

Section Properties

ULTRA-SPAN® BRACING PRODUCTS SECTION PROPERTIES																			
MEMBER DESIGNATION	DESIGN THICKNESS (in)	YIELD (ksi)	AREA (in ²)	WEIGHT (lb/ft)	EFFECTIVE SECTION PROPERTIES					GROSS SECTION PROPERTIES					TORSIONAL SECTION PROPERTIES				
					A _e (in ²)	I _{xe} (in ⁴)	S _{xe} (in ³)	P _a (lbs)		I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	Jx1000 (in ⁴)	C _w (in ⁶)	X _o (in)	R _o (in)	β
								kL = 2 ft	kL = 4 ft										
087USA025-28	0.0295	33	0.0835	0.2840	0.0835	0.0072	0.0137	624	335	0.0072	0.0137	0.2940	0.0150	0.4233	0.0242	0.0006	0.0000	0.6493	1.0000
087USA025-46	0.0484	50	0.1339	0.4554	0.1339	0.1120	0.0212	1454	689	0.0112	0.0212	0.2891	0.0229	0.1436	0.1046	0.0009	0.0000	0.6310	1.0000
087USA025-57	0.0600	50	0.1638	0.5570	0.1638	0.0133	0.0252	2017	821	0.0133	0.0252	0.2854	0.0272	0.4078	0.1965	0.0010	0.0000	0.6203	1.0000
087F125-28	0.0295	33	0.1120	0.3808	0.1120	0.0135	0.0334	568	257	0.0135	0.0334	0.3468	0.0592	0.7268	0.0325	0.0019	0.0000	1.0546	1.0000
087F125-46	0.0484	50	0.1803	0.6130	0.1803	0.0209	0.0515	1329	823	0.0209	0.0515	0.3405	0.0926	0.7167	0.1408	0.0028	0.0000	1.0372	1.0000
150F125-28	0.0295	33	0.1500	0.5102	0.1500	0.0485	0.0683	821	276	0.0485	0.0683	0.5687	0.0953	0.7970	0.0435	0.0072	0.0000	1.5504	1.0000
150F125-46	0.0484	50	0.2427	0.8253	0.2427	0.0767	0.1077	1558	699	0.0767	0.1077	0.5622	0.1503	0.7870	0.1102	0.0110	0.0000	1.5328	1.0000
150F125-57	0.0600	50	0.2983	1.0142	0.2983	0.0929	0.1303	2174	1123	0.0929	0.1303	0.5583	0.1819	0.7808	0.3580	0.0131	0.0000	1.5219	1.0000

1. Section Property calculations are based on the North American Specification for the Design of Cold-Formed Steel Structural Members, AISI S100-2007 based on the Allowable Strength Design method.