

MAXIMUM CAPACITY (LBS) - 1-1/2" Wood Bearing									
				USP LL915 #9 x 1-1/2"		USP WS15 1/4" x 1-1/2"		Wood Screw #9 x 1-1/2"	
	Wood Screws HD-WD	#10 SDS HD-C	#10 SDS C-W	UPLIFT P1 (LBS)	HORIZ <sup>3</sup> P2 (LBS)	UPLIFT P1 (LBS)	HORIZ <sup>3</sup> P2 (LBS)	UPLIFT P1 (LBS)	HORIZ <sup>3</sup> P2 (LBS)
423HD16	2	2	4	385	260	650	435	400	215
	3 <sup>1</sup>	2	4	580	390	N/A	N/A	600	320
423HD14	2	3	4	--	--	655	435	--	--
426HD14	4	3	4	770	435	1125	435	800	430
	6 <sup>2</sup>	4	6	1160	435	1685	435	1200	435
	6 <sup>2</sup>	4	8	--	--	1970	435	--	--

<sup>1</sup> Locate 3rd screw between bend and anchor hole.  
Minimum clips shown. HD's with greater mil thickness  
and matching clip size may be substituted.

<sup>2</sup> Min bearing width = 6-5/8"

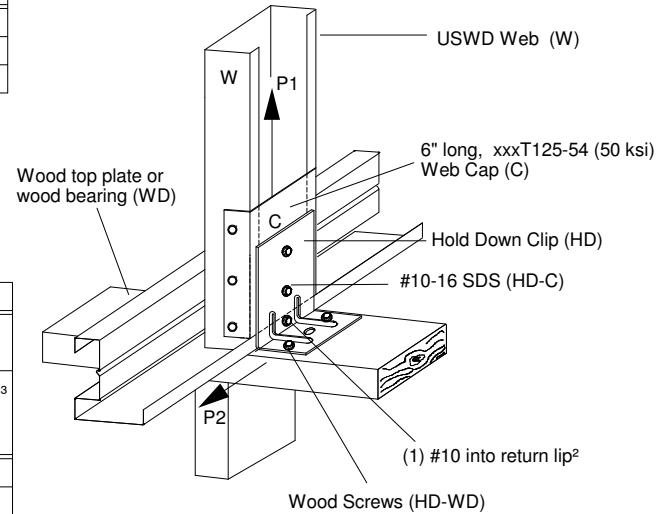
<sup>3</sup> (1) additional #10 sds into retron lip required

MAXIMUM CAPACITY (LBS) - 3" Wood Bearing									
				USP LL930 #9 x 3"		USP WS3 1/4" x 3"		Wood Screw #9 x 3"	
	Wood Screws HD-WD	#10 SDS HD-C	#10 SDS C-W	UPLIFT P1 (LBS)	HORIZ <sup>3</sup> P2 (LBS)	UPLIFT P1 (LBS)	HORIZ <sup>3</sup> P2 (LBS)	UPLIFT P1 (LBS)	HORIZ <sup>3</sup> P2 (LBS)
423HD16	2	2	4	470	260	650	435	650	215
	3 <sup>1</sup>	2	4	650	390	N/A	N/A	--	--
423HD14	2	3	4	--	--	1060	435	800	215
	3 <sup>1</sup>	3	4	700	390	N/A	N/A	1060	320
423HD12	2	3	6	--	--	1275	435	--	--
	3 <sup>1</sup>	3	6	--	--	N/A	N/A	1200	320
426HD14	4	3	6	935	435	1485	435	1485	430
	4	5	8	--	--	1995	435	1600	430
	6 <sup>2</sup>	5	8	1405	435	2105	435	2105	435
	7 <sup>1 2</sup>	5	8	1640	435	N/A	N/A	--	--
426HD12	4	6	10	--	--	2550	435	--	--
	6 <sup>2</sup>	6	12	--	--	2955	435	2400	435

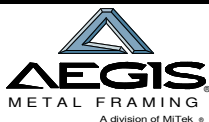
<sup>1</sup> Locate 3rd screw between bend and anchor hole.  
Minimum clips shown. HD's with greater mil thickness  
and matching clip size may be substituted.

<sup>2</sup> Min bearing width = 6-5/8"

<sup>3</sup> (1) additional #10 sds into retron lip required



- 1) Min SDS spacing & edge distance = 9/16".
- 2) Edge distances, end distances, and spacing of wood screws shall be sufficient to prevent splitting of the wood. Min. screw spacing = 3/4"
- 3) Wood bearing to be G = 0.5 minimum.
- 4) As specified by NDS, a wind load duration factor Cd = 1.6 has been applied to the wood screw allowable pullout capacity. No further increase permitted.
- 5) Place screws in line w/holes in the HD or closer to the bend in clip.
- 6) HD product specified is manufactured by Aegis Metal Framing. Any substitution is prohibited.
- 7) When this connection detail is applied to both plies of a 2-ply truss, the capacities double.
- 8) This detail does not indicate or imply that the depicted bearing is structurally adequate for the loads shown. Design of bearing is req'd.
- 9) Max. Reactions shown are non-concurrent.
- 10) Minimum bearing width = 5-1/2" (U.N.O.)
- 11) Holes in HD to be pre-drilled to fastener specifications to prevent stripping of wood screws.
- 12) Screw must comply with ANSI/ASME Standard B18.6.1-1981.



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## USD TRUSS TO WOOD BEARING 423HD / 426HD

DETAIL NO.

# D-WD-1

CATEGORY

STANDARD DETAILS

DATE

5/2013