

CBTZ

Concealed Beam Tie

CBTZ, is part of the concealed structural connector line that combines structural strength with invisibility. Designed to connect horizontal beams atop a vertical post, the CBTZ continues the structural load path into the foundation through the CPTZ. The simplistic cylindrical design allows installations with a common drill bit, eliminating challenging kerf cuts. The CBTZ is available in two models designed to connect beams and posts of a variety of sizes. It is part of a concealed connector system that includes the CPTZ and CJT.

Features:

- Flattened sides assist installer while using the CBTZ as a template
- Locator tabs provide proper dimensional layout
- Required dowel pins included
- Orientation markings distinguish which end installs into the post and which end goes into the beam

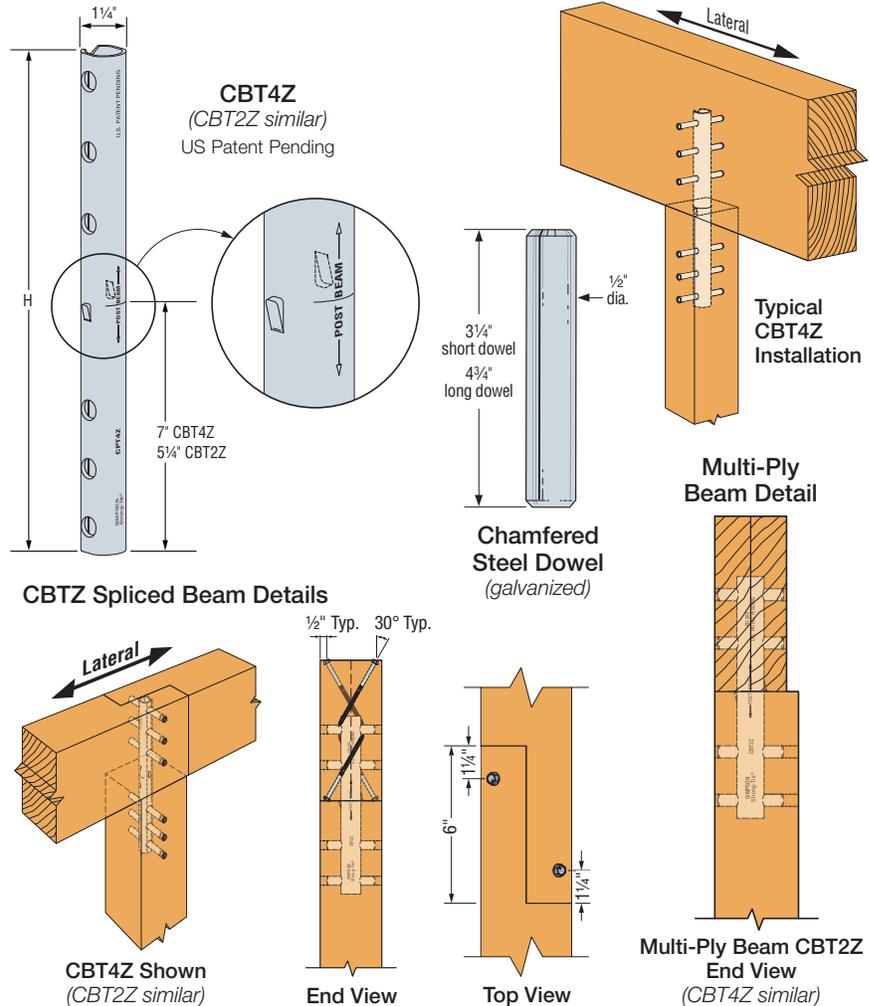
Material: 12 gauge

Finish: CBT — ZMAX® coating; the 1/2"-diameter drift dowels are mechanically galvanized in accordance with ASTM B695, Class 55

Installation:

- Use all specified fasteners; see General Notes
- 1/2" dowels included
- CBT2Z requires a minimum 6"-deep nominal beam
- For step-by-step installation instructions, see technical bulletin T-C-CBTZINS or view our video on strongtie.com

Codes: See p. 11 for Code Reference Key Chart



These products are available with additional corrosion protection. For more information, see p. 14.

Model No.	Post (Min.)	Beam		Dimensions (in.)		CBTZ Fasteners			Splice Fasteners	Allowable Loads (DF/SP)									Code Ref.
		Ply	Size (Min.)	D	H	Qty. Post	Qty. Beam	Type		Continuous Beam			End of Beam			Spliced Beam			
										Uplift (160)	Lateral (160)	Down	Uplift (160)	Lateral (160)	Down	Uplift (160)	Lateral (160)	Down	
Standard Installation																			
CBT2Z	4x4	—	4x6	1 1/4	10	2	2	1/2" x 3 1/4" dowel 1/2" MB	—	2,020	750	6,890	1,585	550	6,890	—	—	—	IBC, FL, LA
CBT4Z	6x6	—	6x8	1 1/4	14	3	3	1/2" x 4 3/4" dowel 1/2" MB	—	4,215	1,655	18,140	3,695	1,055	18,140	—	—	—	IBC, FL, LA
Alternate Installation – Multi-ply Beam																			
CBT2Z	4x4	2	2x6	1 1/4	10	2	2	1/2" x 2 3/4" dowel	—	1,515	550	5,795	1,515	550	5,795	—	—	—	—
CBT4Z	6x6	3	2x8	1 1/4	14	3	3	1/2" x 3 1/4" dowel	—	2,240	1,055	14,700	2,240	1,055	14,700	—	—	—	—
Alternate Installation – Spliced Beam																			
CBT2Z	4x4	—	4x6	1 1/4	10	2	2	1/2" x 3 1/4" dowel	(4) 1/4" x 4 1/2" SDS	—	—	—	—	—	—	1,880	750	6,890	—
CBT4Z	6x6	—	6x8	1 1/4	14	3	3	1/2" x 4 3/4" dowel	(4) 1/4" x 6" SDS	—	—	—	—	—	—	4,215	1,655	18,140	—

1. Uplift and lateral loads have been increased for wind or earthquake loading, with no further increase allowed; reduce where other loads govern.
2. Lateral load is in the direction parallel to the beam.
3. Alternative 1/2"-diameter hex- or square-head machine bolts may be used for loads listed.
4. Lag or carriage bolts are not permitted.
5. Structural composite lumber columns have sides that show either the wide face or the edges of the lumber strands/veneers. Values in the tables reflect dowel or bolt installation into the wide face.

6. See figure for placement of the additional SDS fasteners required for the splice connection.
7. Dowels included in CBTZ kits do not match required lengths for the multi-ply application. The sizes shown in the table above need to be ordered separately or trimmed in the field.
8. Built-up lumber (multiple members) must be fastened together to act as one to resist the applied load (excluding the connector fasteners). This must be determined by the designer.
9. Center CBTZ on built-up beam. Loads are applicable to beam installation flush to one side of post or beam centered on post.