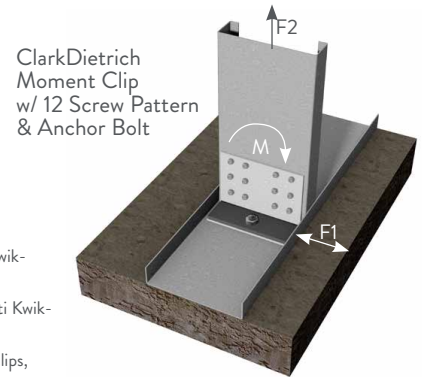
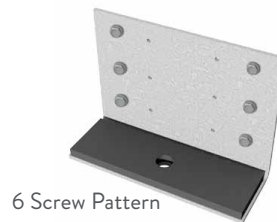
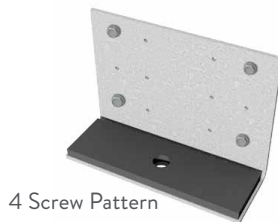


MOMENT CLIPS ALLOWABLE LOADS

Product code	Stud member thickness	Stud Fy (ksi)	F1 (Shear), (lbs)			F2 (Tension), (lbs)			M (Moment), (in-lbs)			Rotational Stiffness for Wind Deflection (in-lbs/radian)
			Number of #12 screws to stud						1/2" Dia. Anchor to Structure			
			4	6	12	4	6	12	4	6	12	
MC683 2" x 4" x 3-1/2" 68mil (14ga)	33mil (20ga)	33	372	508	840	754	1131	2261 ¹	1401	1784 ³	2462 ³	133,000
	43mil (18ga)	33	554	756	1250	1122	1683 ³	2736 ²	2084 ³	2581 ³	2581 ³	
	54mil (16ga)	50	1126	1536	2086 ³	2278 ³	2736 ²	2736 ²	2743 ³	2743 ³	2743 ³	
	68mil (14ga)	50	1535	2086 ³	2086 ³	2736 ²	2736 ²	2736 ²	2756 ³	2756 ³	2756 ³	
	97mil (12ga)	50	1535	2086 ³	2086 ³	2736 ²	2736 ²	2736 ²	2756 ³	2756 ³	2756 ³	
MC973 2" x 4" x 3-1/2" 97mil (12ga)	33mil (20ga)	33	372	508	840	754	1131	2261 ¹	1401	1784 ³	2560 ³	140,100
	43mil (18ga)	33	554	756	1250	1122	1683 ³	3365 ²	2084 ³	2655 ³	2862 ³	
	54mil (16ga)	50	1126	1536	2538 ³	2278 ³	3417 ²	4065 ²	2862 ³	2862 ³	2862 ³	
	68mil (14ga)	50	1535	2094 ⁴	2975 ⁵	3107 ²	4181 ²	4181 ²	2862 ³	2862 ³	2862 ³	
	97mil (12ga)	50	1535	2094 ⁴	2975 ⁵	3107 ²	4181 ²	4181 ²	2862 ³	2862 ³	2862 ³	
MC103P 2" x 4" x 3-1/2" 118mil (10ga)	33mil (20ga)	33	372	508	840	754	1131	2261 ¹	1401	1784 ³	2609 ³	143,900
	43mil (18ga)	33	554	756	1250	1122	1683 ³	3365 ²	2084 ³	2655 ³	2945 ³	
	54mil (16ga)	50	1126	1536	2538 ³	2278 ³	3417 ²	3828 ²	2945 ³	2945 ³	2945 ³	
	68mil (14ga)	50	1535	2094 ⁴	3462 ⁴	3107 ²	3828 ²	3828 ²	2945 ³	2945 ³	2945 ³	
	97mil (12ga)	50	1535	2094 ⁴	3462 ⁴	3107 ²	3828 ²	3828 ²	2945 ³	2945 ³	2945 ³	
MC685 2" x 4" x 5-1/2" 68mil (14ga)	33mil (20ga)	33	441	630	1029	754	1131	2261 ¹	1778	2417	3396 ³	252,000
	43mil (18ga)	33	656	937	1531	1122	1683 ³	2736 ²	2646	3597 ³	4993 ³	
	54mil (16ga)	50	1333	1903 ³	2086 ³	2278 ³	2736 ²	2736 ²	5307 ³	5307 ³	5307 ³	
	68mil (14ga)	50	1818 ¹	2086 ³	2086 ³	2736 ²	2736 ²	2736 ²	5363 ³	5363 ³	5363 ³	
	97mil (12ga)	50	1818 ¹	2086 ³	2086 ³	2736 ²	2736 ²	2736 ²	5363 ³	5363 ³	5363 ³	
MC975 2" x 4" x 5-1/2" 97mil (12ga)	33mil (20ga)	33	441	630	1029	754	1131	2261 ¹	1778	2417	3396 ³	274,400
	43mil (18ga)	33	656	937	1531	1122	1683 ³	3365 ²	2646	3597 ³	5025 ³	
	54mil (16ga)	50	1333	1903 ³	2975 ⁵	2278 ³	3417 ²	4181 ²	5373 ³	5980 ³	5980 ³	
	68mil (14ga)	50	1818 ¹	2595 ⁵	2975 ⁵	3107 ²	4181 ²	4181 ²	5980 ³	5980 ³	5980 ³	
	97mil (12ga)	50	1818 ¹	2595 ⁵	2975 ⁵	3107 ²	4181 ²	4181 ²	5980 ³	5980 ³	5980 ³	
MC105P 2" x 4" x 5-1/2" 118mil (10ga)	33mil (20ga)	33	441	630	1029	754	1131	2261 ¹	1778	2417	3396 ³	288,700
	43mil (18ga)	33	656	937	1531	1122	1683 ³	3365 ²	2646	3597 ³	5053 ³	
	54mil (16ga)	50	1333	1903 ³	3109 ³	2278 ³	3417 ²	4236 ²	5373 ³	6133 ³	6133 ³	
	68mil (14ga)	50	1818 ¹	2595 ⁵	3633 ³	3107 ²	4236 ²	4236 ²	6133 ³	6133 ³	6133 ³	
	97mil (12ga)	50	1818 ¹	2595 ⁵	3633 ³	3107 ²	4236 ²	4236 ²	6133 ³	6133 ³	6133 ³	
MC687 2" x 4" x 7-1/2" 68mil (14ga)	43mil (18ga)	33	791	1164	1928 ³	1122	1683 ³	2736 ²	3646	5199 ³	6903 ³	387,600
	54mil (16ga)	50	1606	2086 ³	2086 ³	2278 ³	2736 ²	2736 ²	7403 ³	7656 ³	7656 ³	
	68mil (14ga)	50	2086 ³	2086 ³	2086 ³	2736 ²	2736 ²	2736 ²	8186 ³	8186 ³	8186 ³	
	97mil (12ga)	50	2086 ³	2086 ³	2086 ³	2736 ²	2736 ²	2736 ²	8186 ³	8186 ³	8186 ³	
	43mil (18ga)	33	791	1164	1928 ³	1122	1683 ³	3365 ²	3646	5199 ³	6903 ³	
MC977 2" x 4" x 7-1/2" 97mil (12ga)	43mil (18ga)	33	791	1164	1928 ³	1122	1683 ³	3365 ²	3646	5199 ³	6903 ³	449,000
	54mil (16ga)	50	1606	2363 ³	2975 ⁵	2278 ³	3417 ²	3875 ²	7403 ³	8979 ³	8979 ³	
	68mil (14ga)	50	2190 ¹	2975 ⁵	2975 ⁵	3107 ²	3875 ²	3875 ²	8979 ³	8979 ³	8979 ³	
	97mil (12ga)	50	2190 ¹	2975 ⁵	2975 ⁵	3107 ²	3875 ²	3875 ²	8979 ³	8979 ³	8979 ³	
	43mil (18ga)	33	791	1164	1928 ³	1122	1683 ³	3365 ²	3646	5199 ³	6903 ³	
MC107P 2" x 4" x 7-1/2" 118mil (10ga)	43mil (18ga)	33	791	1164	1928 ³	1122	1683 ³	3365 ²	3646	5199 ³	6903 ³	451,000
	54mil (16ga)	50	1606	2363 ³	3633 ³	2278 ³	3417 ²	3835 ²	7403 ³	9180 ³	9180 ³	
	68mil (14ga)	50	2190 ¹	3223 ³	3633 ³	3107 ²	4236 ²	4236 ²	9282 ³	9282 ³	9282 ³	
	97mil (12ga)	50	2190 ¹	3223 ³	3633 ³	3107 ²	4236 ²	4236 ²	9282 ³	9282 ³	9282 ³	



