

ProSigma+ S390 (Prepainted) - Double Span Purlins - Load Tables

Section reference	Weight (Kg/m)	Total Working U.D.L. (kN)	Working Loads										Ultimate U.D.L. in kN/Span				
			Allowable loading in kN/m ²										Deflection Span /180	Gravity Load	Uplift - metal cladding		
			Purlin Centres in millimetres												Number of anti sag rods		
1200	1400	1600	1800	2000	2200	2400	2600	2800	2800	2800	0	1	2				
DP-PSP205/65/200	5.83	23.47	4.35	3.73	3.26	2.90	2.61	2.37	2.17	2.01	1.86	36.62	35.21	32.98	35.21	35.21	
DP-PSP235/65/150	4.75	15.15	2.80	2.40	2.10	1.87	1.68	1.53	1.40	1.29	1.20	36.99	22.72	22.72	22.72	22.72	
DP-PSP235/65/200	6.29	26.71	4.95	4.24	3.71	3.30	2.97	2.70	2.47	2.28	2.12	48.58	40.07	39.07	40.07	40.07	
DP-PSP265/65/150	5.09	17.36	3.22	2.76	2.41	2.14	1.93	1.75	1.61	1.48	1.38	49.35	26.04	26.04	26.04	26.04	
DP-PSP265/65/200	6.75	31.10	5.76	4.94	4.32	3.84	3.46	3.14	2.88	2.66	2.47	64.90	46.65	42.62	46.65	46.65	
DP-PSP300/65/150	5.49	17.93	3.32	2.85	2.49	2.21	1.99	1.81	1.66	1.53	1.42	66.61	26.90	26.90	26.90	26.90	
DP-PSP300/65/200	7.29	31.45	5.82	4.99	4.37	3.88	3.49	3.18	2.91	2.69	2.50	87.70	47.18	47.18	47.18	47.18	
DP-PSP325/65/150	5.78	20.12	3.73	3.19	2.79	2.48	2.24	2.03	1.86	1.72	1.60	80.95	30.17	30.17	30.17	30.17	
DP-PSP325/65/200	7.68	35.30	6.54	5.60	4.90	4.36	3.92	3.57	3.27	3.02	2.80	106.64	52.96	50.12	52.96	52.96	

S390 - Double Span Purlins - Span = 5m																
Section reference	Weight	U.D.L.	1200	1400	1600	1800	2000	2200	2400	2600	2800	Defl.	Gravity	0	1	2
DP-PSP145/65/150	3.71	8.69	1.45	1.24	1.09	0.97	0.87	0.79	0.72	0.67		10.66	13.04	13.04	13.04	13.04
DP-PSP145/65/200	4.91	13.94	2.32	1.99	1.74	1.55	1.39	1.27	1.16	1.07	1.00	13.94	21.92	21.85	21.92	21.92
DP-PSP175/65/150	4.06	10.25	1.71	1.46	1.28	1.14	1.02	0.93	0.85	0.79	0.73	15.55	15.37	15.37	15.37	15.37
DP-PSP175/65/200	5.37	17.44	2.91	2.49	2.18	1.94	1.74	1.59	1.45	1.34	1.25	20.37	26.16	25.19	26.16	26.16
DP-PSP205/65/150	4.4	12.40	2.07	1.77	1.55	1.38	1.24	1.13	1.03	0.95	0.89	22.61	18.60	17.42	18.60	18.60
DP-PSP205/65/200	5.83	21.36	3.56	3.05	2.67	2.37	2.14	1.94	1.78	1.64	1.53	29.66	32.05	27.74	32.05	32.05
DP-PSP235/65/150	4.75	13.96	2.33	1.99	1.75	1.55	1.40	1.27	1.16	1.07	1.00	29.96	20.94	20.63	20.94	20.94
DP-PSP235/65/200	6.29	24.36	4.06	3.48	3.05	2.71	2.44	2.21	2.03	1.87	1.74	39.35	36.54	32.90	36.54	36.54
DP-PSP265/65/150	5.09	16.07	2.68	2.30	2.01	1.79	1.61	1.46	1.34	1.24	1.15	39.97	24.11	22.53	24.11	24.11
DP-PSP265/65/200	6.75	28.42	4.74	4.06	3.55	3.16	2.84	2.58	2.37	2.19	2.03	52.57	42.63	35.76	42.63	42.63
DP-PSP300/65/150	5.49	16.14	2.69	2.31	2.02	1.79	1.61	1.47	1.35	1.24	1.15	53.96	24.21	24.21	24.21	24.21
DP-PSP300/65/200	7.29	28.31	4.72	4.04	3.54	3.15	2.83	2.57	2.36	2.18	2.02	71.04	42.46	39.85	42.46	42.46
DP-PSP325/65/150	5.78	18.10	3.02	2.59	2.26	2.01	1.81	1.65	1.51	1.39	1.29	65.57	27.16	26.54	27.16	27.16
DP-PSP325/65/200	7.68	31.77	5.30	4.54	3.97	3.53	3.18	2.89	2.65	2.44	2.27	86.38	47.66	41.87	47.66	47.66

