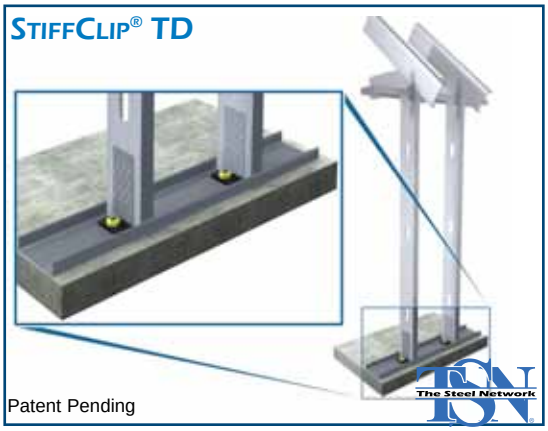
Product Application

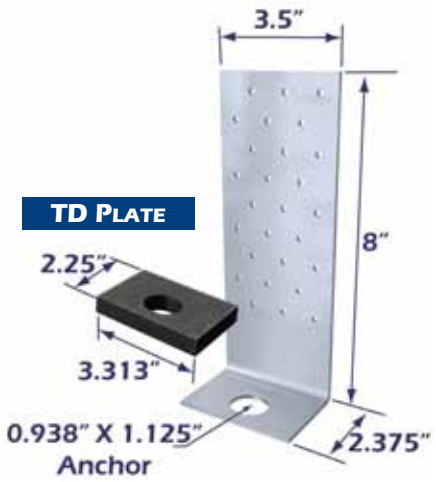
The StiffClip® TD series' unique design allows for the anchoring of steel studs to the foundation incorporating a .5" steel stiffening plate for strength.
StiffClip TD resists vertical uplift loads for an effective solution in wall stud tie-downs or as the anchorage component in conventional, strap/gusset-plate shear wall construction. The allowable design load table is based on the use of StiffClip TD as it is attached to various steel stud wall material thicknesses and yield strengths. Allowable loads consider loads on the clip and screw fasteners to the stud web. Pre-drilled holes for attachments to both deck and stud provide installers with increased efficiency.
The designed attachment of StiffClip to the primary structure is dependent upon the base material's properties (e.g. steel or concrete) and the design configuration.



Material Composition

Steel: ASTM A653/A653M, Grade 60 (410), 60ksi (410 MPa) minimum yield strength, 70ksi (480 MPa) minimum tensile strength, G-90 (Z275) hot-dipped galvanized coating. Material thickness = 118mil (10 gauge, 0.124" design thickness). TD Plate: ASTM A572, Grade 50 (345).
When determining the allowable load of fasteners securing StiffClip to the base material and clip to stud, consider the following:

- Fasten within 1.25" from the angle heel using the existing anchor hole.
- Anchor hole for the clip is .938" x 1.125"; plate = .938" diameter.
- Guide holes are in place for fastener installation efficiency. The number of fasteners are determined by the designer.
- Attachment to stud is made with up to 27 #12 screws, symmetrically placed.



StiffClip TD Nomenclature

The StiffClip TD product group is available in one size and utilizes a .5" plate on top of the 2.375" leg.

Designate: StiffClip TD.

Quantity / Order Information

Designation	Qty/ Box	Lbs/ Box	Pcs/ Skid	Lbs/ Skid
StiffClip TD	25	54	1125	2408

StiffClip TD Value

- Guide holes for connections to stud and deck
- Stiffening plate for additional strength
- Clip utilizes mill-certified, 60ksi steel
- Reduces material (replaces heavy steel angles)
- Extensively tested

Allowable Loads

Stud Thickness Mils (ga)	Fy (yield) Stud (ksi)	F3 w/12 (#12) Screws (kips)	F3 w/18 (#12) Screws (kips)	F3 w/27 (#12) Screws (kips)
33 (20)	33	2.261	3.391	5.087
33 (20)	50	3.266	4.900	7.349
43 (18)	33	3.365	5.047	7.571
43 (18)	50	4.861	7.292	10.718
54 (16)	33	4.732	7.097	10.646
54 (16)	50	6.834	10.251	10.718
68 (14)	50	9.662	10.718	10.718
97 (12)	50	10.188	10.718	10.718

- **Allowable loads have not been increased for wind, seismic, or other factors.**
- **Maximum allowable clip capacity = 10.718 kips.**

StiffClip TD Installation

Place StiffClip TD at bottom of stud and attach clip to deck with approved anchor.

Secure clip to stud with required amount of symmetrically placed #12 screw fasteners.

Load Direction

Raleigh, NC : Phone (919) 845-1025
Las Vegas, NV : Phone (702) 643-4330
Toll Free Nationwide Phone (888) 474-4876
www.steelnetwork.com