

CALCULATIONS

Client: **METALCRAFT INSULATED PANELS**

23 Apr '23

Project: **AspirePanel & AspireSpan Panel Loading Tests**

Project No. **23664-I**

ASPIREPANEL LOADSPAN TABLE

Panel Thickness (mm)	Span (mm)										
	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500
Uniformly distributed loads kN/m²											
Ultimate Limit State (ULS)											
50	2.14	1.49	1.09	0.84	0.66	0.54	0.44	0.37	0.32	0.27	0.24
75	3.21	2.23	1.64	1.25	0.99	0.80	0.66	0.56	0.48	0.41	0.36
100	4.28	2.97	2.18	1.67	1.32	1.07	0.88	0.74	0.63	0.55	0.48
150	6.42	4.46	3.28	2.51	1.98	1.61	1.33	1.12	0.95	0.82	0.71
Serviceability Limit State (SLS)											
50	1.53	1.12	0.84	0.64	0.50	0.39	0.31	0.25	0.21	0.17	0.14
75	2.57	1.94	1.49	1.17	0.93	0.75	0.61	0.50	0.42	0.35	0.30
100	3.64	2.80	2.17	1.66	1.31	1.06	0.87	0.73	0.62	0.54	0.47
150	5.82	4.45	3.27	2.50	1.97	1.60	1.32	1.11	0.94	0.81	0.70

ASPIRESPAN LOADSPAN TABLE

Panel Thickness (mm)	Span (mm)										
	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500
Uniformly distributed loads kN/m²											
Ultimate Limit State (ULS)											
50	2.38	1.65	1.21	0.93	0.73	0.59	0.49	0.41	0.35	0.30	0.26
75	3.57	2.48	1.82	1.39	1.10	0.89	0.74	0.62	0.53	0.46	0.40
100	4.76	3.30	2.43	1.86	1.47	1.19	0.98	0.83	0.70	0.61	0.53
150	7.14	4.96	3.64	2.79	2.20	1.78	1.47	1.24	1.06	0.91	0.79
Serviceability Limit State (SLS)											
50	1.68	1.23	0.92	0.70	0.55	0.43	0.35	0.28	0.23	0.19	0.16
75	2.82	2.13	1.64	1.29	1.03	0.83	0.67	0.55	0.46	0.39	0.33
100	4.00	3.08	2.42	1.85	1.46	1.18	0.97	0.82	0.69	0.60	0.52
150	6.40	4.95	3.63	2.78	2.19	1.77	1.46	1.23	1.05	0.90	0.78