

Holdowns for CFS Construction

TDS series

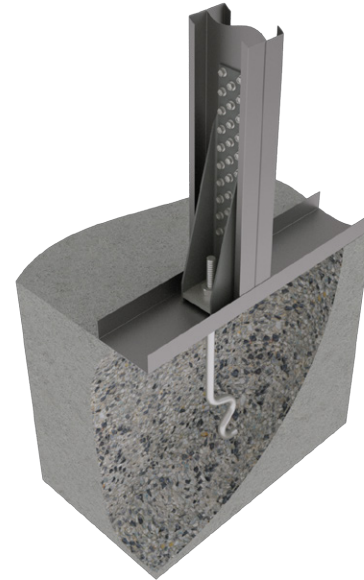
The **TD8S**, **TD10S**, and **TD15S** are high capacity holdowns which are designed for attachment to cold formed steel (CFS) framing members. Holdowns are secured at the base by attachment to an anchor bolt.

Materials: See chart

Finish: USP primer

Installation:

- Use #10 self-tapping screws to attach the back or strap portion of the holddown to a steel stud. Install nut to secure the base of holddown to foundation with anchor bolt of specified diameter.
- A design professional shall specify the type, length, and embedment depth of the anchor bolt.
- Install anchor bolt nut to base of holddown until finger tight, then tighten an additional 1/3 to 1/2 turns with a wrench.



Typical TD10S installation



TD10S

USP Stock No.	Ref No.	Steel Thickness		Dimensions (in)			Fastener Schedule			CFS Member			ASD		LRFD		Nominal Tension Load ⁶ (lbs)	Ctn Qty
		Body	Base	W	L	CL	Anchor Bolt ² Dia. (in)	Stud Screws ⁴		Stud ^{1,3}	Tension Load (lbs)	Deflection at ASD Load ⁵ (in)	Tension Load (lbs)	Deflection at LRFD Load ⁵ (in)				
								Qty	Type						Ply	Mills		
TD8S	S/HD8S	10	3/8	2-1/2	13-7/8	1-5/8	7/8	24	#10	2	33	33	8250	0.074	13200	0.164	22325	1
										2	43	33	10115	0.109	16350	0.242	27650	
										2	54	50	10900	0.091	17435	0.205	29485	
TD10S	S/HD10S	10	3/8	2-1/2	16-1/8	1-5/8	7/8	30	#10	2	33	33	8690	0.071	13900	0.159	24575	1
										2	43	33	9310	0.076	14900	0.195	26335	
										2	54	50	9985	0.058	15975	0.146	28235	
TD15S	S/HD15S	7	1/2	2-5/8	21-1/2	1-11/16	1	48	#10	2	33	33	11780	0.075	18845	0.146	33410	1
										2	43	33	13770	0.100	22035	0.192	39065	
										2	54	50	15920	0.096	25475	0.144	45160	

1) Back-to-back stud members are required.
 2) The designer must specify anchor bolt type, length, and embedment.
 3) Designer shall verify the adequacy of the steel studs to transfer the required load.
 4) #10 designates ASTM C1513 compliant self-tapping screws that are 0.190" dia. with a minimum 0.340" diameter head and must fully penetrate all CFS steel members.
 5) Holddown deflection at ASD and LRFD static test load includes fastener slip, holddown deflection, and anchor bolt elongation.
 6) The nominal tension load is based on the average of the ultimate tested values.