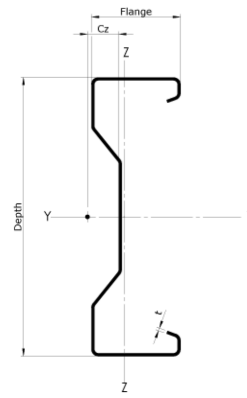


Section Properties



Section properties have been calculated in accordance with Eurocode 3, BS EN 1993-1 3:2006. The top flange of the purlin must have adequate restraint provided by robust steel sheeting (or similar) fixed directly to the top flange.

ProSigma+ S450 (Galvanised) Section Properties

NOMINAL DIMENSIONS					SECTION PROPERTIES							
Section reference	Weight (kg/m)	Depth mm	Flange mm	Thickness mm	Area mm ²	I _{yy} cm ⁴	I _{zz} cm ⁴	I _y cm	I _z cm	C _z cm	My,Rk kNm	
DP-SP145/65/150	3.78	145	65	1.50	481.85	158.36	25.29	5.73	2.29	23.34	8.91	
DP-SP145/65/180	4.53	145	65	1.80	577.69	189.02	29.93	5.72	2.28	23.03	12.99	
DP-SP145/65/200	5.03	145	65	2.00	640.98	209.10	32.91	5.71	2.27	22.82	15.67	
DP-SP175/65/150	4.13	175	65	1.50	525.65	245.74	25.35	6.84	2.20	23.06	11.45	
DP-SP175/65/180	4.95	175	65	1.80	630.49	293.54	29.99	6.82	2.18	22.78	16.71	
DP-SP175/65/200	5.49	175	65	2.00	699.78	324.90	32.98	6.81	2.17	22.59	20.17	
DP-SP205/65/150	4.47	205	65	1.50	569.45	356.76	25.40	7.92	2.11	22.82	14.19	
DP-SP205/65/180	5.36	205	65	1.80	683.29	426.43	30.04	7.90	2.10	22.56	20.73	
DP-SP205/65/200	5.95	205	65	2.00	758.58	472.19	33.03	7.89	2.09	22.39	25.02	
DP-SP235/65/150	4.81	235	65	1.50	613.25	493.42	25.44	8.97	2.04	22.62	17.12	
DP-SP235/65/180	5.78	235	65	1.80	736.09	590.07	30.08	8.95	2.02	22.38	25.02	
DP-SP235/65/200	6.42	235	65	2.00	817.38	653.62	33.07	8.94	2.01	22.21	30.21	
DP-SP265/65/150	5.16	265	65	1.50	657.05	657.67	25.47	10.00	1.97	22.45	20.24	
DP-SP265/65/180	6.19	265	65	1.80	788.89	786.84	30.12	9.99	1.95	22.22	29.58	
DP-SP265/65/200	6.88	265	65	2.00	876.18	871.82	33.11	9.98	1.94	22.07	35.74	
DP-SP300/65/150	5.56	300	65	1.50	708.15	886.80	25.51	11.19	1.90	22.27	24.10	
DP-SP300/65/180	6.68	300	65	1.80	850.49	1061.43	30.16	11.17	1.88	22.06	35.25	
DP-SP300/65/200	7.42	300	65	2.00	944.78	1176.42	33.15	11.16	1.87	21.92	42.60	
DP-SP325/65/150	5.85	325	65	1.50	744.65	1076.84	25.53	12.03	1.85	22.16	27.02	
DP-SP325/65/180	7.02	325	65	1.80	894.49	1289.24	30.19	12.01	1.84	21.96	39.53	
DP-SP325/65/200	7.80	325	65	2.00	993.78	1429.17	33.18	11.99	1.83	21.82	47.77	

ProSigma+ S390 (Prepainted) Section Properties

NOMINAL DIMENSIONS					SECTION PROPERTIES							
Section reference	Weight (kg/m)	Depth mm	Flange mm	Thickness mm	Area mm ²	I _{yy} cm ⁴	I _{zz} cm ⁴	I _y cm	I _z cm	C _z cm	My,Rk kNm	
DP-PSP145/65/150	3.78	145	65	1.50	481.85	158.36	25.29	5.73	2.29	23.34	7.72	
DP-PSP145/65/200	5.03	145	65	2.00	640.98	209.10	32.91	5.71	2.27	22.82	13.58	
DP-PSP175/65/150	4.13	175	65	1.50	525.65	245.74	25.35	6.84	2.20	23.06	9.92	
DP-PSP175/65/200	5.49	175	65	2.00	699.78	324.90	32.98	6.81	2.17	22.59	17.48	
DP-PSP205/65/150	4.47	205	65	1.50	569.45	356.76	25.40	7.92	2.11	22.82	12.30	
DP-PSP205/65/200	5.95	205	65	2.00	758.58	472.19	33.03	7.89	2.09	22.39	21.68	
DP-PSP235/65/150	4.81	235	65	1.50	613.25	493.42	25.44	8.97	2.04	22.62	14.84	
DP-PSP235/65/200	6.42	235	65	2.00	817.38	653.62	33.07	8.94	2.01	22.21	26.18	
DP-PSP265/65/150	5.16	265	65	1.50	657.05	657.67	25.47	10.00	1.97	22.45	17.54	
DP-PSP265/65/200	6.88	265	65	2.00	876.18	871.82	33.11	9.98	1.94	22.07	30.97	
DP-PSP300/65/150	5.56	300	65	1.50	708.15	886.80	25.51	11.19	1.90	22.27	20.89	
DP-PSP300/65/200	7.42	300	65	2.00	944.78	1176.42	33.15	11.16	1.87	21.92	36.92	
DP-PSP325/65/150	5.85	325	65	1.50	744.65	1076.84	25.53	12.03	1.85	22.16	23.41	
DP-PSP325/65/200	7.80	325	65	2.00	993.78	1429.17	33.18	11.99	1.83	21.82	41.40	



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