S390 - Double Span Purlins - Span = 5.5m																
Section reference	Weight	U.D.L.	1200	1400	1600	1800	2000	2200	2400	2600	2800	Defl.	Gravity	0	1	2
DP-PSP145/65/150	3.71	7.98	1.21	1.04	0.91	0.81	0.73					8.81	11.98	11.62	11.98	11.98
DP-PSP145/65/200	4.91	11.52	1.75	1.50	1.31	1.16	1.05	0.95	0.87	0.81	0.75	11.52	20.05	18.96	20.05	20.05
DP-PSP175/65/150	4.06	9.44	1.43	1.23	1.07	0.95	0.86	0.78	0.72			12.85	14.16	13.44	14.16	14.16
DP-PSP175/65/200	5.37	15.98	2.42	2.08	1.82	1.61	1.45	1.32	1.21	1.12	1.04	16.83	23.97	21.78	23.97	23.97
DP-PSP205/65/150	4.4	11.45	1.74	1.49	1.30	1.16	1.04	0.95	0.87	0.80	0.74	18.68	17.18	14.84	17.18	17.18
DP-PSP205/65/200	5.83	19.60	2.97	2.55	2.23	1.98	1.78	1.62	1.48	1.37	1.27	24.51	29.40	23.87	29.40	29.40
DP-PSP235/65/150	4.75	12.93	1.96	1.68	1.47	1.31	1.18	1.07	0.98	0.90	0.84	24.76	19.40	17.59	19.40	19.40
DP-PSP235/65/200	6.29	22.39	3.39	2.91	2.54	2.26	2.04	1.85	1.70	1.57	1.45	32.52	33.58	28.33	33.58	33.58
DP-PSP265/65/150	5.09	14.94	2.26	1.94	1.70	1.51	1.36	1.23	1.13	1.04	0.97	33.04	22.41	19.15	22.41	22.41
DP-PSP265/65/200	6.75	26.16	3.96	3.40	2.97	2.64	2.38	2.16	1.98	1.83	1.70	43.44	39.23	30.71	39.23	39.23
DP-PSP300/65/150	5.49	14.67	2.22	1.91	1.67	1.48	1.33	1.21	1.11	1.03	0.95	44.59	22.01	21.36	22.01	22.01
DP-PSP300/65/200	7.29	25.45	3.86	3.31	2.89	2.57	2.31	2.10	1.93	1.78	1.65	58.71	38.18	34.17	38.18	38.18
DP-PSP325/65/150	5.78	16.46	2.49	2.14	1.87	1.66	1.50	1.36	1.25	1.15	1.07	54.19	24.69	22.47	24.69	24.69
DP-PSP325/65/200	7.68	27.75	4.20	3.60	3.15	2.80	2.52	2.29	2.10	1.94	1.80	71.39	41.62	35.82	41.62	41.62

