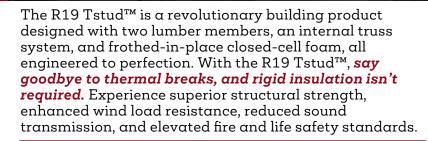
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## R19TSTUD

Structural Insulated Framing System

STRONGER, SMARTER, AND COST EFFECTIVE

US PATENT NO. 9783985 | THERMALSTUDS.COM/R19TSTUI



2x6

5.5" R19 Tstud™ Certified to crush #2 SPF

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', 12', 14'\* and 16'\* (\*special order only)

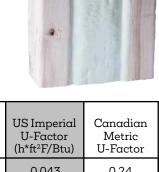
**R19** 

VS.

R6.8 STANDARD 2X6

5.5" R19 Tstud w/ R21 Fiberglass Batt





Thermal Break (in)	US Imperial Effective R-Value (h*ft²F/Btu)	US Imperial U-Factor (h*ft²F/Btu)	Canadian Metric U-Factor
2.5	23.4	0.043	0.24

98% COMPLETE
THERMAL BREAK
THROUGH THE WALL ASSEMBLY

Wall Assembly Layer or Component	R Value
Exterior Air Film	0.17
Wood Siding	0.81
OSB Sheathing	0.55
R19 Tstud	19
Insulation	Varies
1/2" Gypsum Drywall	0.45
Interior Air Film	0.68

HURRICANE CATEGORY 1-5 COMPLIANT | SEISMIC ZONE A-F COMPLIA





Table 3. Allowable Compressive Load for Walls Framed with SPF No. 2 Tstud™

	Allowable Compressive Load¹ (lbs)					
Stud Height (ft)	Top/Bottom Plate <sup>2</sup>					
	Tstud™ (SPF) (SG = 0.42)³	Southern Pine (SP) (SG = 0.55) <sup>4</sup>	LVL <sup>5</sup>	LSL <sup>6</sup>		
8	3665	4875	7070	6900		
9	3665	4875	7035	6900		
10	3665	4875	6565	6565		
11	3665	4875	6045	6045		
12	3665	4875	5505	5505		
13	3665	4875	4975	4975		
14	3665	4475	4475	4475		
15	3665	4025	4025	4025		
16	3625	3625	3625	3625		

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

- 1. Maximum stud spacing of 24".
- 2. Compression perpendicular to grain is assumed to be 425 psi for Tstud™ and SPF, 565 psi for SP, 820 for LVL, and 800 for LSL (adjusted per NDS Section 3.10.4). Adjustment for plates having a higher or lower compression perpendicular to grain value is required.
- 3. Compression perpendicular to grain of the Tstud™ or SPF top and bottom plates controls for walls less than or equal to 15 ft. in height.
- 4. Compression perpendicular to grain of the SP top and bottom plates controls for walls less than or equal to 13 ft. in height.
- 5. Compression perpendicular to grain of the LVL top and bottom plates controls for walls less than or equal to 8 ft. in height.
- 6. Compression perpendicular to grain of the LSL top and bottom plates controls for walls less than or equal to 9 ft. in height.

