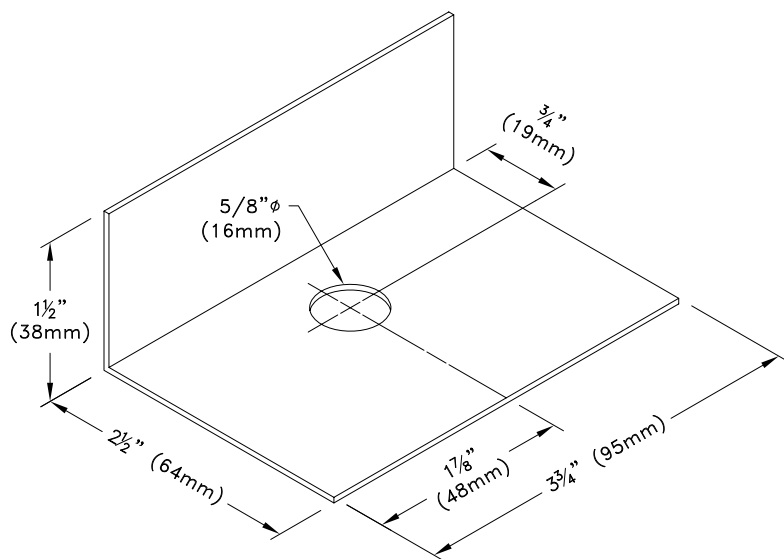


Allowable Loads – lbs (kN) <sup>A,B</sup>			
Clip Size	Clip on One Face <sup>C</sup>		
	U	P1	P2
16 ga	320 (1.42) <sup>D</sup>	160 (0.71)	420 (1.87)
12 ga	320 (1.42) <sup>D</sup>	160 (0.71)	420 (1.87)

- A. Allowable loads shown on this detail are not in combination.  
 B. Design values are for uncracked masonry.  
 C. Uplift connections with clip on one face require a web above connection. For values in chart, TSC2.75 minimum web is 33W.75x.75 and any web size is acceptable for TSC3.00 or TSC4.00..  
 D. If web above connection is 33W.75x1.5,  
 U = 480 lbs (2.14 kN) with 16g clip and  
 U = 570 lbs (2.54 kN) with 12g clip.



Clip A

16 ga ASTM A653 SS Grade 33 G60  
 Bare metal thickness,  $t = 0.0538"$  (1.37mm)

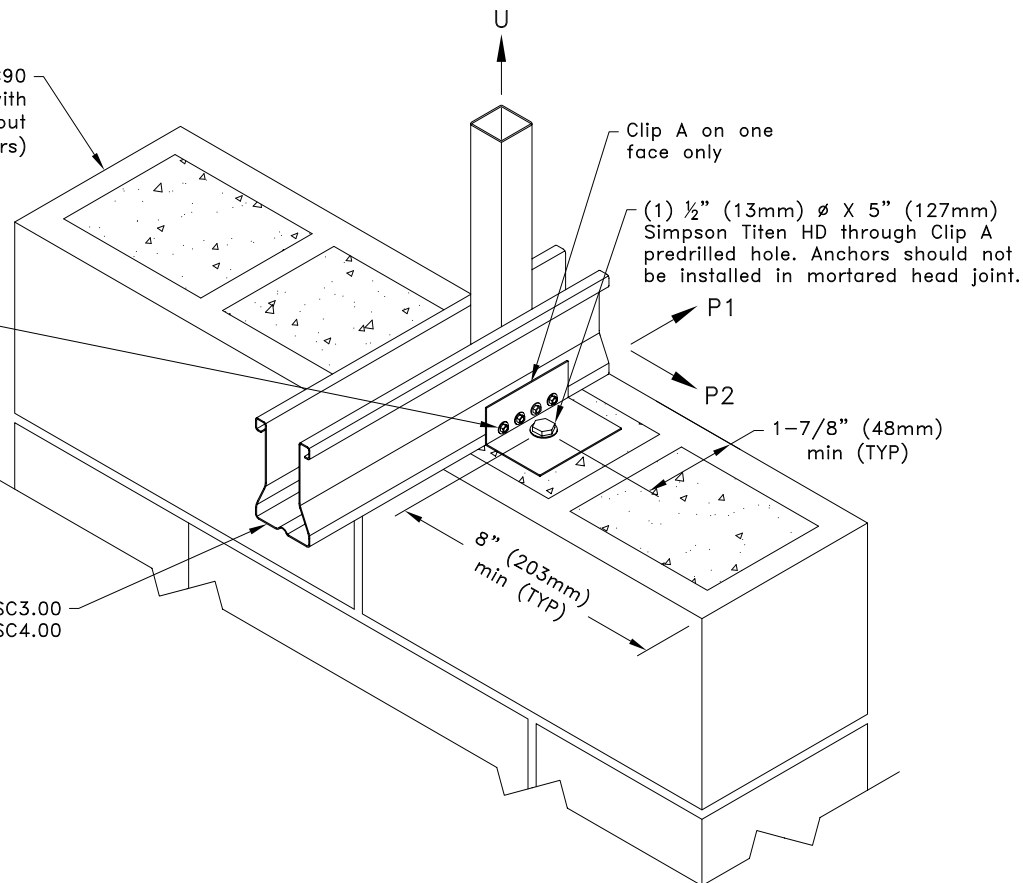
or

12 ga ASTM A653 SS Grade 33 G60  
 Bare metal thickness,  $t = 0.0966"$  (2.45mm)

8" (203mm) ASTM C90  
 Fully grouted CMU wall with  
 2000 psi (13.79 MPa) grout  
 (Design by others)

(4) #10SDS

TSC2.75, TSC3.00  
 or TSC4.00



**General Notes:**

1. SDS = Self-Drilling Tapping Screw
2. #10SDS screw spacing, end distance, and edge distance is 9/16" (14mm) minimum.
3. This detail is for 1-Ply trusses only, for multi-ply trusses contact a TrusSteel engineer.
4. Special inspection is required. For proper installation of Titen HD fasteners, grout requirements, and requirements of special inspection, refer to ICC ESR-1056 (March, 2018).
5. It is the responsibility of the building designer to verify that the structural support members are designed for all applicable loads including (but not limited to) the loads given on this detail.
6. Cold-Formed Steel Calculations are per the AISI 2016 "North American Specifications for the Design of Cold-Formed Steel Structural Members" (S100-16).



www.TrusSteel.com

Florida: 6750 Forum Drive, Suite 305 / Orlando, FL 32821 / (800) 755-6001  
 Missouri: 13723 Riverport Drive, Suite 200 / Maryland Heights, MO 63043 / (800) 326-4102

**Uplift Attachment To  
 Grout-Filled CMU Bearing**

Alpine, a division of ITW Building Components Group, Inc. shall not be responsible for any performance failure in a connection due to a deviation from this detail. Any variation from this detail shall be approved in advance by Alpine, a division of ITW Building Components Group, Inc.

**Standard Detail:**

TS031A

**Date:**

10/11/18

**TrusSteel Detail Category:**

Truss-To-Bearing: Concrete