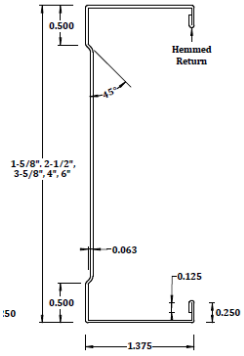
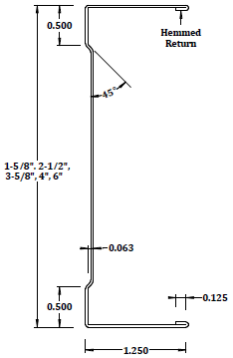
PrimeStud 20



PrimeStud Stud = xxxPS137-19



PrimeStud Track = xxxPT125-19

Stud Properties

PrimeStud Stud Properties Table

	DESCRIPTION				GROSS SECTION PROPERTIES						EFFECTIVE PROPERTIES					TORSIONAL PROPERTIES					Lu (in)
	Member Designation	Minimum Thickness (inch)	Design Thickness (inch)	Min. Yield Stress (ksi)	Weight (lb/ft)	Area (in^2)	I_x (in^4)	r_x (in)	I_y (in^4)	r_y (in)	I_{xe} (in^4)	S_{xe} (in^3)	M_a (k-in) Fully Braced	M_a (k-in) Braced @ 48" o.c.	V_a (lbs)	X_o (in)	J x 10^3 (in^4)	C_w (in^6)	r_o (in)	β	
19 MIL STUDS	250PS137-19	0.018	0.0189	41	0.36	0.110	0.116	1.024	0.029	0.510	0.104	0.077	1.89	1.66	436	-1.105	0.01313	0.040	1.591	0.517	33.3
	362PS137-19	0.018	0.0189	41	0.43	0.132	0.271	1.435	0.032	0.493	0.240	0.123	3.01	2.67	288	-0.957	0.01566	0.087	1.794	0.715	35.1
	400PS137-19	0.018	0.0189	41	0.45	0.139	0.341	1.568	0.033	0.486	0.301	0.138	3.39	3.00	245	-0.918	0.01651	0.108	1.881	0.762	34.9
	600PS137-19	0.018	0.0189	41	0.18	0.176	0.889	2.244	0.036	0.453	0.766	0.226	5.54	4.72	135	-0.760	0.02101	0.263	2.413	0.901	30.4

For **SI**: 1 inch = 25.4 mm, 1lb/ft = 14.6 N/m, 1 in-lb = 0.112985 N-m.

Track Properties

PrimeStud Track Properties Table

	DESCRIPTION				GROSS SECTION PROPERTIES						EFFECTIVE PROPERTIES				TORSIONAL PROPERTIES					
	Member Designation	Minimum Thickness (inch)	Design Thickness (inch)	Min. Yield Stress (ksi)	Weight (lb/ft)	Area (in^2)	I_x (in^4)	r_x (in)	I_y (in^4)	r_y (in)	I_{xe} (in^4)	S_{xe} (in^3)	M_{al} (k-in)	M_{ad} (k-in)	X_o (in)	J x 10^3 (in^4)	C_w (in^6)	r_o (in)	β	
19 MIL TRACKS	250PT125-19	0.018	0.0189	41	0.32	0.098	0.101	1.018	0.017	0.421	0.091	0.068	-	-	-0.830	0.01164	0.020	1.591	0.517	
	362PT125-19	0.018	0.0189	41	0.39	0.119	0.238	1.413	0.019	0.400	0.214	0.111	-	-	-0.708	0.01417	0.047	1.794	0.715	
	400PT125-19	0.018	0.0189	41	0.41	0.126	0.299	1.540	0.019	0.393	0.268	0.124	-	-	-0.676	0.01502	0.059	1.881	0.762	
	600PT125-19	0.018	0.0189	41	0.53	0.167	0.789	2.194	0.021	0.359	0.674	0.199	-	-	-0.550	0.01952	0.149	2.413	0.901	

For **SI**: 1 inch = 25.4 mm, 1lb/ft = 14.6 N/m, 1 in-lb = 0.112985 N-m.

PrimeStud Stud Allowable Span Table - Fully Braced
Non-Composite

	DESCRIPTION					5 PSF			7.5 PSF			10 PSF		
	Member Designation	Minimum Steel Thickness (inch)	Design Steel Thickness (inch)	Min. Yield Stress (ksi)	Spacing O.C. (in.)	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
19 MIL STUDS	250PS137-19	0.018	0.0189	41	12	-	11' 5"	10' 0"	-	10' 0"	8' 9"	-	9' 2"	7' 11"
					16	-	10' 4"	9' 2"	-	9' 2"	7' 11"	-	8' 3"	7' 2"
					24	-	9' 2"	7' 11"	-	7' 11"	6' 11"	-	7' 2"	6' 3"
	362PS137-19	0.018	0.0189	41	12	-	15' 3"	13' 3"	-	13' 3"	11' 7"	-	12' 1"	10' 7"
					16	-	13' 10"	12' 1"	-	12' 1"	10' 7"	-	11' 0"	9' 7"
					24	-	12' 1"	10' 7"	-	10' 7"	9' 2"	-	9' 7"	8' 4"
	400PS137-19	0.018	0.0189	41	12	-	16' 5"	14' 4"	-	14' 4"	12' 6"	-	13' 0"	11' 5"
					16	-	14' 11"	13' 0"	-	13' 0"	11' 5"	-	11' 10"	10' 4"
					24	-	13' 0"	11' 5"	-	11' 5"	9' 11"	-	10' 4"	9' 0"
	600PS137-19	0.018	0.0189	41	12	-	22' 8"	19' 9"	-	19' 9"	17' 3"	-	18' 0"	15' 8"
					16	-	20' 7"	18' 0"	-	18' 0"	15' 8"	-	16' 4"	14' 3"
					24	-	18' 0"	15' 8"	-	15' 8" f	13' 8"	-	13' 7" f	12' 5"