

Design Wind Pressure		Maximum Tophat Spacing (mm) - 50 x 24 x 1.1 mm BMT G250								
ULS, $W_u$ (kPa)	SLS, $W_s$ (kPa)	Tophat Span / Support Spacing (mm)								
		300	400	450	600	900	1200	1500	1800	2100
1.00	0.68	2000	2000	2000	2000	1750	740	370	200	130
1.50	1.01	2000	2000	2000	2000	1160	490	250	140	NS
2.00	1.35	2000	2000	2000	2000	870	370	180	NS	NS
2.50	1.69	2000	2000	2000	1600	700	290	150	NS	NS
3.00	2.03	2000	2000	2000	1340	580	240	NS	NS	NS
3.50	2.37	2000	2000	1800	1140	500	210	NS	NS	NS
4.00	2.70	2000	1880	1570	1000	430	180	NS	NS	NS
4.50	3.04	2000	1670	1400	890	390	160	NS	NS	NS
5.00	3.38	2000	1510	1260	800	350	140	NS	NS	NS
5.50	3.72	2000	1370	1140	730	310	130	NS	NS	NS
6.00	4.06	1920	1250	1050	670	290	NS	NS	NS	NS
6.50	4.39	1770	1160	970	610	270	NS	NS	NS	NS
7.00	4.73	1650	1070	900	570	250	NS	NS	NS	NS
7.50	5.07	1530	1010	840	530	230	NS	NS	NS	NS
8.00	5.41	1440	940	780	500	200	NS	NS	NS	NS
8.50	5.75	1350	880	740	470	200	NS	NS	NS	NS
9.00	6.08	1280	830	700	440	190	NS	NS	NS	NS

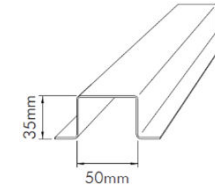
NS = Not Suitable

Screw fixing key: 2 x No.10 2 x No.12 2 x No.14 4 x No.12 (minimum specification)

- Notes:**
- Table data based on tophats having a minimum of 3 continuous spans.
  - Tophat shall be minimum thickness 1.1 mm BMT, minimum grade G250, and minimum coating Z275, AZ150 or AM150.
  - Serviceability wind pressure (SLS,  $W_s$ ) is based on a recurrence interval of 25 years in Region A, factored against a recurrence interval of 500 years for ultimate wind pressure (ULS,  $W_u$ ). Refer to AS/NZS 1170.2 Table 3.1.
  - Table based on uniformly distributed line loading along tophat. For discreet fixing of sheets or cassettes to tophats, this is assumed to be acceptable for fixing centres less than 300mm or the tophat span divided by 4, whichever is the lesser.
  - Self-drilling hex head screws shall be in accordance with AS3566 Parts 1 and 2.
  - Connection design based on AS/NZS 4600:2018. Purlin substrate shall be minimum 1.2mm BMT, G500 cold-formed steel. Minimum distance of centreline of screw to edge of tophat shall be 1.5d, as follows:  
 No.10 : e = 7.2 mm    No.12 : e = 8.3 mm    No.14 : e = 9.5 mm
  - Capacity of screws in pullout from the tophat is as follows (calculated in accordance with AS/NZS 4600:2018 Section  
 No.10 : 0.718 kN    No.12 : 0.822 kN    No.14 : 0.942 kN



# FAIRVIEW



Design Wind Pressure		Maximum Tophat Spacing (mm) - 50 x 35 x 1.1 mm BMT G250								
ULS, $W_u$ (kPa)	SLS, $W_s$ (kPa)	Tophat Span / Support Spacing (mm)								
		300	400	450	600	900	1200	1500	1800	2100
1.00	0.68	2000	2000	2000	2000	2000	1910	1260	730	460
1.50	1.01	2000	2000	2000	2000	1970	1270	840	480	300
2.00	1.35	2000	2000	2000	2000	1480	950	630	360	230
2.50	1.69	2000	2000	2000	2000	1180	760	500	290	NS
3.00	2.03	2000	2000	2000	1770	980	630	420	240	NS
3.50	2.37	2000	2000	2000	1520	840	540	360	200	NS
4.00	2.70	2000	2000	1960	1330	740	470	310	NS	NS
4.50	3.04	2000	2000	1740	1180	660	420	280	NS	NS
5.00	3.38	2000	1830	1570	1060	590	380	250	NS	NS
5.50	3.72	2000	1660	1420	960	540	340	230	NS	NS
6.00	4.06	2000	1520	1310	880	490	310	210	NS	NS
6.50	4.39	2000	1410	1200	810	450	290	NS	NS	NS
7.00	4.73	1880	1310	1120	760	420	270	NS	NS	NS
7.50	5.07	1750	1220	1040	700	390	250	NS	NS	NS
8.00	5.41	1640	1140	980	660	370	230	NS	NS	NS
8.50	5.75	1540	1070	920	620	340	220	NS	NS	NS
9.00	6.08	1460	1010	870	590	330	210	NS	NS	NS

NS = Not Suitable

Screw fixing key: 2 x No.10 2 x No.12 2 x No.14 4 x No.12 (minimum specification)

**Notes:**

- Table data based on tophats having a minimum of 3 continuous spans.
- Tophat shall be minimum thickness 1.1 mm BMT, minimum grade G250, and minimum coating Z275, AZ150 or AM150.
- Serviceability wind pressure (SLS,  $W_s$ ) is based on a recurrence interval of 25 years in Region A, factored against a recurrence interval of 500 years for ultimate wind pressure (ULS,  $W_u$ ). Refer to AS/NZS 1170.2 Table 3.1.
- Table based on uniformly distributed line loading along tophat. For discreet fixing of sheets or cassettes to tophats, this is assumed to be acceptable for fixing centres less than 300mm or the tophat span divided by 4, whichever is the lesser.
- Self-drilling hex head screws shall be in accordance with with AS3566 Parts 1 and 2.
- Connection design based on AS/NZS 4600:2018. Purlin substrate shall be minimum 1.2mm BMT, G500 cold-formed steel. Minimum distance of centreline of screw to edge of tophat shall be  $1.5d_f$  as follows:  
 No.10 :  $e = 7.2$  mm    No.12 :  $e = 8.3$  mm    No.14 :  $e = 9.5$  mm
- Capacity of screws in pullout from the tophat is as follows (calculated in accordance with AS/NZS 4600:2018 Section  
 No.10 : 0.718 kN    No.12 : 0.822 kN    No.14 : 0.942 kN