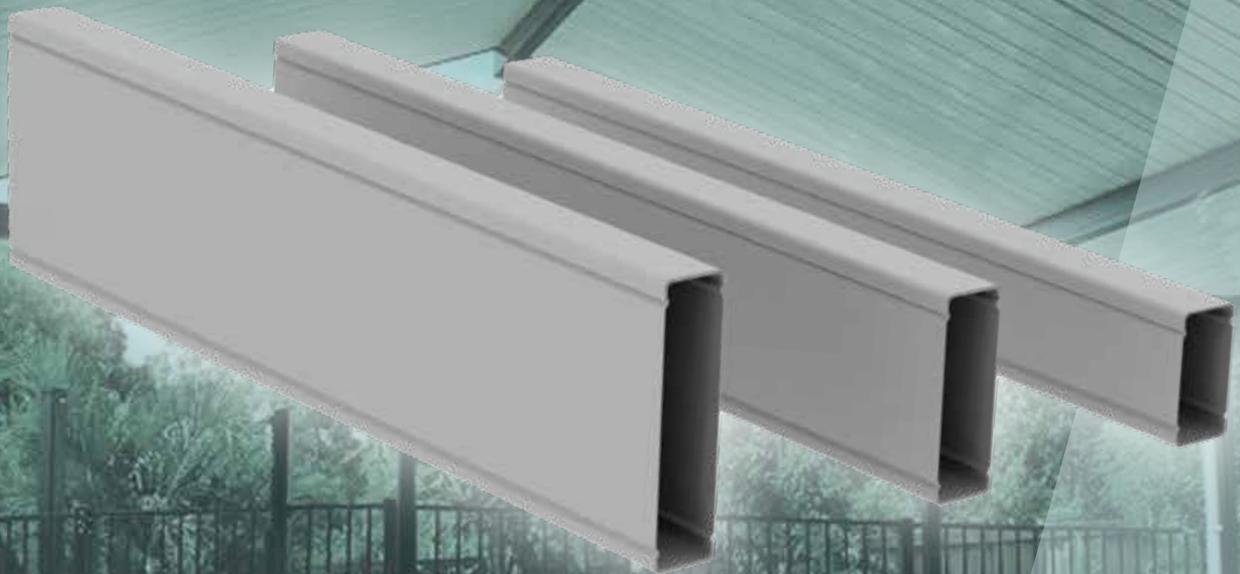


ALTO PATIO BEAM

COLORBOND® STEEL BEAMS FOR PATIOS, VERANDAHS & CARPORTS



A Met-TECH™ GUIDE

JULY 2025



Metroll®

BETTER SERVICE • BETTER BUILDING SOLUTIONS

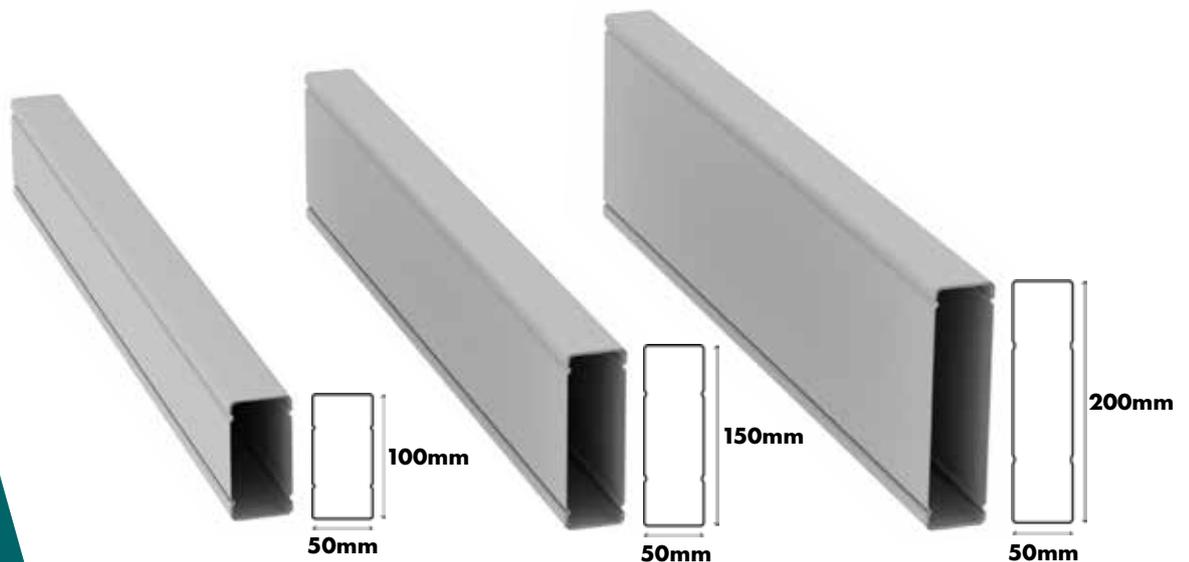
ALTO PATIO BEAM



Alto Patio Beam from Metroll is custom length, high tensile steel beams manufactured from 0.75mm, 1.00 and 1.20mm BMT COLORBOND® steel. Alto Patio Beam is engineered and designed for long spans and a smooth finish. Ideal for verandahs, patios and carports.

