

## RIGID CLIP CONNECTOR WITH HDW WASHER

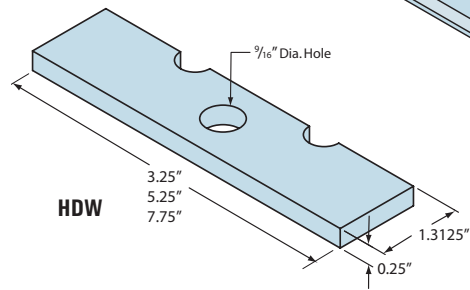
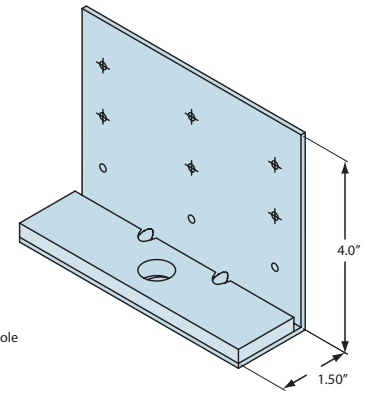
Rigid Clip Connectors (RCC) are used to rigidly attach the bottom of a parapet stud to the structure, or where high tension or rotational restraint is required.

**MATERIAL:** 1/4" Carbon Structural Steel Hot Rolled Heavy Duty Washer (HDW), 36 ksi

**FINISH:** HDW washer is painted gray for corrosion resistance.

**INSTALLATION:**

- Attach long leg of Rigid Clip Connector to web of stud with #10–16 screws through pre-punched holes.
- Attach short leg of Rigid Clip Connector to structure with a 1/2" anchor bolt per Project Engineer's design.



**Allowable Strength of RCC with HDW (Washer) in Moment (M1)**

CFS Member	Allowable Strength (in-kips)						Flexibility (Rad/in-lb x10 <sup>6</sup> )	
	Thickness (mil/ga)	F <sub>y</sub> (ksi)	RCC358		RCC600		RCC800	
			No. of Screws 3	No. of Screws 6	No. of Screws 3	No. of Screws 6	No. of Screws 5	No. of Screws 10
33 (20)	33	0.99	1.94	2.15	2.35	3.37	3.82	
		28.4	8.07	4.06	4.06	6.39	1.70	
43 (18)	33	0.99	1.94	2.15	2.35	3.37	3.82	
		28.4	8.07	4.06	4.06	6.39	1.70	
54 (16)	50	2.10	3.99	4.38	4.69	8.06	8.03	
		28.4	8.07	4.06	4.06	6.39	1.70	
68 (14)	50	2.10	3.99	4.38	4.69	8.06	8.03	
		28.4	8.07	4.06	4.06	6.39	1.70	
97 (12)	50	2.10	3.99	4.38	4.69	8.06	8.03	
		28.4	8.07	4.06	4.06	6.39	1.70	

**Heavy Duty Washer (HDW)**

Model No.	Stud Size	Dimensions (in.)	Box Quantity
HDW358	3-5/8"	1/4 x 1-5/16 x 3-1/4	50
HDW600	6"	1/4 x 1-5/16 x 5-1/4	50
HDW800	8"	1/4 x 1-5/16 x 7-3/4	25

**Allowable Strength with HDW (Washer) in Shear (F1)**

CFS Member	Allowable Strength (lbs)							
	Thickness (mils/Ga)	F <sub>y</sub> (ksi)	RCC358		RCC600		RCC800	
			No. of Screws 3	No. of Screws 6	No. of Screws 3	No. of Screws 6	No. of Screws 5	No. of Screws 10
33 (20)	33	480	480	660	760	980	980	
43 (18)	33	480	480	660	760	980	980	
54 (16)	50	1,070	1,100	1,450	1,670	2,160	2,160	
68 (14)	50	1,070	1,100	1,450	1,670	2,160	2,160	
97 (12)	50	1,070	1,100	1,450	1,670	2,160	2,160	

**Allowable Strength with HDW (Washer) in Tension/Compression (F2)**

CFS Member	Allowable Strength (lbs)							
	Thickness (mils/Ga)	F <sub>y</sub> (ksi)	RCC358		RCC600		RCC800	
			No. of Screws 3	No. of Screws 6	No. of Screws 3	No. of Screws 6	No. of Screws 5	No. of Screws 10
33 (20)	33	530	1,060	530	1,060	884	1,767	
43 (18)	33	789	1,578	789	1,578	1,315	2,630	
54 (16)	50	1,602	3,205	1,602	2,219	2,671	3,244	
68 (14)	50	1,640	3,244	1,640	3,205	2,733	3,244	
97 (12)	50	1,640	3,244	1,640	3,244	2,733	3,244	

**Notes:**

1. Tabulated values are based on #10-16 screws with ultimate shear capacity of 1,600 lbs per screw.
2. Allowable loads have not been increased for wind or seismic.
3. Tabulated loads are based on 1/2" diameter bolt with 1/2" Type A plain washer with a nominal outside diameter of 1.062" & nominal thickness of 0.095".
4. It is the responsibility of the design professional to design the connection of the RCC to the supporting structure.
5. Use linear interaction for combination of F<sub>1</sub>, F<sub>2</sub>, and M<sub>1</sub>.
6. The 1/4" thick Heavy Duty Washer (HDW) meets ASTM A36 Standard Specification for Carbon Structural Steel and is made from hot rolled flat bar and painted gray for corrosion resistance.

