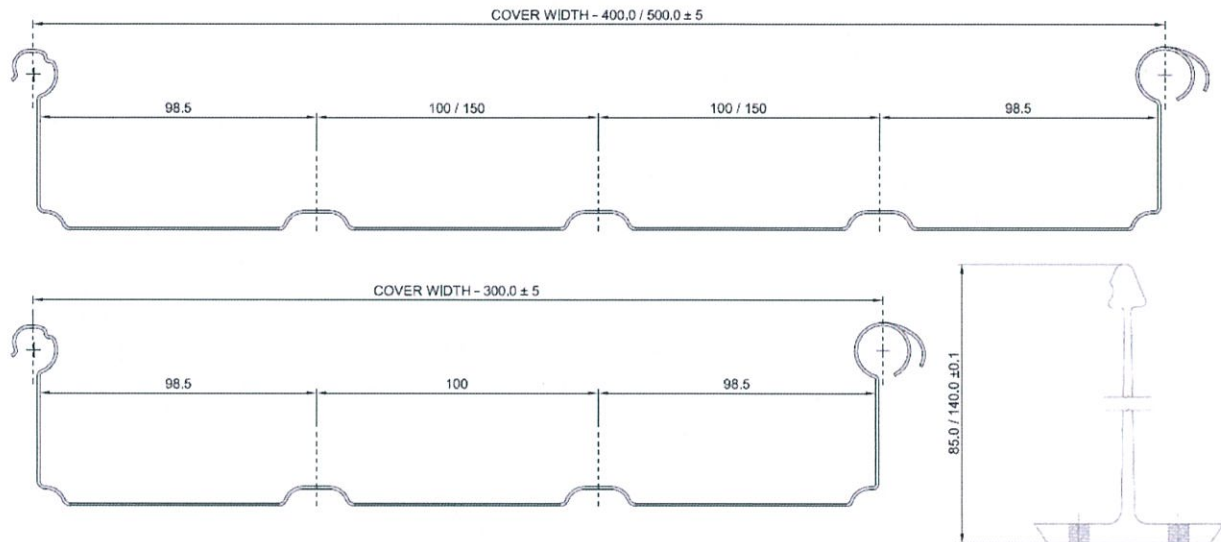


Profile:



Zipdek profile

Clip H85 & H140 (for Zipdek profile)

1. Limit State Load capacity for Zipdek is provided for 0.55 & 0.80 BMT (G300 - Steel), 0.90 & 1.20 BMT (Aluminium).
2. Zipdek is fastened using 1 clip per sheet to the support.
3. The capacity tables are based on testing carried out at Lysaght's NATA registered testing laboratory by using the direct pressure testing rig.
4. Testing was carried out in accordance to the following Australian Standards:
 - a. AS 1562-1992 – Design and Installation of sheet roof and wall cladding-Part 1: Metal
 - b. AS 4040.0-1992 – Methods for testing sheet roof and wall cladding-Part 0: Introduction, list of methods and general requirements
 - c. AS 4040.2-1992 – Methods for testing sheet roof and wall cladding - Method 2: Resistance to wind pressure for non-cyclone regions



ZIPDEK TEST REPORT SUMMARY

PIC/RW/R/296/09/0

Flex-lok™ Wind Uplift capacities

Resistance to uplift wind pressure (kPa)

Steel

BMT	Span type	Span	Flex-lok™ 300							Flex-lok™ 400							Flex-lok™ 500						
			900	1200	1500	1800	2100	2400	2700	900	1200	1500	1800	2100	2400	2700	900	1200	1500	1800	2100	2400	2700
0.55	Single	Serviceability	1.86	1.73	1.60	1.47	1.32	1.16	0.99	1.10	0.99	0.89	0.80	0.71	0.63	0.56	0.31	0.29	0.28	0.27	0.25	0.24	0.23
		Strength *	3.10	2.65	2.25	1.90	1.60	1.40	1.25	2.40	1.90	1.45	1.10	0.85	0.75	0.70	1.00	0.95	0.85	0.80	0.70	0.65	0.55
	End	Serviceability	1.37	1.35	1.33	1.32	1.29	1.26	1.24	0.63	0.58	0.55	0.53	0.52	0.53	0.55	0.28	0.27	0.26	0.26	0.25	0.24	0.24
		Strength *	2.65	2.30	2.00	1.75	1.55	1.45	1.35	1.40	1.20	1.05	0.95	0.85	0.80	0.80	0.85	0.80	0.70	0.65	0.60	0.60	0.60
	Internal	Serviceability	1.26	1.28	1.31	1.32	1.31	1.29	1.27	0.58	0.53	0.50	0.48	0.48	0.49	0.52	0.28	0.27	0.26	0.26	0.25	0.24	0.24
		Strength *	2.45	2.30	2.15	1.95	1.80	1.60	1.40	1.20	1.10	1.00	0.95	0.90	0.90	0.90	0.90	0.80	0.70	0.65	0.60	0.55	0.55
0.80	Single	Serviceability	6.00	5.15	4.34	3.62	3.00	2.48	2.02	2.64	2.50	2.32	2.12	1.86	1.57	1.26	1.24	1.12	1.01	0.92	0.85	0.80	0.74
		Strength *	7.30	7.05	6.75	6.40	5.90	5.30	4.60	5.45	4.80	4.25	3.70	3.30	2.95	2.65	3.15	2.85	2.55	2.30	2.10	1.90	1.75
	End	Serviceability	3.75	3.75	3.70	3.60	3.45	3.20	2.95	1.67	1.62	1.58	1.55	1.51	1.48	1.45	0.96	0.94	0.92	0.92	0.90	0.89	0.89
		Strength *	7.45	6.85	6.25	5.60	4.95	4.35	3.70	3.70	3.30	2.95	2.70	2.50	2.45	2.40	2.55	2.35	2.15	2.00	1.85	1.80	1.80
	Internal	Serviceability	3.72	3.66	3.61	3.56	3.50	3.45	3.40	1.60	1.56	1.53	1.50	1.46	1.43	1.40	0.85	0.83	0.82	0.81	0.79	0.78	0.78
		Strength *	7.55	6.75	6.00	5.40	4.95	4.65	4.40	3.50	3.25	3.00	2.85	2.75	2.70	2.70	2.35	2.25	2.15	2.05	1.95	1.85	1.75