FEATURES & BENEFITS

- Custom cut lengths reduce site time, costs and waste.
- Fully enclosed beam for improved appearance.
- Complete range of matching accessories.
- Wide range of COLORBOND® colours.



AVAILABLE SIZES

- 100 mm
- 150 mm
- 200 mm

Maximum Length 9m

What is Met-TECH™?

Met-TECH™ is Metroll's Technical Resource Centre. It is the one stop shop for all of Metroll's product and technical information. Perfect for builders, contractors and specifiers to source all the information they may require. You can find other Met-TECH™ items on our website

www.metroll.com.au/resources

PATIO BEAM

Dimensions mm	BMT mm	MASS kg/m	Steel Base MPa	Finish
100 x 50	0.75	2.55	G550 Hi Tensile	XHI Colorbond®
	1.00	3.38		
150 x 50	0.75	3.16		
	1.00	4.18		
	1.20	5.00		
200 x 50	1.00	4.98		
	1.20	5.96		

ALTO PATIO BEAM SPAN CAPACITY TABLE (kN/m)

SPAN		1800		2400		3000		3600		4200		4800		5400		6000	
SIZE mm	BMT mm	Single	Double														
100 x 50	0.75	7.78	6.22	5.83	4.67	4.20	3.73	2.92	2.92	1.95	1.95	1.34	1.49	0.94	1.18	0.67	0.96
	100	8.89	6.67	6.67	5.00	5.33	4.00	4.07	3.33	2.99	2.86	2.08	2.29	1.48	1.81	1.07	1.33
150 x 50	0.75	11.67	9.11	8.75	6.83	7.00	5.47	5.11	4.56	3.76	3.76	2.62	2.88	1.86	2.27	1.34	1.84
	1.00	14.44	11.11	10.83	8.33	8.67	6.67	7.1	5.56	5.22	4.76	3.78	4.00	2.76	3.16	2.09	2.56
	1.20	16.67	12.44	12.50	9.33	10.00	7.47	7.98	6.22	5.86	5.66	4.49	4.49	3.19	3.54	2.30	2.87
200 x 50	1.00	18.33	14.22	13.75	10.67	11.00	8.53	9.17	7.11	7.86	6.10	5.81	5.33	4.41	4.33	3.51	3.51
	1.20	20.00	15.56	15.00	11.67	12.00	9.33	10.00	7.78	8.57	6.67	6.74	5.83	5.32	5.19	4.31	4.31

DESIGN NOTES

- Table shows uplift loads based on bending, reaction and deflection limits.
- Foot traffic is limited to 1.1kN.
- Deflection is limited to: Span/150 for wind load
Span/300 for dead load

BRACKETS & ACCESSORIES



SUSPENSION BRACKET Type A



SUSPENSION BRACKET Type B



END CAP



INLINE CONNECTOR

Colorbond®

HI-GLOSS COLOUR RANGE



LOW-GLOSS COLOUR RANGE



Low Gloss Surfmist® is a suitable match to most white insulated panel ceiling finishes.

AVAILABILITY & DELIVERY

Alto Patio Beam is available in custom cut lengths. Contact your local Metroll branch for lead times, colours and availability. Ensuring suitable arrangements are made to assist the unloading of Metroll trucks will help supply material in good order. When lifting long lengths by crane please ensure the load is evenly spread. Where a crane cannot be made available it is the customers responsibility to provide sufficient labour to assist the driver in unloading.

CARE, HANDLING & STORAGE

CORSTRIP® is a plastic film applied to COLORBOND® steel products to provide temporary protection during manufacturing, handling and transportation. This film is easily removed when new; however, ease of removal decreases over time and particularly with exposure to sunlight. Immediate removal is recommended. Dispose of CORSTRIP® film responsibly. Keep packs dry, stored clear of the ground and protected from rain and moisture. Items that become wet should be separated, wiped and placed in the open air to dry.

ALTO PATIO BEAM INSTALLATION

The attachment of patios, awnings or carports to existing structures must be verified by an engineer or builder and check for structural integrity, drainage and post attachment and support.

Alto Patio Beam is suitable for use with Metroll's full range of roofing products as well as a wide range of insulated panel products.

