

SPANPLUS 330

PATIOS, AWNINGS, CARPORTS & HOME IMPROVEMENTS



A Met-TECH GUIDE

OCTOBER 2021



Metroll[®]

BETTER SERVICE • BETTER BUILDING SOLUTIONS

SPANPLUS 330



Sheet Width: 350mm Cover: 330mm Height: 44mm

Spanplus 330 is a profile manufactured from 0.42mm BMT double sided, high gloss G550s, AM100 COLORBOND® and G550, AM125 ZINCALUME® steels. Spanplus 330 has been purpose designed for non-roof traffic areas including patios, awnings and carports in cyclonic and non-cyclonic regions. The 350mm sheet width makes handling easy during installation.

FEATURES & BENEFITS

- Works as a roof and ceiling in one
- Suitable for low pitch roofs
- Easy and fast installation
- Available in COLORBOND® and ZINCALUME® steels

SPANPLUS 330® - ROOFING

BMT mm	Steel Base Mpa		Min. Pitch°	Mass Colorbond® kg/m	Mass Zinc kg/m
	Colorbond®	Zinc			
0.42	G550s	G550	1	1.625	1.625

COLOUR RANGE



Surfmist®



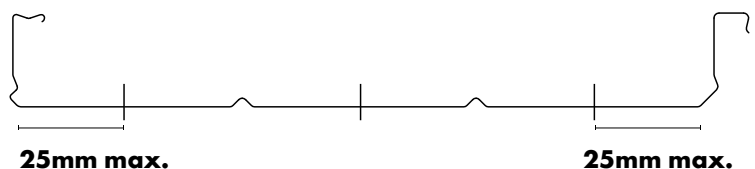
Classic Cream™



Paperbark®

FASTENERS & SUPPORT SPACINGS

Spanplus 330 may be fixed into minimum steel roofing support of 1.00mm BMT with 3 x 12-14 x 20mm tek screws (or equivalent) per sheet. Fasteners must be located less than 25mm from the ends of sheets. Always face side laps away from the prevailing weather.



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

LIMIT STATE PRESSURE CAPACITY TABLE

SPAN TYPE	LIMIT STATE	SPAN (mm)													
		1200	1500	1800	2100	2400	2700	3000	3300	3600	3900	4200	4500	4800	5100

0.42 BMT

Single	Serviceability	1.05	0.90	0.80	0.60	0.50	0.40	0.36	0.27	0.20	0.16	0.12	0.10	0.08	0.07	0.06
	Strength	10.33	6.61	4.59	3.37	2.58	2.04	1.65	1.37	1.15	0.98	0.84	0.73	0.65	0.57	0.51
End	Serviceability	1.34	1.20	1.05	0.90	0.80	0.65	0.60	0.50	0.38	0.30	0.23	0.19	0.15	0.13	0.11
	Strength	7.31	5.84	4.59	3.37	2.58	2.04	1.65	1.37	1.15	0.98	0.84	0.73	0.65	0.57	0.51
Internal	Serviceability	1.38	1.25	1.15	1.00	0.90	0.80	0.75	0.64	0.49	0.38	0.30	0.24	0.20	0.16	0.14
	Strength	8.30	6.64	5.36	3.94	3.01	2.38	1.93	1.59	1.34	1.14	0.98	0.86	0.75	0.67	0.60

NOTES TO LIMIT STATE TABLE & DESIGN CRITERIA

This table has been prepared based on the below Section Properties.

"Internal" are continuous claddings (min. 3 spans) with the end spans at least 20% shorter than the intermediate spans.

"End" are continuous claddings (min. 2 spans) with all spans having equal length.

The capacity table only applies for Non-Cyclonic Areas (Region A & B) as per AS 1170.2-2011. Steel material should have minimum yield strength of 550 MPa. Self-weight has not been considered in calculations of pressure capacities. The values above are calculated in accordance with AS 4600 Cold-formed Steel Structures and were derived from moment and deflection formulas. Spans are designed to limit max. deflection of (span/120) + (max. fastener pitch/30) under service load. Calculation of roof fixing is based on three 12g - 14 TPI x 20 long Buildex tek screws (or approved equivalent) fasteners per sheeting into minimum steel support of 1.00 mm BMT G500 and installed as per manufacturer's specifications.