Aluminium

0.9	Single	Serviceability	3.01	2.61	2.22	1.86	1.53	1.23	0.95	1.07	1.00	0.92	0.85	0.76	0.66	0.56	0.57	0.50	0.45	0.40	0.35	0.32	0.28
		Strength *	5.80	5.35	4.85	4.40	3.95	3.50	3.05	3.70	3.10	2.55	2.10	1.75	1.55	1.40	2.55	2.30	2.05	1.80	1.60	1.45	1.25
	End	Serviceability	1.71	1.74	1.76	1.73	1.63	1.50	1.34	0.86	0.84	0.82	0.80	0.77	0.75	0.73	0.30	0.30	0.31	0.33	0.34	0.35	0.37
		Strength *	5.45	4.70	4.05	3.45	3.05	2.70	2.40	2.25	2.00	1.75	1.55	1.45	1.40	1.40	1.95	1.75	1.60	1.45	1.35	1.25	1.20
	Internal	Serviceability	1.85	1.93	1.96	1.88	1.65	1.31	0.92	0.73	0.73	0.74	0.75	0.75	0.76	0.78	0.35	0.35	0.35	0.36	0.36	0.37	0.39
		Strength *	4.85	4.25	3.65	3.15	2.70	2.30	2.00	1.95	2.00	2.00	2.00	1.85	1.65	1.45	1.95	1.80	1.70	1.55	1.45	1.35	1.25
1.0†	Single	Serviceability	3.81	3.23	2.68	2.20	1.78	1.44	1.14	1.46	1.33	1.19	1.07	0.93	0.80	0.67	0.78	0.69	0.61	0.55	0.49	0.45	0.41
		Strength *	7.37	6.78	6.17	5.62	5.07	4.50	4.03	5.36	4.42	3.55	2.85	2.35	2.05	1.87	3.02	2.78	2.55	2.30	2.07	1.87	1.63
	End	Serviceability	2.40	2.39	2.37	2.29	2.12	1.91	1.67	1.10	1.08	1.07	1.05	1.02	0.99	0.97	0.43	0.44	0.45	0.47	0.48	0.49	0.51
		Strength *	4.50	5.53	4.68	3.95	3.45	3.07	2.77	3.93	3.27	2.67	2.18	1.88	1.73	1.65	2.53	2.32	2.13	1.93	1.75	1.55	1.38
	Internal	Serviceability	2.55	2.56	2.54	2.44	2.24	1.96	1.65	1.03	1.02	1.02	1.02	1.01	1.01	1.02	0.48	0.48	0.48	0.49	0.50	0.53	0.56
		Strength *	6.15	5.42	4.70	4.05	3.47	2.92	2.45	2.93	2.82	2.68	2.55	2.30	2.02	1.73	2.40	2.25	2.13	1.97	1.83	1.70	1.57
1.2	Single	Serviceability	5.41	4.47	3.61	2.87	2.29	1.87	1.53	2.25	1.99	1.73	1.50	1.28	1.08	0.90	1.19	1.06	0.94	0.85	0.77	0.72	0.68
		Strength *	10.30	9.65	8.80	8.05	7.30	6.50	6.00	8.75	7.05	5.55	4.35	3.55	3.05	2.80	3.95	3.75	3.55	3.30	3.00	2.70	2.40
	End	Serviceability	3.77	3.69	3.58	3.4	3.1	2.73	2.33	1.58	1.57	1.56	1.55	1.52	1.48	1.44	0.70	0.72	0.74	0.76	0.77	0.77	0.78
		Strength *	8.6	7.2	5.95	4.95	4.25	3.8	3.5	7.30	5.80	4.50	3.45	2.75	2.40	2.15	3.70	3.45	3.20	2.90	2.55	2.15	1.75
	Internal	Serviceability	3.95	3.82	3.69	3.56	3.41	3.26	3.11	1.63	1.60	1.57	1.55	1.53	1.51	1.50	0.73	0.73	0.73	0.76	0.79	0.85	0.91
		Strength *	8.75	7.75	6.8	5.85	5	4.15	3.35	4.90	4.45	4.05	3.65	3.20	2.75	2.30	3.30	3.15	3.00	2.80	2.60	2.40	2.20

1. Strength limit state pressure capacities have been determined by testing the cladding to failure. A capacity reduction factor of 0.9 is applied to derive the design capacity in the table above.
2. Serviceability limit state pressure capacities are based on a deflection limit of (span/120) + (maximum fastener pitch/30).

**note: further details refer to Lysaght Zipdek Brochure.*

Prepared by,



Ng Cheah Haur
Product Development Engineer

Approved by,



Gil Amilbangsa
Innovation Manager