1-888-474-4876

The Steel Network, Inc. www.steelnetwork.com In

StiffClip[®]

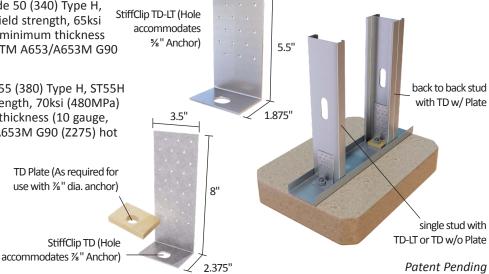
Uplift Connector

Material Composition

TD-LT: ASTM A1003/A1003M Structural Grade 50 (340) Type H, ST50H (ST340H): 50ksi (340MPa) minimum yield strength, 65ksi (450MPa) minimum tensile strength, 118mil minimum thickness (10 gauge, 0.1242" design thickness) with ASTM A653/A653M G90 (Z275) hot dipped galvanized coating.

TD: ASTM A1003/A1003M Structural Grade 55 (380) Type H, ST55H (ST380H): 55ksi (380MPa) minimum yield strength, 70ksi (480MPa) minimum tensile strength, 118mil minimum thickness (10 gauge, 0.1242" design thickness) with ASTM A653/A653M G90 (Z275) hot dipped galvanized coating.

TD Plate: ASTM A36/A36M: 36ksi (250MPa) minimum yield strength, 58-80ksi (400-550MPa) minimum tensile strength, with ASTM B633 Type II Yellow Zinc Coating, Paint, Powder Coating, or E-Coating, or approved equivalent.



3.5"

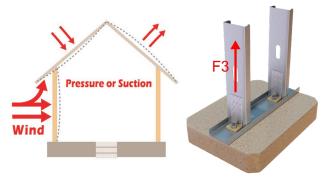
StiffClip TD Allowable Loads for Steel Framing

Stiffelip 15 Allowable Loads for Steel Halling									
StiffClip® TD, Recommended Allowable Loads for Steel Framing (lbs): F3 Load Direction									
	TD-LT			TD w/o Plate			TD w/ Plate		
Screw Patterns with #12 Screws	4 Screws	6 Screws	8 Screws	6 Screws	8 Screws	12 Screws	12 Screws	18 Screws	27 Screws
33mil (20ga), 33ksi Stud	752	1,128	1,504	1,128	1,504	2,256	2,256	3,384	5,076
33mil (20ga), 50ksi Stud	1,088	1,632	2,176	1,632	2,176	3,264	3,264	4,896	7,344
43mil (18ga), 33ksi Stud	1,120	1,680	2,240	1,680	2,240	3,360	3,360	5,040	7,560
43mil (18ga), 50ksi Stud	1,620	2,430	3,240	2,430	3,240	4,412	4,860	7,290	9,826
54mil (16ga), 33ksi Stud	1,576	2,364	3,152	2,364	3,152	4,412	4,728	7,092	9,826
54mil (16ga), 50ksi Stud	2,276	3,414	3,764	3,414	4,412	4,412	6,828	9,826	9,826
68mil (14ga), 50ksi Stud	2,868	3,764	3,764	4,302	4,412	4,412	8,604	9,826	9,826
97mil (12ga), 50ksi Stud	2,868	3,764	3,764	4,302	4,412	4,412	8,604	9,826	9,826
Maximum Allowable Clip Load		3,764			4,412			9,826	

Table Notes:

- 1. Design loads are for attachment of StiffClip TD to stud only. Load tables reflect vertical loads (F3).
- 2. Design loads consider loads on the clip and #12 screw fasteners to the stud web for steel framing.
- 3. Attachment to structure engineered by others.
- 4. Allowable loads have not been increased for wind, seismic, or other factors.
- 5. Fasten within 1-1/4" from the heel angle using the existing anchor hole.
- 6. Guide holes are in place for fastener installation efficiency. The number of fasteners are determined by the designer.
- 7. Attachment to stud is made with up to 27 #12 screws, symmetrically place.
- 8. For LRFD strengths contact TSN technical services.