S390 - Double Span Purlins - Span = 6m																
Section reference	Weight	U.D.L.	1200	1400	1600	1800	2000	2200	2400	2600	2800	Defl.	Gravity	0	1	2
DP-PSP145/65/150	3.71	7.38	1.03	0.88	0.77	0.68						7.40	11.07	10.18	11.07	11.07
DP-PSP145/65/200	4.91	9.68	1.34	1.15	1.01	0.90	0.81	0.73	0.67			9.68	18.47	16.74	18.47	18.47
DP-PSP175/65/150	4.06	8.75	1.21	1.04	0.91	0.81	0.73					10.80	13.12	11.72	13.12	13.12
DP-PSP175/65/200	5.37	14.15	1.96	1.68	1.47	1.31	1.18	1.07	0.98	0.91	0.84	14.15	22.11	19.16	22.11	22.11
DP-PSP205/65/150	4.4	10.64	1.48	1.27	1.11	0.98	0.89	0.81	0.74	0.68		15.70	15.96	12.88	15.96	15.96
DP-PSP205/65/200	5.83	18.10	2.51	2.16	1.89	1.68	1.51	1.37	1.26	1.16	1.08	20.60	27.15	20.91	26.89	27.15
DP-PSP235/65/150	4.75	12.04	1.67	1.43	1.25	1.11	1.00	0.91	0.84	0.77	0.72	20.80	18.06	15.29	18.06	18.06
DP-PSP235/65/200	6.29	20.70	2.88	2.46	2.16	1.92	1.73	1.57	1.44	1.33	1.23	27.33	31.05	24.84	31.05	31.05
DP-PSP265/65/150	5.09	13.94	1.94	1.66	1.45	1.29	1.16	1.06	0.97	0.89	0.83	27.76	20.91	16.60	20.91	20.91
DP-PSP265/65/200	6.75	24.22	3.36	2.88	2.52	2.24	2.02	1.83	1.68	1.55	1.44	36.50	36.33	26.87	34.87	36.33
DP-PSP300/65/150	5.49	13.45	1.87	1.60	1.40	1.25	1.12	1.02	0.93	0.86	0.80	37.47	20.18	18.49	20.18	20.18

ProSigma+ S390 (Prepainted) - Double Span Purlins - Load Tables

Section reference	Weight (Kg/m)	Total Working U.D.L. (kN)	Working Loads										Deflection Span /180	Ultimate U.D.L. in kN/Span			
			Allowable loading in kN/m ²											Gravity Load	Uplift - metal cladding		
			Purlin Centres in millimetres												Number of anti sag rods		
1200	1400	1600	1800	2000	2200	2400	2600	2800			0	1	2				
DP-PSP205/65/200	5.83	11.59	1.21	1.03	0.91	0.80	0.72					11.59	20.78	13.95	16.69	20.78	
DP-PSP235/65/150	4.75	9.40	0.98	0.84	0.73							11.70	14.11	9.95	12.34	14.11	
DP-PSP235/65/200	6.29	15.37	1.60	1.37	1.20	1.07	0.96	0.87	0.80	0.74	0.69	15.37	23.84	16.62	19.81	23.84	
DP-PSP265/65/150	5.09	10.96	1.14	0.98	0.86	0.76	0.68					15.61	16.44	10.73	13.45	16.44	
DP-PSP265/65/200	6.75	18.66	1.94	1.67	1.46	1.30	1.17	1.06	0.97	0.90	0.83	20.53	27.99	17.86	21.49	27.99	
DP-PSP300/65/150	5.49	8.74	0.91	0.78	0.68							21.08	13.12	11.90	13.12	13.12	
DP-PSP300/65/200	7.29	13.63	1.42	1.22	1.06	0.95	0.85	0.77	0.71			27.75	20.44	19.77	20.44	20.44	
DP-PSP325/65/150	5.78	9.46	0.99	0.84	0.74							25.61	14.19	12.41	14.19	14.19	
DP-PSP325/65/200	7.68	14.66	1.53	1.31	1.15	1.02	0.92	0.83	0.76	0.70		33.74	21.99	20.58	21.99	21.99	

