

StiffClip® TD

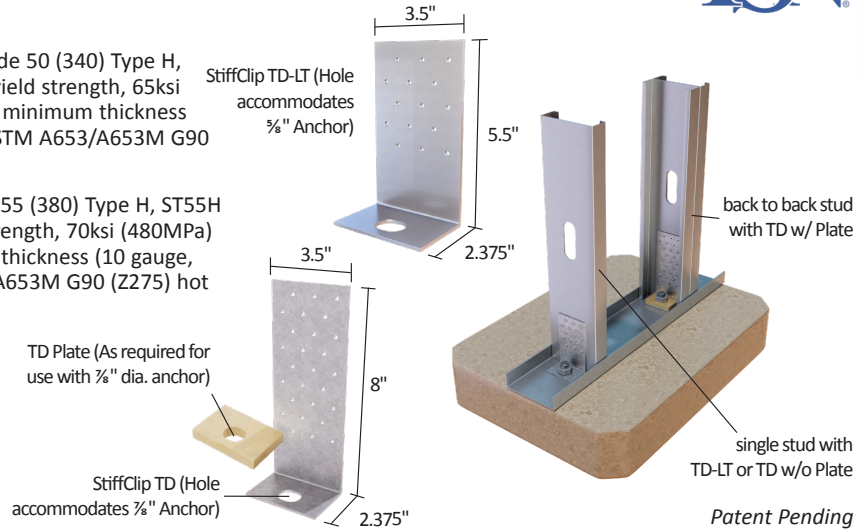
Uplift Connector

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.



Patent Pending

StiffClip TD Allowable Loads

StiffClip® TD, Recommended Allowable Load for Steel Framing (lbs): F3 Load Direction									
Screw Patterns with #12 Screws	TD-LT			TD w/o Plate			TD w/ Plate		
	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	3,976	3,414	4,412	4,412	6,828	9,826	9,826
68mil (14ga), 50ksi Stud	2,868	3,976	3,976	4,302	4,412	4,412	8,604	9,826	9,826
97mil (12ga), 50ksi Stud	2,868	3,976	3,976	4,302	4,412	4,412	8,604	9,826	9,826
Maximum Allowable Clip Load	3,976			4,412			9,826		

StiffClip® TD, Recommended Allowable Load for Wood Framing (lbs): F3						
Screw/Nail Patterns	Douglas Fir / Southern Yellow Pine			Spruce Pine-Fir / Hem-Fir		
	8 Fasteners	12 Fasteners	18 Fasteners	8 Fasteners	12 Fasteners	18 Fasteners
10d Nails	1,830	2,746	3,976	1,472	2,208	3,312
16d Nails	2,125	3,187	3,976	1,715	2,573	3,859
#12 Wood Screw	2,227	3,976	3,976	1,792	2,688	3,976
Maximum Allowable Clip Load	3,976			3,976		

StiffClip® TD, Recommended Allowable Load for Wood Framing (lbs): F3						
Screw/Nail Patterns	Douglas Fir / Southern Yellow 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, Recommended Allowable Load for Wood Framing (lbs): F3						
Screw/Nail Patterns	Douglas Fir / Southern Yellow 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		



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The Steel Network, Inc.

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. Design loads consider loads on the clip and listed fasteners to the stud web for wood framing.
4. Attachment to structure engineered by others.
5. Allowable loads have not been increased for wind, seismic, or other factors.
6. Allowable shear for nails and screws is increased 60% for wind and seismic loads in wood framing.
7. Fasten within 1 1/4" from the heel angle using the existing anchor hole.
8. Guide holes are in place for fastener installation efficiency. The number of fastener are determined by the designer.
9. Attachment to stud is made with up to 27 #12 screws, symmetrically place.
10. For wood, moisture content > 19%, consult The Steel Network, Inc. for reduction in values.
11. 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 3/4" plate on top of the 2 3/8" leg. Anchor hole accommodates 7/8" diameter anchor.

