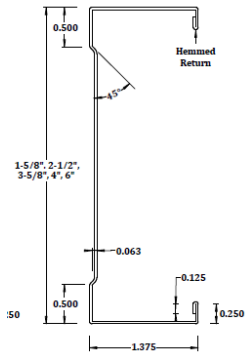
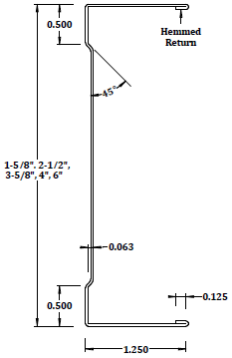
PrimeStud 20plus



PrimeStud Stud = xxxPS137-24



PrimeStud Track = xxxPT125-24

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	
24 MIL STUDS	250PS137-24	0.0236	0.0248	41	0.47	0.144	0.150	1.021	0.037	0.508	0.143	0.110	2.70	2.36	318	-1.102	0.02958	0.052	1.586	0.517	32.4
	362PS137-24	0.0236	0.0248	41	0.56	0.172	0.353	1.432	0.041	0.491	0.331	0.176	4.33	3.79	323	-0.954	0.03530	0.113	1.790	0.716	34.5
	400PS137-24	0.0236	0.0248	41	0.59	0.181	0.444	1.565	0.043	0.484	0.416	0.199	4.89	4.31	303	-0.915	0.03721	0.140	1.876	0.762	34.8
	600PS137-24	0.0236	0.0248	41	0.75	0.231	1.161	2.241	0.047	0.451	1.067	0.358	8.06	6.86	351	-0.757	0.04737	0.341	2.408	0.901	30.8

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
24 MIL TRACKS	250PT125-24	0.0236	0.0248	41	0.42	0.130	0.141	1.044	0.023	0.418	0.135	0.102	2.50	1.81	-0.818	0.02663	0.028	1.391	0.654
	362PT125-24	0.0236	0.0248	41	0.51	0.158	0.326	1.437	0.025	0.397	0.313	0.165	4.05	2.90	-0.700	0.03235	0.064	1.647	0.819
	400PT125-24	0.0236	0.0248	41	0.54	0.167	0.409	1.564	0.025	0.390	0.391	0.186	4.56	3.30	-0.669	0.03426	0.080	1.745	0.853
	600PT125-24	0.0236	0.0248	41	0.70	0.217	1.065	2.216	0.028	0.357	0.978	0.298	7.31	5.76	-0.544	0.04443	0.200	2.310	0.944

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
24 MIL STUDS	250PS137-24	0.0236	0.0248	41	12	15'-6"	12'-3"	10'-9"	13'-6"	10'-9"	9'-4"	12'-4"	9'-9"	8'-6"
					16	14'-1"	11'-2"	9'-9"	12'-4"	9'-9"	8'-6"	11'-2"	8'-10"	7'-9"
					24	12'-4"	9'-9"	8'-6"	10'-9"	8'-6"	7'-5"	9'-5" f	7'-9"	6'-9"
	362PS137-24	0.0236	0.0248	41	12	20'-6"	16'-3"	14'-3"	17'-11"	14'-3"	12'-5"	16'-3"	12'-11"	11'-3"
					16	18'-8"	14'-9"	12'-11"	16'-3"	12'-11"	11'-3"	14'-8" f	11'-9"	10'-3"
					24	16'-3"	12'-11"	11'-3"	13'-10" f	11'-3"	9'-10"	12'-0" f	10'-3"	8'-11"
	400PS137-24	0.0236	0.0248	41	12	22'-2"	17'-7"	15'-4"	19'-4"	15'-4"	13'-5"	17'-7"	13'-11"	12'-2"
					16	20'-1"	15'-11"	13'-11"	17'-7"	13'-11"	12'-2"	15'-7" f	12'-8"	11'-1"
					24	17'-7"	13'-11"	12'-2"	14'-8" f	12'-2"	10'-7"	12'-9" f	11'-1"	9'-8"
	600PS137-24	0.0236	0.0248	41	12	30'-4"	24'-1"	21'-0"	26'-6"	21'-0"	18'-4"	23'-2" f	19'-1"	16'-8"
					16	27'-7"	21'-10"	19'-1"	23'-2" f	19'-1"	16'-8"	20'-0"	17'-4"	15'-2"
					24	23'-2" f	19'-1"	16'-8"	18'-11" f	16'-8"	14'-7"	16'-4" f	16'-4" f	13'-3"