Load Directions:

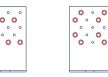


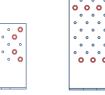
Screw Patterns:



4 Screws

0 0 0 0 0 0 **TD-LT Plate**











0 0 0 0 0 0 0 0 0



TD-LT Plate TD-LT Plate 8 Screws 6 Screws

TD w/o Plate TD w/o Plate 6 Screws

8 Screws

TD w/o Plate 12 Screws

TD w/ Plate 12 Screws

TD w/ Plate 18 Screws

TD w/ Plate 27 Screws

StiffClip TD Allowable Loads

StiffClip® TD-LT, Recommended Allowable Loads for Wood Framing (lbs): F3							
Screw/Nail Patterns	Douglas	Fir / Southern Yell	ow Pine	Spruce Pine-Fir / Hem-Fir			
	8 Fasteners	12 Fasteners	18 Fasteners	8 Fasteners	12 Fasteners	18 Fasteners	
10d Nails	1,830	2,746	3,764	1,472	2,208	3,312	
16d Nails	2,125	3,187	3,764	1,715	2,573	3,764	
#12 Wood Screw	2,227	3,764	3,764	1,792	2,688	3,764	
Maximum Allowable Clip Load	3,764			3,764			

StiffClip® TD w/o Plate, Recommended Allowable Loads for Wood Framing (lbs): F3							
Screw/Nail Patterns	Douglas	Fir / Southern Yell	ow Pine	Spruce Pine-Fir / Hem-Fir			
	8 Fasteners	12 Fasteners	18 Fasteners	8 Fasteners	12 Fasteners	18 Fasteners	
10d Nails	1,830	2,746	4,118	1,472	2,208	3,312	
16d Nails	2,125	3,187	4,412	1,715	2,573	3,859	
#12 Wood Screw	2,227	3,341	4,412	1,792	2,688	4,032	
Maximum Allowable Clip Load		4,412			4,412		

StiffClip® TD w/ Plate, Recommended Allowable Loads for Wood Framing (lbs): F3							
Screw/Nail Patterns	Douglas	Fir / Southern Yell	ow Pine	Spruce Pine-Fir / Hem-Fir			
	8 Fasteners	12 Fasteners	18 Fasteners	8 Fasteners	12 Fasteners	18 Fasteners	
10d Nails	2,746	4,118	6,178	2,208	3,312	4,968	
16d Nails	3,187	4,781	7,171	2,573	3,859	5,789	
#12 Wood Screw	3,341	5,011	7,517	2,688	4,032	6,048	
Maximum Allowable Clip Load		9,826			9,826		

Table Notes:

- 1. Design loads are for attachment of StiffClip TD to stud only. Load tables reflect vertical loads (F3).
- 2. Design loads consider loads on the clip and listed fasteners to the stud web for wood framing.
- 3. Attachment to structure engineered by others.
- 4. Allowable shear for nails and screws is increased 60% for wind and seismic loads in wood framing.
- 5. Fasten within 1-1/4" from the heel angle using the existing anchor hole.
- 6. Guide holes are in place for fastener installation efficiency. The number of fasteners are determined by the designer.
- 7. Attachment to stud is made with up to 27 #12 screws, symmetrically place.
- 8. For wood with moisture content > 19%, consult The Steel Network, Inc. for reduction in values.
- 9. For LRFD strengths contact TSN technical services.

Nomenclature

StiffClip TD-LT is available in one size without the use of the 'TD Plate'. Contact TSN about installation with alternate anchor sizes.

StiffClip TD is available in one size and can be used with or without a ¾" plate on top of the 2 ½" leg. Anchor hole accommodates ½" diameter anchor.

Example: 6" stud, 3%" dia. anchor to concrete, holddown without plate

Designate: StiffClip® TD-LT

Example: 8" stud, %" dia. anchor to concrete, holddown with plate

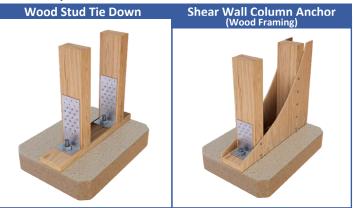
Designate: StiffClip® TD w/ Plate

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Steel Example Details



Wood Example Details



Other Example Details





StiffClip TD Series Blast and Seismic Design Data www.steelnetwork.com

^{**} For more information or to review a copy of this report, please visit our website at http://www.steelnetwork.com/Site/TechnicalData