



BareNaked

STRONGER, SMARTER, AND COST EFFECTIVE

96% Complete Thermal Break Through The Stud

Patent #10731332 | Info@Tstud.com | 612.290.6199 | www.Tstud.com



2x8

7.25" BareNaked Tstud™
 Certified to crush #2 SPF
 Bottom plate at 4400#

Certified to crush LSL or LVL
 Bottom plate at 7565#

Lengths Available:
 92 5/8", 8', 104 5/8", 9', 10', 12', 14**
 and 16** (*special order only)

2x6

5.5" BareNaked Tstud™
 Certified to crush #2 SPF
 Bottom plate at 3600#

Certified to crush LSL or LVL
 Bottom plate at 5600#

Lengths Available:
 92 5/8", 8', 104 5/8", 9', 10', and 12'



SI: 1 in = 25.4 mm, 1 F-ft²-h/Btu = 0.1761 K-m²/W

1. Stud spacing at 24" o.c.
2. Values are for the opaque sections of the wall only. Assumes double 2x6 top plates and a single 2x6 bottom plate. Additional framing for openings in the wall are not considered.
3. The thermal break is defined as the distance between the flange and spline of the Tstud™ (Figure 1) plus any CI. See TER 1908-02 for BareNaked Tstud™ dimensions.
4. All material R values must be verified for the actual assembly being constructed.

		Thermal Break (in)	US Imperial Effective R-Value (h*ft ² /Btu)	US Imperial U-Factor (h*ft ² /Btu)	Canadian Metric U-Factor
5.5" BareNaked Tstud™	Dense Pack Cellulose, R=3.7/in.	1.5	20.4	0.048	0.27
	Dense Pack Fiberglass, R=4.18/in.	1.5	23.0	0.044	0.25
	R5 Cont. Rigid Insul & Dense Pack Fiberglass, R=4.18/in.	2.5	28.0	0.036	0.20
	5" Closed Cell Spray Foam, R=6.7/in.,	1.5	33.5	0.032	0.18
7.25" BareNaked Tstud™	Dense Pack Cellulose, R=3.7/in.	2.25	26.8	0.037	0.21
	Dense Pack Fiberglass, R=4.18/in.	2.25	30.3	0.037	0.21
	R5 Cont. Rigid Insul & Dense Pack Fiberglass, R=4.18/in.	3.25	35.3	0.030	0.17
	5" Closed Cell Spray Foam, R=6.7/in.,	2.25	33.5	0.025	0.14

HURRICANE CATEGORY 1-5 COMPLIANT | SEISMIC ZONE A-F COMPLIANT | #ENGINEEREDWOOD

Table 3. Allowable Compressive Load for Walls Framed with 5.5" BareNaked Tstud™^{1,2}

Stud Height (ft)	Allowable Compressive Load (lb)		
	Top/Bottom Plate		
	BareNaked Tstud™ (SPF) (SG = 0.42) ³	Southern Pine (SYP) (SG = 0.55) ⁴	LVL or LSL ⁵
8	3,665	4,875	5,930
9	3,665	4,875	5,350
10	3,665	4,750	4,750
11	3,665	4,175	4,175
12	3,660	3,660	3,660
13	3,210	3,210	3,210
14	2,825	2,825	2,825

SI: 1 in. = 25.4 mm, 1 lb. = 4.45 N

- Maximum stud spacing of 24".
- Compression perpendicular to grain is assumed to be 425 psi for BareNaked Tstud™, 565 psi for SYP, 820 for LVL, and 800 for LSL (adjusted per NDS Section 3.10.4).
- Compression perpendicular to grain of the BareNaked Tstud™ or SPF top and bottom plates controls for walls less than or equal to 11 ft. in height.
- Compression perpendicular to grain of the SYP top and bottom plates controls for walls less than or equal to 9 ft. in height.
- Compression perpendicular to grain of the LVL or LSL top and bottom plates does not control.

Table 4. Allowable Compressive Load for Walls Framed with 7.25" BareNaked Tstud™^{1,2}

Stud Height (ft)	Allowable Compressive Load (lb)		
	Top/Bottom Plate		
	BareNaked Tstud™ (SPF) (SG = 0.42)	Southern Pine (SYP) (SG = 0.55)	LVL or LSL
8	4,400	5,850	7,565
9	4,400	5,850	7,155
10	4,400	5,850	6,670
11	4,400	5,850	6,135
12	4,400	5,580	5,580
13	4,400	5,040	5,040
14	4,400	4,530	4,530
15	4,075	4,075	4,075
16	3,665	3,665	3,665

SI: 1 in. = 25.4 mm, 1 lb. = 4.45 N

- Maximum stud spacing of 24".
- Minimum compression perpendicular to grain is 425 psi for BareNaked Tstud™, 565 psi for SYP, 820 for LVL, and 800 for LSL (adjusted per NDS Section 3.10.4).