

# **3" T-ARMOR**





#### STEEL SECTION PROPERTIES

#### ALLOWABLE UNIFORM LOADS, ps (3 or More Equal Spans)

Ga	Width in	<b>Yield</b> ksi	<b>Weight</b> psf	Top In Compression		Bottom In Compression		Inward Load						Outward Load						
				<b>lxx</b> in⁴/ft	<b>Sxx</b> in³/ft	<b>lxx</b> in⁴/ft	<b>Sxx</b> in³/ft													
								2'	2.5'	3'	3.5'	4'	5'	2'	2.5'	3'	3.5'	4'	5'	
24	12	50	1.60	0.5756	0.2723	0.3676	0.2442	400	400	379	305	251	178	51	47	44	41	37	31	
22	12	50	2.10	0.7900	0.3776	0.5290	0.3434	400	400	400	400	400	284	51	47	44	41	37	31	
24	16	50	1.43	0.4665	0.2063	0.2235	0.1328	400	323	247	194	157	107	51	47	44	41	37	31	
22	16	50	1.87	0.6428	0.2869	0.3195	0.1964	400	400	400	325	256	170	51	47	44	41	37	31	
24	18	50	1.37	0.4260	0.1839	0.1987	0.1177	389	287	219	173	139	95	51	47	44	41	37	31	
22	18	50	1.80	0.5887	0.2560	0.2840	0.1743	400	400	376	288	228	151	51	47	44	41	37	31	

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.

## **TTS Metal Sales**

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