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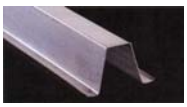


61mm Top Hat Batten

The economical alternative to timber roof battens.

The Product

Metroll 61mm Top Hat Batten is the economical alternative to timber roof battens. Made from Hi-Tensile Australian steel, Metroll 61mm Top Hat Battens are light, nest together, storage, carrying, and handling are made easier.

Metroll 61mm Top Hat Battens can be lapped, saving the time-consuming process of cuttin gto lenght and so making them quicker and easier to install. Their consistent straightness simplifies alignment, and fastening is quick and easy using self-drilling screws.

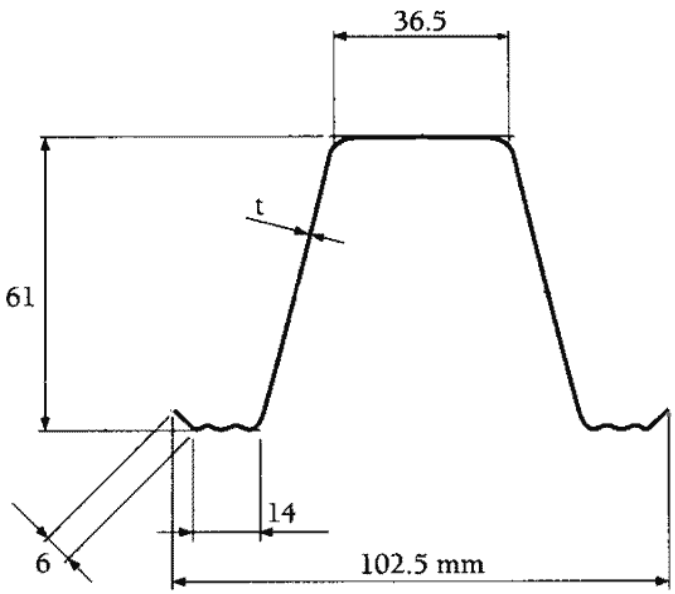
Material Specifications

Metroll 61mm Top Hat Batten is manufactured from Zincalume® steel complying with AS 1397-G550-AZ150 (550MPa minimum yield strenght, 150g/sq. m minimum coating mass).

Selection Properties

Thickness (mm) (BMT)	0.75
Yield Strength (MPa)	550
Coating Mass (kg/sq. m)	150
Mass (kg/m)	1.18

Dimensions



« Dimesions for the 61mm Top Hat Battens

Section Properties

0.75 mm BMT Safe loads in kilonewtons per metre of span (kN/m)												
Span (L)	Simple Span						Double Span					
	Inward			Outward			Inward			Outward		
	Safe Load	Deflection		Safe Load	Deflection		Safe Load	Deflection		Safe Load	Deflection	
		L/150	L/90		L/150	L/90		L/150	L/90		L/150	L/90
1000	8.18	8.96		5.60	7.12		4.02			5.32 (5.04)		
1200	5.68	5.19	-	4.67	5.17	-	3.35	-	-	4.85 (4.20)	-	-
1400	4.17	3.27	5.01	4.00	3.20	4.98	2.87	5.97		4.00 (3.06)	5.28	
1600	3.20	2.19	3.36	3.08	2.14	3.34	2.51	4.02	6.72	3.06	3.53	5.51
1800	2.52	1.54	2.36	2.43	1.50	2.34	2.23	2.82	4.72	2.42	2.48	3.86
2000	2.05	1.12	1.72	1.97	1.10	1.72	1.98	2.06	3.44	1.96	1.82	2.84
2200	1.69	0.84	1.29	1.63	0.82	1.28	1.64	1.55	2.59	1.63	1.35	2.11
2400	1.42	0.65	1.00	1.37	0.63	0.98	1.38	1.19	1.99	1.37	1.04	1.62
2600	1.21	0.51	0.78	1.16	0.47	0.73	1.17	0.94	1.57	1.16	0.78	1.20
2800	1.04	0.41	0.63	1.01	0.35	0.55	1.01	0.75	1.25	1.03	0.58	0.91
3000	0.91		0.51	0.85		0.47	0.88		1.02	0.88		0.78
3200	0.80	-	0.42	0.71	-	0.35	0.77	-	0.84	0.73	-	0.58
3400	0.71			0.60			0.69			0.63		
3600	0.63	-	-	0.49	-	-	0.61	-	-	0.52	-	-
3800	0.57			0.40			0.55			0.42		
4000	0.51	-	-	0.33	-	-	0.50	-	-	0.35	-	-

Lapped Double Span						
Span (L)	0.75 mm BMT - Safe loads in kilonewtons per metre of span (kN/m)					
	Inward			Outward		
	Safe Load	Deflection		Safe Load	Deflection	
		L/150	L/90		L/150	L/90
1000	5.75			6.07 (4.96)		
1200	4.79	-	-	5.06 (4.14)	-	-
1400	4.11			4.39 (3.54)		
1600	3.59	4.57	-	3.57 (3.10)	3.85	-
1800	2.62	3.21	5.35	2.82 (2.75)	2.70	4.21
2000	2.12	2.34	3.90	2.29	1.98	3.10
2200	1.75	1.75	2.93	1.89	1.48	2.30
2400	1.47	1.35	2.26	1.59	1.13	1.76
2600	1.25	1.07	1.78	1.35	0.85	1.31
2800	1.03	0.85	1.42	1.17	0.63	0.99
3000	0.94		1.16	1.02		0.85
3200	0.83	-	0.95	0.89	-	0.63
3400	0.73			0.75		
3600	0.65	-	-	0.69	-	-
3800	0.59			0.60		
4000	0.53	-	-	0.49	-	-

Notes

- The safe loads have been determined from an extensive test program, at BHP's NATA registered testing laboratory.
- The safe loads are uniformly distributed along the length of the 61mm Top Hat and the loads are applied through cladding, screw fixed to 61mm top hat.
- The safe loads allow for connection capacity to the supports. For cold formed steel supports, a minimum of 1.9 metal thickness is required. Values in brackets indicate reduced values when thickness of 1.0, 1.2, 1.5mm is used. For example, 61mm Top Hat, 0.75mm BMT, 1000mm double span = 5.32 for 1.9BMT, or 5.04 for 1.0, 1.2 and 1.5 BMT.
- For cold formed steel supports the 61mm Top Hat is fastened to the flange for the support.
- Lapped spans require a minimum of 15% (measured between lap screws) of the span between rafters or supports. Two screw fasteners are rquired at each end of the lap joints, located in the webs as close as possible to the flanges.
- Fastener requirements are as follows:
  -Non Cyclonic - End of Internal Supports : 2 fasteners per support.
  -Cyclonic - End supports:2 fasteners per support.
  -Cyclonic - Internal supports : 4 fasteners per support (capping require on double span)
- Fastener:
  Steel Supports - No 12 -14 x 20mm TEKS Timber - No. 14 - 10 x 50mm Type 17