00 – Joint Sealants] [Insert section number and title].**

D. Installation requirements for trim installed when the ambient temperature is above 40 degrees F:

1. Standard Profiles:

a. Install on solid backing:

- 1) 1/2 inch thick Beadboard Sheets
- 2) 3/8 inch thick Sheets

b. Install on wall[, ceiling and soffit] framing 12 inches on center, maximum:

- 1) 5/8 inch thick Beadboard
- 2) 1/2, 5/8, and 3/4 inch thick Sheets.

c. Install on wall framing 16 to 24 inches on center [; ceiling and soffit framing 16 inches on center maximum]:

- 1) 1 inch thick or greater Sheets
- 2) 3/8 inch thick Sheets

2. Builders Profiles: Install on framing 12 inches on center, maximum.

E. Installation requirements for trim installed when the ambient temperature is 40 degrees F or less:

1. Standard Profiles:

a. Install on solid backing:

- 1) 1/2 inch thick Beadboard Sheets
- 2) 3/8 inch thick Sheets

b. Install on wall[, ceiling and soffit] framing 12 inches on center, maximum:
All other trim profiles.

3.3 CLEANING AND PROTECTION

A. Remove damaged, defective or improperly installed materials. Replace with new materials installed per requirements of this section.

B. Clean finished surfaces according to manufacturer's written instructions; maintain clean condition until Substantial Completion.

END OF SECTION

DISCLAIMER:

Trex Company, Inc. Guide Specifications have been written as an aid to the professionally qualified Specifier and Design Professional. The use of this Guideline Specification requires the sole professional judgment and expertise of the qualified Specifier and Design Professional to adapt the information to the specific needs for the Building Owner and the Project, to coordinate with their Construction Document Process, and to meet all the applicable building codes, regulations and laws.