NCA/TB/LTB

Bridging

 $\rm NCA-Nailless$ installation eliminates callbacks for nail squeaks. Designed for secure grip before the drive-home blow, and deeper prong penetration. Precision-formed into a rigid "V" section.

 ${\rm TB}-{\rm Tension-type}$ bridging with maximum nailing flexibility. Use just two of the seven nail holes at each end.

LTB — Staggered nail pattern accommodates 2x8 and 2x10 joists. Use just two of the six nail holes at each end. LTB40 has rigid prongs that install easily into the joist, and embossments that allow crisp bends.

Material: LTB — 22 gauge; NCA and TB — 20 gauge (except NCA2x12-16 — 18 gauge)

Finish: Galvanized

Installation: • Support floor joists with a depth-to-thickness ratio of six or more with bridging at intervals not exceeding 8'. If span is greater than 8', install on 2x8 or larger joists. If span is greater than 16', use more than one pair.

- Tension bridging works only in tension, so must be used in cross pairs.
- Install bridging tightly; loose installation may allow floor movement.
- NCA may be installed before or after sheathing, from the top or bottom. Simply locate the bend line approximately 1" from the joist edge.
- NCA has nail holes in one end for use if a prong is bent during installation. Fully seat nails (0.131" x 1½") if they are used; otherwise, they may lead to squeaks.
- TB requires two 0.148" x 11/2" fasteners per end.
- LTB requires two 0.113" x 2" nails per end.

Tension Bridging for I-Joists

Codes: See p. 11 for Code Reference Key Chart Code Reference: IRC 2012/2015/2018/2021 — R502.7.1, R802.8.1

Joist Joist Spacing (in.) Height 12 16 19.2 24 30 32 36 42 48 (in.) TB27 TB27 TB30 **TB36** 91/2 TB20 TB36 TB42 TB48 TB54 10 TB20 TB27 **TB27** TB30 **TB36** TB42 TB54 TB36 TB48 TB42 TB54 11 7/8 TB20 TB27 **TB27** TB30 TB36 **TB36** TB48 12 TR20 TB27 TB27 TR30 TB36 TB36 **TR42** TB48 TB54 14 TB27 TB27 TB36 TB36 TB42 TB42 TB48 TB54 **TB27** 16 TB27 TB30 TB42 TB42 **TR42** TB54 **TB27** TB36 TB48 18 TB27 TB30 TB30 TB36 TB42 TB42 TB48 TB54 TB56 TB48 TB30 TB42 20 TB30 TB36 TB36 TB42 TB54 TB56 TB42 22 TB30 TB36 TB36 TB42 TB48 TB54 TB56 TB36 24 **TB36** TB36 **TB36** TB42 TB48 **TB48** TB54 TB56 **TB42** 26 **TB36** TB36 **TB36** TB42 TB48 TB48 TB48 TB54 TB60 28 **TB36 TB36 TB42** TB42 TB48 TB48 TB54 TB54 TB60 30 TB42 TB48 TB48 TB54 TB60 **TB36 TB42 TB42 TB56** 32 TB42 TB42 TB48 TB48 TB54 TB42 TB42 **TB56** TB60

Tension Bridging for Solid Sawn Lumber

Joist Size	Spacing (in.)	NCA		TB		LTB	Code
		Model No.	L (in.)	Model No.	L (in.)	Model No.	Ref.
2x10	12	NCA2x10-12	121⁄2	TB20	20	_	
2x12	12	NCA2x12-12	13%	TB20	20	—	
2x14	12	NCA2x8-16	151⁄4	TB27	27	—]
2x16	12	NCA2x10-16	15 ¹³ ⁄16	TB27	27	—	
2x8	16	NCA2x8-16	151⁄4	TB27	27	LTB20 or 40	IBC,
2x10	16	NCA2x10-16	15 ¹³ ⁄16	TB27	27	LTB20 or 40	
2x12	16	NCA2x12-16	167⁄8	TB27	27	—	
2x14	16	—	_	TB27	27	_	, -/,
2x16	16			TB27	27	_	
2x10	24	_	—	TB30	30	_	
2x12	24	_	—	TB30	30	_	
2x14	24	—	—	TB36	36	—	
2x16	24		_	TB36	36		



SIMPSON

Strong-Tie

Typical TB Installation

may cause squeaks).