

UNINSULATED TSTUD™

STRONGER, SMARTER, AND COST EFFECTIVE

96% Complete Thermal Break Through The Stud

PATENT #10731332 | THERMALSTUDS.COM/UNINSULATEDTSTUD

~24-75% REDUCTION IN HEATING + COOLING COSTS

Depending on insulation choice and ACH



2x6

5.5" Uninsulated 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'

2x8

7.25" Uninsulated 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)



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 ² ft ² F/Btu)	US Imperial U-Factor (h ² ft ² F/Btu)	Canadian Metric U-Factor
5.5" Uninsulated 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" Uninsulated 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



Thermal Studs



Stud Spacing (in)	Wall Height (ft)	Allowable Compression Load (lb) & (Deflection Ratio)									
		Components & Cladding Wind Pressure (psf)									
		15	20	25	30	35	40	45	50	55	60
12	8	3,665 (L/2161)	3,665 (L/1621)	3,665 (L/1297)	3,665 (L/1081)	3,665 (L/926)	3,665 (L/810)	3,665 (L/720)	3,665 (L/648)	3,665 (L/589)	3,665 (L/540)
	9	3,665 (L/1497)	3,665 (L/1123)	3,665 (L/898)	3,665 (L/748)	3,665 (L/641)	3,665 (L/561)	3,325 (L/499)	2,980 (L/449)	2,635 (L/408)	2,290 (L/374)
	10	3,665 (L/1079)	3,665 (L/809)	3,295 (L/647)	2,865 (L/540)	2,435 (L/462)	2,010 (L/405)	1,580 (L/360)	1,155 (L/324)	725 (L/294)	295 (L/270)
	12	2,080 (L/614)	1,460 (L/461)	835 (L/368)	210 (L/307)	-	-	-	-	-	-
	14	400 (L/382)	-	-	-	-	-	-	-	-	-
16	8	3,665 (L/1621)	3,665 (L/1216)	3,665 (L/973)	3,665 (L/810)	3,665 (L/695)	3,665 (L/608)	3,665 (L/540)	3,665 (L/486)	3,610 (L/442)	3,250 (L/405)
	9	3,665 (L/1123)	3,665 (L/842)	3,665 (L/674)	3,665 (L/561)	3,210 (L/481)	2,750 (L/421)	2,290 (L/374)	1,830 (L/337)	1,370 (L/306)	910 (L/281)
	10	3,665 (L/809)	3,150 (L/607)	2,580 (L/486)	2,010 (L/405)	1,440 (L/347)	865 (L/303)	295 (L/270)	-	-	-
	12	1,460 (L/461)	625 (L/345)	-	-	-	-	-	-	-	-
24	8	3,665 (L/1081)	3,665 (L/810)	3,665 (L/648)	3,665 (L/540)	3,665 (L/463)	3,250 (L/405)	2,715 (L/360)	2,175 (L/324)	1,635 (L/295)	1,095 (L/270)
	9	3,665 (L/748)	3,665 (L/561)	2,980 (L/449)	2,290 (L/374)	1,600 (L/321)	910 (L/281)	225 (L/249)	-	-	-
	10	2,865 (L/540)	2,010 (L/405)	1,155 (L/324)	295 (L/270)	-	-	-	-	-	-
	12	210 (L/307)	-	-	-	-	-	-	-	-	-

SI: 1 in. = 25.4 mm, 1 psf = 0.0479 kN/m²

1. Wind speed provided assumes Exposure Category B, Enclosed Building, Mean Roof Height 30'
2. Walls constructed with BareNaked Tstud™ studs and SPF top and bottom plates.

PATENT #10731332 | THERMALSTUDS.COM/UNINSULATEDTSTUD



Thermal Studs



Stud Spacing (in)	Wall Height (ft)	Allowable Compression Load (lb) & (Deflection Ratio)									
		Components & Cladding Wind Pressure (psf)									
		15	20	25	30	35	40	45	50	55	60
12	8	4400 (L/4167)	4400 (L/3126)	4400 (L/2500)	4400 (L/2084)	4400 (L/1786)	4400 (L/1563)	4400 (L/1389)	4400 (L/1250)	4400 (L/1137)	4400 (L/1042)
	9	4400 (L/2886)	4400 (L/2165)	4400 (L/1732)	4400 (L/1443)	4400 (L/1237)	4400 (L/1082)	4400 (L/962)	4400 (L/866)	4400 (L/787)	4400 (L/722)
	10	4400 (L/2081)	4400 (L/1561)	4400 (L/1248)	4400 (L/1040)	4400 (L/892)	4400 (L/780)	4400 (L/694)	4400 (L/624)	4400 (L/567)	4115 (L/520)
	12	4400 (L/1184)	4355 (L/888)	3830 (L/711)	3310 (L/592)	2785 (L/508)	2260 (L/444)	1735 (L/395)	1210 (L/355)	685 (L/323)	165 (L/296)
	14	2805 (L/737)	2090 (L/553)	1370 (L/442)	650 (L/369)	--	--	--	--	--	--
	16	1060 (L/489)	115 (L/367)	--	--	--	--	--	--	--	--
16	8	4400 (L/3126)	4400 (L/2344)	4400 (L/1875)	4400 (L/1563)	4400 (L/1340)	4400 (L/1172)	4400 (L/1042)	4400 (L/938)	4400 (L/852)	4400 (L/781)
	9	4400 (L/2165)	4400 (L/1624)	4400 (L/1299)	4400 (L/1082)	4400 (L/928)	4400 (L/812)	4400 (L/722)	4400 (L/649)	4400 (L/590)	4400 (L/541)
	10	4400 (L/1561)	4400 (L/1170)	4400 (L/936)	4400 (L/780)	4400 (L/669)	4400 (L/585)	4115 (L/520)	3635 (L/468)	3155 (L/426)	2675 (L/390)
	12	4355 (L/888)	3655 (L/666)	2960 (L/533)	2260 (L/444)	1560 (L/381)	860 (L/333)	165 (L/296)	--	--	--
	14	2090 (L/553)	1130 (L/415)	170 (L/332)	--	--	--	--	--	--	--
	16	115 (L/367)	--	--	--	--	--	--	--	--	--
24	8	4400 (L/2084)	4400 (L/1563)	4400 (L/1250)	4400 (L/1042)	4400 (L/893)	4400 (L/781)	4400 (L/695)	4400 (L/625)	4400 (L/568)	4400 (L/521)
	9	4400 (L/1443)	4400 (L/1082)	4400 (L/866)	4400 (L/722)	4400 (L/618)	4400 (L/541)	4340 (L/481)	3765 (L/433)	3185 (L/394)	2605 (L/361)
	10	4400 (L/1040)	4400 (L/780)	4400 (L/624)	4115 (L/520)	3395 (L/446)	2675 (L/390)	1955 (L/347)	1235 (L/312)	515 (L/284)	--
	12	3310 (L/592)	2260 (L/444)	1210 (L/355)	165 (L/296)	--	--	--	--	--	--
	14	650 (L/369)	--	--	--	--	--	--	--	--	--

SI: 1 in. = 25.4 mm, 1 psf = 0.0479 kN/m²

1. Wind speed provided assumes Exposure Category B, Enclosed Building, Mean Roof Height 30'
2. Walls constructed with BareNaked Tstud™ studs and SPF top and bottom plates.

PATENT #10731332 | THERMALSTUDS.COM/UNINSULATEDTSTUD



Thermal Studs