SECTION PROPERTIES				GROSS SECTION		EFFECTIVE SECTION		GROSS SECTION		EFFECTIVE SECTION	
WIDTH mm	THICKNESS mm	GRADE MPa	AREA mm ²	I_x mm ⁴	$I_{x\text{eff}}$ mm ⁴	$Z_{x\text{TOP}}$ mm ³	$Z_{x\text{BOT}}$ mm ³	$Z_{x\text{EFF TOP}}$ mm ³	$Z_{x\text{EFF BOT}}$ mm ³		
332.5	0.42	550	183	38000	20000	1402	5096	1203	4044		

SPAN TABLE (mm)

WIND CLASS	$V_{50,500\text{m/s}}$	OPEN 3 SIDES	OPEN 2 SIDES	OPEN 1 SIDE	ENCLOSED	FREE STANDING
N1	34	4500	4500	4470	4500	4500
N2	40	4500	4500	4160	4440	4500
N3	50	4410	4080	3540	3970	4500
N4	61	3890	3500	2690	3340	4300
N5	74	3370	2660	1480	2420	3850
C1	50	4410	4080	3540	3540	4620
C2	61	3980	3500	3690	3690	4300
C3	74	3370	2660	NG	NG	3850
C4	86	2710	1750	NG	NG	3350

LENGTH

Metroll supplies Spanplus 330 cut to order as required, with 500mm minimum and 8000mm maximum length. Lengths for manufacture need to be site measurements and not taken off plans. Length tolerance is +0mm, -15mm.

MATERIAL COMPATIBILITY

Lead, copper, bare metal and some chemically treated timbers are not compatible with Spanplus 330. Never use lead flashings with Spanplus 330 sheeting made from COLORBOND® and ZINCALUME® steels.

CARE, HANDLING & STORAGE

Care should be taken at all times when handling sheets to preserve the quality of the finish. Keep packs dry, stored clear of the ground and protected from rain and moisture. Any sheets which become wet should be separated, wiped and placed in the open air to dry.

MATERIAL SPECIFICATION & SCOPE

Material should be specified on as Spanplus 330 manufactured by Metroll and installed in accordance with the manufacturers recommendations.

CUTTING

Cut sheets with a method and in a location so that damage is avoided to sheets and other building products. Material should be cut on the ground and not above other materials. Remove all swarf and debris from the work and installation area. Sheets may be cut using a power saw with a steel cutting blade, a power nibbler or with tin snips. Avoid using abrasive discs as these can cause edge and coating damage.

CLEAN UP

Prior to departing the work site remove all foreign debris, screws, rivets and especially any swarf created by drilling or cutting from the roof surface and/or inside gutters. Failure to do so may result in premature corrosion.

AVAILABILITY & DELIVERY

Spanplus 330 is available from Metroll Adelaide and Metroll WA branches only. Contact Metroll for lead times 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.

ADVERSE CONDITIONS

Localised environmental conditions can impact the corrosive nature of a site which may impact on material choice. Conditions that may impact on material choice include; direction of prevailing winds, rainfall intensity, duration of exposure, temperature, shelter and areas not washed by rainfall. Contact your local Metroll branch if you intend to use Spanplus 330 within 1 km of industrial, chemical, marine or corrosive environments.

Available from:

BRANCH	PHONE	ADDRESS
Metroll Adelaide	08 8282 3300	70 - 72 Rundle Road, Salisbury South, SA 5106
Metroll Perth	08 9365 5444	5 Chilver Street, Kewdale, Perth, WA 6105
Metroll Bunbury	08 9796 9796	11 Proffit Street, Bunbury, WA 6230
Metroll Albany	08 9841 6966	179 Chester Pass Road, Albany, WA 6330

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