



## Installation of Simpson Strong-Tie® Connectors Parallel to Gluelines of Versa-Lam® Beams & Columns

Simpson Strong-Tie connectors should be installed into the wide face (perpendicular to gluelines) of all structural composite lumber, including VERSA-LAM beams and columns, whenever possible. When installed into VERSA-LAM's narrow face (parallel to gluelines), Simpson connectors shall be designed with a reduction in capacity per the table below. Please consult the Simpson Strong-Tie literature for connector design values.

### Reduction Factors for Parallel to Glueline Installations

Connector Type	Applicable Simpson Strong-Tie Connector Series	Reduction Factor
Column Caps - Bolted Applications	CC, ECC, CB, LCB (bolted only)	0.90
Column Caps & Post Caps - Nailed Applications	BC, AC, ACE, PC, LPC, ABA, ABE	0.90
	ABU, PB, PBS, EPB, LCB (nailed only)	Do not install
Column Caps - SDS screw Applications	ECCQ, CCQ, CBSQ, CBQ, HUCQ	0.90
Straps, Strap Holdowns & misc - Nailed Applications	HTT22, LTT20B, LTT131, FSC, STHD, LSTHD	0.75
	MSTC, MSTI, LSTI, LSTA, MSTA (Min. 3" fastener end distance)	0.75
	MSTC, MSTI, LSTI, LSTA, MSTA (Min. 1.5" fastener end distance)	0.50
	HTT16, MTT28B, LTT19, LCE	0.65
	MST, ST, CMST, PA, PAI, CS, PAHD, HPAHD	Do not install
Holdowns - SDS Screw Applications Less than 6000 lbs.	HDU, HDC, PHD	0.75
Holdowns - SDS Screw Applications Greater than 6000 lbs.	HDU, HDC, HHDQ	0.75
Holdowns - Bolted Applications Less than 4000 lbs.	HD, HD-A	0.60
Holdowns - Bolted Applications Greater than 4000 lbs.	HD, HD-A	0.45

1. These factors apply to uplift loads for column caps and bases; tensions loads for holdowns and straps; both download and uplift for joist hangers. Use full catalog download and lateral load values for column caps and bases.

### Notes

- 1) Reduction values based upon empirical testing conducted by Simpson Strong-Tie.
- 2) Reductions will be incorporated into future Simpson Strong-Tie literature.
- 3) For connectors not manufactured by Simpson Strong-Tie, contact the connector manufacturer for reduction factors of installation parallel to gluelines of structural composite lumber products.