OVERHANGS

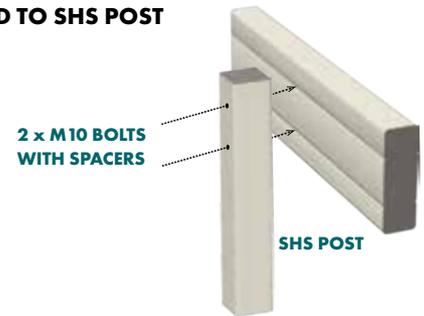
Head Beams can overhang past the supporting post by the values in the following table. Post connections must be bolted. Overhangs support cladding only.

BEAM DIMENSION mm	BMT mm	MAX. OVERHANG mm
100 x 50	0.75	1000
	1.00	1100
150 x 50	0.75	1200
	1.00	1300
	1.20	1500
200 x 50	1.00	1700
	1.20	1800

TYPICAL ASSEMBLIES/CONNECTIONS

NOTE: These details are to be considered typical and should be verified by the project designer or builder.

ASSEMBLY 1: PATIO BEAM BOLTED TO SHS POST



ASSEMBLY 2: PATIO BEAM TO SHS POST WITH SUSPENSION BRACKET



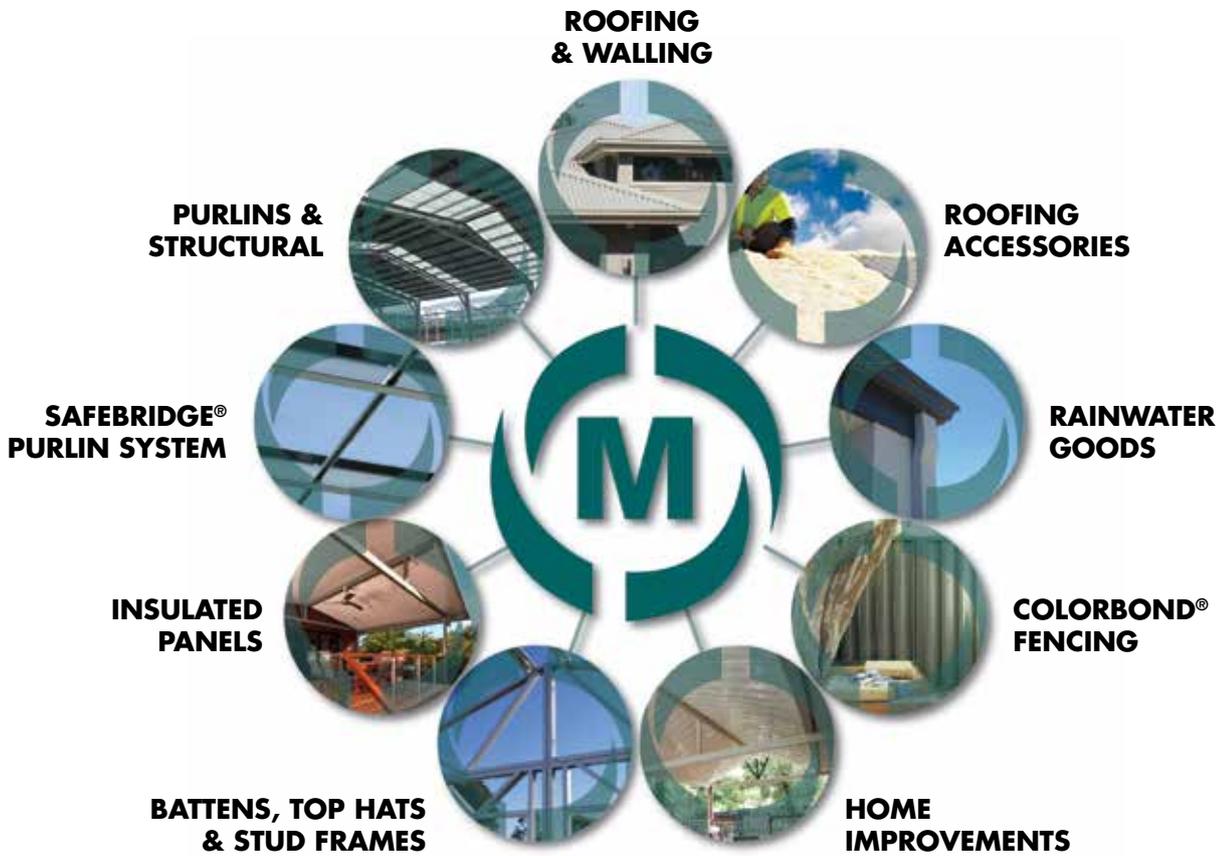
ASSEMBLY 3: PATIO BEAM TO PATIO BEAM WITH SUSPENSION BRACKET



ASSEMBLY 4: PATIO BEAMS TO PATIO BEAM WITH SUSPENSION BRACKETS



Can we assist with any additional Steel Building Products?



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