

DECK SUPPORT POST FOR

Trex Elevations®

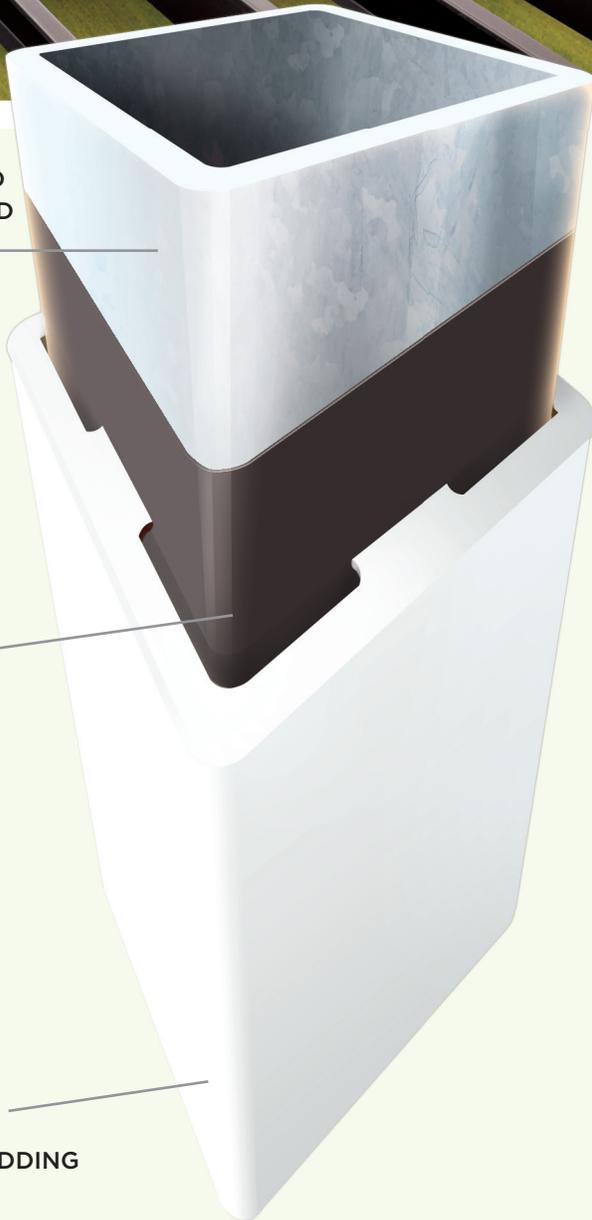
STEEL DECK FRAMING



HOT-DIPPED
GALVANIZED
COATED

CAN BE
PAINTED
ON SITE

OPTIONAL:
TREX POST
SLEEVE OR
OTHER CLADDING



STRONGER, STRAIGHTER,
SAFER, SMARTER. ELEVATED.

Steel posts now available for Trex Elevations®

There's a good reason Trex invented wood-alternative decking: when it comes to outdoor living, wood just doesn't cut it. It's the same reason we're introducing our latest wood alternative: strong, straight, stable steel deck support posts for the Trex Elevations steel deck framing system.

Traditional pressure-treated wood posts that support an elevated deck take distinct abuse, and can suffer dimensional shifts over time, resulting in a warped and displaced frame above. As part of the Trex Elevations steel deck framing system, steel support posts prevent buckling and maintain an even perfection from the day they're installed. These galvanized steel posts can either be painted or wrapped to complement the deck, rail and home.

Features and Benefits:

- » Dimensionally stable steel offers longevity and durability that wood does not
- » Posts can be left bare, painted or trimmed to suit any style
- » Covered by a 25-Year Limited Residential Warranty
- » Fully submerged, hot-dipped galvanized steel means superior protection against the elements
- » Designed to work with Trex Elevations for the ultimate steel deck framing system
- » Non-combustible for peace of mind
- » Connects to beams and piers with conventional hardware
- » Easy to work with

Steel structural post for house-attached deck

FOLLOWING ASSUMPTIONS ARE MADE:

1. The post is pinned at the base and the post is pinned at the Trex® decking beam.
2. Gravity load is transferred to the post by the box beam.
3. Calculations were done for the maximum Trex joist span and maximum Trex cantilever length and maximum Trex box beam span (See "Column Load Assumptions Table" below for maximum Trex span lengths used to obtain the loads on the columns).

Column selection table – HSS posts for house-attached deck		
	Single BB	Double BB
HSS Selection Dimensions (in)	3 1/2" x 3 1/2" x 1/8"	5 1/2" x 5 1/2" x 1/8"

* Column Load Assumptions Table – HSS posts for house-attached deck						
Load Case (psf)	50	75	100	125	150	200
Max. Trex Joist Span to obtain loads on Columns	15	14	12	10	9	8
Max. Trex Joist Cantilever Length (ft) to obtain loads on Columns	4	4	4	3	2.5	1
Max. Trex DBL Box Beam Span to obtain loads on Columns	13.67	12.83	12.1	12.1	11.83	11.75
Max. Trex SGL Box Beam Span to obtain loads on Columns	10.33	9.83	9.17	8.75	8.33	8.25

*** COLUMNS SHOWN IN THE "COLUMN SELECTION TABLE" ARE BASED ON ASSUMED SPAN LOADING SHOWN IN THE "COLUMN LOAD ASSUMPTIONS TABLE." THE "COLUMN LOAD ASSUMPTIONS TABLE" SHOULD NOT BE USED FOR SELECTING ACTUAL TREX JOISTS OR BOX BEAM MEMBERS AS THIS INFORMATION IS PROVIDED SEPARATELY.**

4. The Trex deck is attached to the main structure or house and the lateral loads have been designed to transfer through the connection to the main structure or house, therefore, there is no lateral load considered to transfer to the columns. The attachment of the steel track to the wood rim should result in the transfer of all of the lateral loads to the main structure or house. The design of the deck connection to house is not a part of the post design. Refer to the Trex Elevations® Installation Guide for detailed specifications regarding the connection.
5. Yield stress of the steel is 46 ksi, A500 G (B) HSS square.
6. Maximum height of post is 10'-0".
7. Other assumptions are mentioned within the calculations.

DISCLAIMERS:

1. If any of the installation conditions vary from the listed assumptions, an engineer should be contacted to specify the HSS post to be used.
2. The base plate design and connection is not considered a part of the post design. These base plates and connections should be selected by others.
3. Trex and Trex affiliates are not responsible for the foundation or geotechnical design.
4. See Deck Support Post warranty information for maintenance and required site conditions. Deck Support Post cannot be placed below grade.

For more information, visit www.trexdeckpost.com
 Call **888-816-0550** or email info@trexdeckpost.com

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