**Titen HD®** Design Information — Masonry

Titen HD Allowable Tensi and Normal-Weight CMU

sion Loads IU Chair Bl	for 8" Ligh locks Filled	tweight, Me with Norma	dium-Weig I-Weight C	jht oncre	te		IBC	<b>1</b>	*
						LOBBILO			

Dia. (in.)	iń.	in.			8" Concrete-Filled CMU Chair Block Allowable Tension Loads Based on CMU Strength			
	(mm)	(mm)	in. (mm)	Ultimate lb. (kN)	Allowable lb. (kN)			
	<b>2</b> % (60)	13/4 (44)	9½ (241)	<b>3,175</b> (14.1)	(2.8)			
3/8	<b>3</b> % (86)	13/4 (44)	13½ (343)	<b>5,175</b> (23.0)	<b>1,035</b> (4.6)			
	<b>5</b> (127)	<b>21⁄4</b> (57)	<b>20</b> (508)	<b>10,584</b> (47.1)	<b>2,115</b> (9.4)			
1/2	<b>8</b> (203)	<b>21/4</b> (57)	<b>32</b> (813)	<b>13,722</b> (61.0)	<b>2,754</b> (12.2)			
	<b>10</b> (254)	<b>21/4</b> (57)	<b>40</b> (1016)	<b>16,630</b> (74.0)	<b>3,325</b> (14.8)			
5/8	5½ (140)	13/4 (44)	<b>22</b> (559)	<b>9,025</b> (40.1)	<b>1,805</b> (8.1)			
	1/2 5/8	(60)  3% (86)  5 (127)  8 (203)  10 (254)  5%  5½ (140)	(60) (44)  3% (86) (44)  5 (214) (203) (57)  10 (254) (57)  56 51/2 11/4	(60) (44) (241)  3% (86) (44) (343)  5 (214) (20) (127) (57) (508)  8 (214) (57) (813)  10 (254) (57) (1016)  5% (140) (44) (259)	(60) (44) (241) (111)  3			

Spacing = 24 in

**lechanical** 

- The tabulated allowable loads are based on a safety factor of 5.0.
   Values are for 8'-wide concrete masonry units (CMU) filled with concrete, with minimum compressive strength of 2,500 psi and poured monolithically with the floor slab.
   Center #5 rebar in CMU cell and concrete slab as shown in the flustration below.

2x8 spacing: 12 in Titen HD (see table)Length as needed.Spacing: 24 in Straps and Designed to provide seismic and wind ties for trusses or joists, this versatile line may be used for general tie purposes, strongback attachments, and as all-purpose ties where one member crosses another.

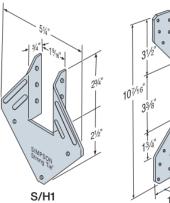
Material: See table

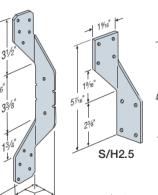
Finish: Galvanized (G90). Available with ZMAX® coating; see Corrosion Information, pp. 17-19.

Installation: • Use all specified fasteners

- The S/H1 can be installed with flanges facing outwards (reverse of illustration 1) when installed inside a wall for truss applications
- Hurricane ties do not replace solid blocking
- S/H2.5, S/H3 and H6 ties are only shipped in equal quantities of rights and lefts

Codes: See p. 11 for Code Reference Key Chart

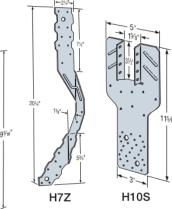




Model	Connector Material	Fasteners <sup>5</sup>			Allo	Code		
No.	Thickness mil (ga.)	To Rafters	To Top Track	To Stud	Uplift	Lateral		Ref.
		/Truss				F <sub>1</sub>	F <sub>2</sub>	
S/H1	43 (18)	(3) #10	(2) #10	(1) #10	305	100	115	IBC, FL, LA
H2A	43 (18)	(5) #10	(1) #10	(5) #10	450	90	100	
S/H2.5	43 (18)	(4) #10	_	(4) #10	390	90	125	
S/H3	43 (18)	(2) #10	(2) #10	_	375	90	125	
H6	54 (16)	_	(8) #10	(8) #10	950	_	_	_
H7Z	54 (16)	(4) #10	(2) #10	(8) #10	985	_	_	
H10S4	43 (18)	(8) #10	_	(8) #10	930³	_	_	

These products are available with additional corrosion protection. Additional products on this page may also be available with this option. Check with Simpson Strong-Tie for details.

1. Loads are based on attachment of cold-formed steel members having a minimum thickness



Architect: OpeningDesign

316 W. Washington Ave. | Suite 675 | Madison, WI 53703

ryan@openingdesign.com | 773.425.6456

	Date	Description
	05.14.2020	FRAMING AT ELEVATOR ROOF
=S		
$\sqrt{ a }$		
1		

3