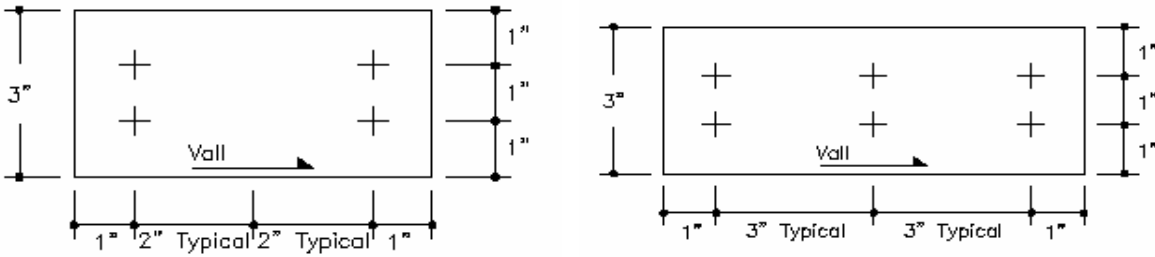


### 3" x 3" Clip Angle

$V_{all} = C_c * P_{as}$       where:       $C_c$  = Connection Coefficient  
 $P_{as}$  = Allowable Shear Load of Connector  
 $V_{all}$  = Allowable shear Load for Clip Angle

\*Assume the minimum thickness of the two materials govern.



### Screw Failure, Sheet Bearing, and Screw Shear out of Material

Connector Screw	Material Thickness (mills)	Yeild Strength $F_y$ (ksi)	Pas (lbs)	3" Long	4" Long	6" Long	8" Long	10" Long
				$C_c = 1.37$	$C_c = 2.00$	$C_c = 2.92$	$C_c = 4.51$	$C_c = 4.99$
#10-18 HWH	33	33	177	242	353	515	796	882
	43	33	263	361	526	767	1185	1313
	54	33	370	507	740	1078	1666	1846
		50	467	640	933	1361	2103	2330
	68	33	467	640	933	1361	2103	2330
		50	467	640	933	1361	2103	2330
97	33	467	640	933	1361	2103	2330	
	50	467	640	933	1361	2103	2330	

Connector Screw	Material Thickness (mills)	Yeild Strength $F_y$ (ksi)	Pas (lbs)	3" Long	4" Long	6" Long	8" Long	10" Long
				$C_c = 1.37$	$C_c = 2.00$	$C_c = 2.92$	$C_c = 4.51$	$C_c = 4.99$
#12-14 HWH	33	33	186	255	372	542	837	928
	43	33	277	379	553	806	1246	1381
	54	33	389	533	778	1133	1752	1941
		50	562	770	1123	1637	2530	2804
	68	33	550	754	1099	1602	2477	2744
		50	625	857	1250	1822	2816	3120
97	33	625	857	1250	1822	2816	3120	
	50	625	857	1250	1822	2816	3120	
118	33	625	857	1250	1822	2816	3120	
	50	625	857	1250	1822	2816	3120	

Connector Screw	Material Thickness (mills)	Yeild Strength $F_y$ (ksi)	Pas (lbs)	3" Long	4" Long	6" Long	8" Long	10" Long
				$C_c = 1.37$	$C_c = 2.00$	$C_c = 2.92$	$C_c = 4.51$	$C_c = 4.99$
#1/4-14 HWH	33	33	199	273	397	579	895	992
	43	33	296	406	591	862	1332	1476
	54	33	416	570	831	1212	1873	2075
		50	600	824	1201	1750	2705	2997
	68	33	588	806	1175	1713	2648	2934
		50	849	1164	1698	2475	3825	4238
97	33	863	1184	1727	2517	3890	4310	
	50	863	1184	1727	2517	3890	4310	
118	33	863	1184	1727	2517	3890	4310	
	50	863	1184	1727	2517	3890	4310	