S390 - Double Span Purlins - Span = 8.5m

Section reference	Weight	U.D.L.	1200	1400	1600	1800	2000	2200	2400	2600	2800	Defl.	Gravity	0	1	2
DP-PSP175/65/200	5.37	7.05	0.69									7.05	15.92	11.95	13.89	15.92
DP-PSP205/65/150	4.4	7.82	0.77									7.82	11.73	7.68	9.42	11.73
DP-PSP205/65/200	5.83	10.26	1.01	0.86	0.75	0.67						10.26	19.63	12.88	15.20	19.63
DP-PSP235/65/150	4.75	8.91	0.87	0.75								10.37	13.37	9.15	11.17	13.37
DP-PSP235/65/200	6.29	13.62	1.34	1.14	1.00	0.89	0.80	0.73	0.67			13.62	22.53	15.35	18.05	22.53
DP-PSP265/65/150	5.09	10.40	1.02	0.87	0.76	0.68						13.83	15.60	9.85	12.15	15.60
DP-PSP265/65/200	6.75	17.65	1.73	1.48	1.30	1.15	1.04	0.94	0.87	0.80	0.74	18.19	26.47	16.48	19.55	25.75
DP-PSP300/65/150	5.49	7.87	0.77									18.67	11.80	10.91	11.80	11.80
DP-PSP300/65/200	7.29	12.17	1.19	1.02	0.89	0.80	0.72					24.58	18.25	18.23	18.25	18.25
DP-PSP325/65/150	5.78	8.49	0.83	0.71								22.69	12.73	11.38	12.73	12.73
DP-PSP325/65/200	7.68	13.07	1.28	1.10	0.96	0.85	0.77	0.70				29.89	19.60	18.96	19.60	19.60

S390 - Double Span Purlins - Span = 9m

Section reference	Weight	U.D.L.	1200	1400	1600	1800	2000	2200	2400	2600	2800	Defl.	Gravity	0	1	2
DP-PSP205/65/200	5.83	9.15	0.85	0.73								9.15	18.60	11.97	13.94	17.93
DP-PSP235/65/150	4.75	8.47	0.78	0.67								9.25	12.70	8.47	10.19	12.70
DP-PSP235/65/200	6.29	12.15	1.12	0.96	0.84	0.75	0.67					12.15	21.36	14.27	16.56	21.22
DP-PSP265/65/150	5.09	9.89	0.92	0.78	0.69							12.34	14.83	9.10	11.07	14.83
DP-PSP265/65/200	6.75	16.22	1.50	1.29	1.13	1.00	0.90	0.82	0.75	0.69		16.22	25.10	15.30	17.91	23.25
DP-PSP300/65/200	7.29	10.92	1.01	0.87	0.76	0.67						21.92	16.38	16.38	16.38	16.38
DP-PSP325/65/150	5.78	7.64	0.71									20.24	11.47	10.50	11.47	11.47
DP-PSP325/65/200	7.68	11.70	1.08	0.93	0.81	0.72						26.66	17.55	17.55	17.55	17.55

S390 - Double Span Purlins - Span = 9.5m

Section reference	Weight	U.D.L.	1200	1400	1600	1800	2000	2200	2400	2600	2800	Defl.	Gravity	0	1	2
DP-PSP205/65/200	5.83	8.22	0.72									8.22	17.67	11.17	12.87	16.33
DP-PSP235/65/150	4.75	8.07	0.71									8.30	12.10	7.88	9.36	12.10
DP-PSP235/65/200	6.29	10.90	0.96	0.82	0.72							10.90	20.30	13.33	15.30	19.34
DP-PSP265/65/150	5.09	9.43	0.83	1.71								11.07	14.14	8.47	10.15	13.54
DP-PSP265/65/200	6.75	14.56	1.28	1.09	0.96	0.85	0.77	0.70				14.56	23.87	14.28	16.53	21.14
DP-PSP300/65/200	7.29	9.85	0.86	0.74								19.68	14.77	14.77	14.77	14.77
DP-PSP325/65/200	7.68	10.53	0.92	0.79	0.69							23.93	15.80	15.80	15.80	15.80

S390 - Double Span Purlins - Span = 10m

Section reference	Weight	U.D.L.	1200	1400	1600	1800	2000	2200	2400	2600	2800	Defl.	Gravity	0	1	2
DP-PSP235/65/200	6.29	9.84	0.82	0.70								9.84	19.34	12.51	14.22	17.73
DP-PSP265/65/150	5.09	9.01	0.08									9.99	13.51	7.91	7.37	12.34
DP-PSP265/65/200	6.75	13.14	10.10	0.94	0.82	0.73						13.14	22.75	13.40	15.34	19.35
DP-PSP300/65/200	7.29	8.93	0.74									17.76	13.39	13.39	13.39	13.39
DP-PSP325/65/200	7.68	9.53	0.79	0.68								21.59	14.29	14.29	14.29	14.29