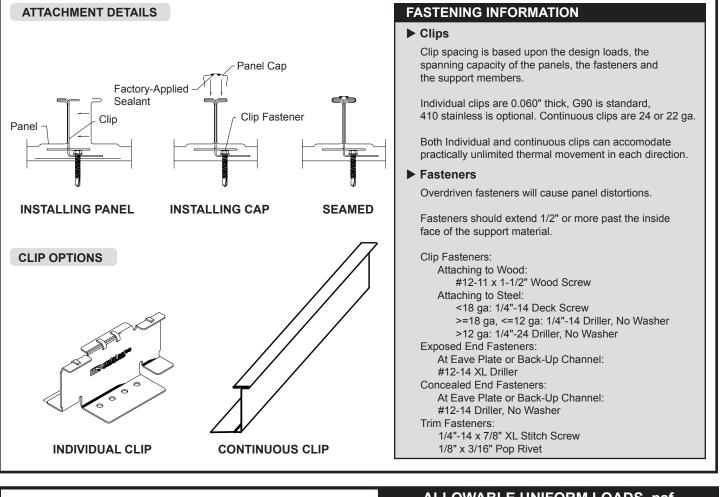


ICC Evaluation Report - ESR-3743

2-3/8" T-ARMOR



STEEL SECTION PROPERTIES

ALLOWABLE UNIFORM LOADS, psf (3 or More Equal Spans)

											· ·				-	,			
Ga	Width in	Yield ksi	Weight psf	Top In Compression		Bottom In Compression		Inward Load					Outward Load						
				lxx in⁴/ft	Sxx in ³ /ft	lxx in⁴/ft	Sxx in ³ /ft												
	ļ			III /IL	111711	111710	1117/1	2'	2.5'	3'	3.5'	4'	5'	2'	2.5'	3'	3.5'	4'	5'
24	12	50	1.50	0.3398	0.2053	0.2078	0.1758	400	400	362	280	222	149	119	108	96	85	73	50
22	12	50	1.97	0.4640	0.2806	0.3020	0.2466	400	400	400	400	326	216	119	108	98	87	76	55
24	16	50	1.35	0.2828	0.1601	0.1260	0.0944	400	295	215	163	127	84	88	80	73	66	59	44
22	16	50	1.78	0.3810	0.2157	0.1800	0.1397	400	400	328	247	192	126	109	100	91	82	73	55
24	18	50	1.30	0.2567	0.1419	0.1113	0.0836	377	261	190	144	113	74	68	62	56	50	44	32
22	18	50	1.71	0.3507	0.1932	0.1600	0.1242	400	400	292	220	171	112	87	80	74	67	61	47

1. Theoretical section properties have been calculated per AISI 2016 'North American Specification for the Design of Cold-Formed Steel Structural Members'. Ixx and Sxx are effective section properties for deflection and bending.

2. Allowable load is calculated in accordance with AISI 2016 specifications considering bending, shear, combined bending and shear and deflection. Allowable load considers the 3 or more equal spans condition. Allowable load does not address web crippling, fasteners, support material or load testing. Panel weight is not considered.

3. Deflection consideration is limited by a maximum deflection ratio of L/180 of span.

4. Allowable loads do not include a 1/3 stress increase for wind.

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