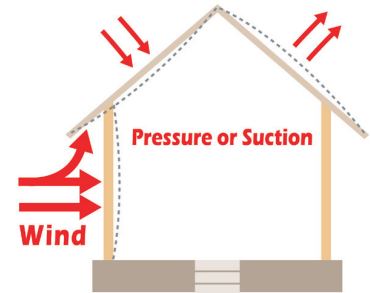
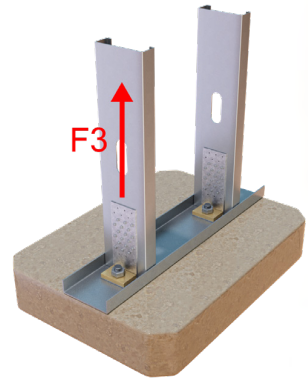
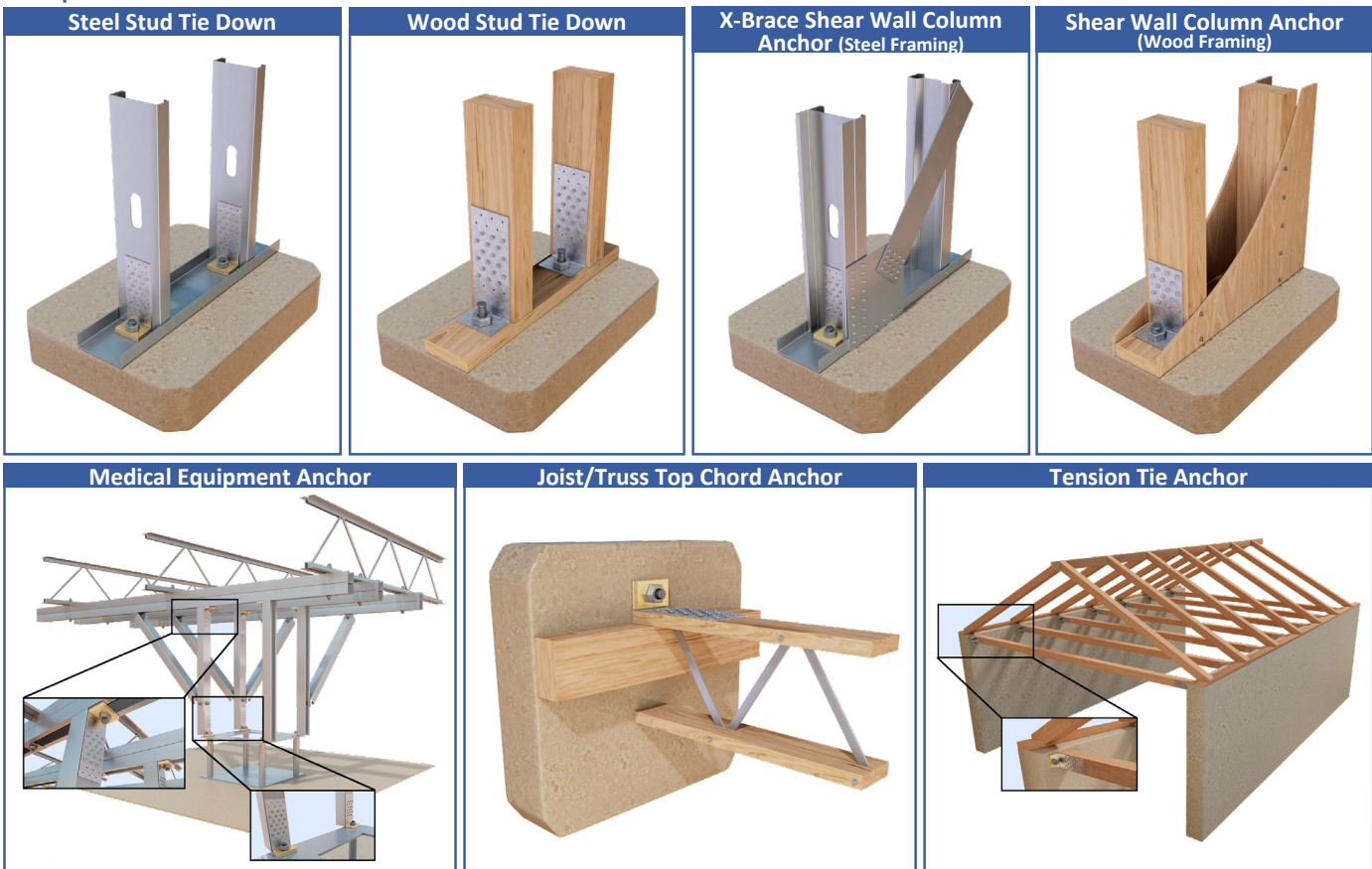
Example: 6" stud, 3/8" dia. anchor to concrete, holddown without plate

Designate: StiffClip® TD-LT

Example: 8" stud, 7/8" dia. anchor to concrete, holddown with plate

Designate: StiffClip® TD w/ Plate

Example Details



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