Notes:

- Cells marked with an "1" in F1 (Shear) column indicates that the shear capacity is limited to 1628 lbs when using 1/2" x 2" Hilti Kwik-Bolts into 3000 psi concrete.
- Cells marked with a "2" in F2 (Tension) column indicates that the tension capacity is limited to 1509 lbs when using 1/2" x 2" Hilti Kwik-Bolts into 3000 psi concrete.
- Cells marked with a "3" in the M (Moment) column indicates that the moment capacity is limited to 1761 in-lbs for 3-1/2" long clips, 2767 in-lbs for 5-1/2" long clips, and 3773 in-lbs for 7-1/2" long clips when using 1/2" x 2" Hilti Kwik-Bolts into 3000 psi concrete.
- Capacities listed in the table/notes assume that no load reductions are required for spacing or edge distance of Kwik-Bolts.
- Capacities listed in the table represent the capacity of the clip and the screws to the stud. Capacities listed in notes 1-3 are limits if the specified connector to the structure is used. Other 1/2" dia. anchors may be used to achieve the full clip capacity but must be designed separately.
- Moment capacities listed as Max. load/Factor of Safety. Loads must be limited by serviceability load taken as stiffness times the serviceability limit in radians.
- Stiffness is the max allowable clip moment divided by the clip rotation measured at the max allowable clip moment.
- No stud-to-track connection is required. Higher loads can be achieved when stud-to-track is connected.
- Use a linear interaction equation for connections involving any combination of F1, F2, and M.
- Allowable loads have not been increased for wind, seismic, or other factors.
- Torsional effects are considered on screw group for F1 & F2 (Shear & Tension) allowable loads.
- Hilti is a registered trademark of Hilti Aktiengesellschaft Corporation.
- It is the responsibility of the designer to properly detail connections on the contract drawings.

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