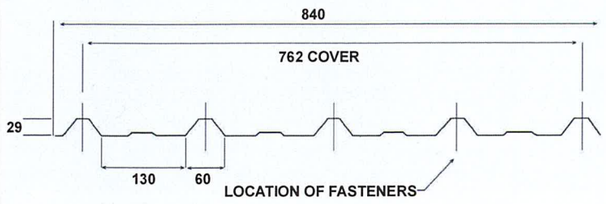
NORTHERN TERRITORY DEEMED TO COMPLY MANUAL – National Construction Code (NCC) Volume 2

This product has been determined to satisfy NCC Performance Requirement H1P1 for structural resistance of materials and forms of construction in high wind areas

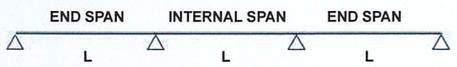


SCREW FIXING TABLE	
Timber	14 - 10 x 65 Type 17
Steel 0.75 to 1.0mm thick	M6.5 -12 x 55mm roof zips*
Steel 1.2 to 4mm	14 - 10 x 53 Hex Head

* 'Zips' refers to self tapping screws with universal tip.

NOTES TO TABLE:

1. The table values are only valid for use when the supporting steel members are high tensile steel, G450 with thickness greater than or equal to 0.75mm or F17 Hardwood.
2. Roof sheeting shall be crest fixed to supports with Class 4 self drilling screws (complying with the screw fixing table) at every second rib in accordance with the manufacturer's recommendations. Length to suit insulation/sarking and 30mm embedment into timber. Cyclone washers, where specified, shall be "Rooflok".
3. Side lap fasteners are required on all spans greater than 900mm and shall consist of No.8 - 18 x 12mm screws at midspan.
4. ***Italic & Bold*** denotes spans that exceed foot traffic limitations.
5. Maximum spans to suit foot traffic are: 0.42mm 1900mm internal and 1350mm end spans, 0.48mm 2600mm internal and 1900mm end spans.
6. Span types in the tables refer to the following support and geometry configurations:



Where: △ denotes a support location. L = span to be used in conjunction with the table.
Equal span systems should be designed using end span values for all spans.

LIMIT STATE DESIGN WIND PRESSURES (kPa)

TRIMCLAD® THICKNESS BMT (mm)	LIMIT STATE	SPAN TYPE	SUPPORT THICKNESS (mm)	SPAN (mm) 450	600	900	1200	1500	1800	2100
0.42	SERVICEABILITY	Internal	All	7.00	5.39	5.12	3.88	2.94	2.14	***1.75***
		End	All	6.41	4.60	4.43	3.24	***2.41***	***1.72***	***1.30***
	STRENGTH NO CYCLONE CAPS	Internal	≥ 0.75	7.68	5.49	3.29	2.19	1.75	1.46	***1.25***
		End	≥ 0.75	7.00	4.75	2.83	2.00	***1.59***	***1.33***	***1.14***
	STRENGTH WITH CYCLONE CAPS	Internal	≥ 1.0	9.87	9.87	6.52	4.84	3.63	2.82	***2.25***
			0.75	8.77	8.77	5.85	4.39	3.51	2.82	***2.25***
		End	≥ 1.0	9.00	9.00	5.95	4.41	***3.21***	***2.50***	***2.05***
			0.75	7.89	7.89	5.26	3.95	***3.16***	***2.50***	***2.05***
0.48	SERVICEABILITY	Internal	All	7.13	5.31	4.93	3.95	3.24	2.78	1.95
		End	All	6.41	5.60	3.93	3.58	3.24	2.37	***1.63***
	STRENGTH NO CYCLONE CAPS	Internal	≥ 0.75	9.87	7.31	4.74	3.46	2.71	2.22	1.86
		End	≥ 0.75	9.00	6.57	4.26	3.15	2.45	2.07	***1.70***
	STRENGTH WITH CYCLONE CAPS	Internal	≥ 1.2	9.16	9.16	9.16	6.58	4.76	3.54	2.68
			1.0	8.77	8.77	8.77	6.58	4.76	3.54	2.68
			0.75	5.85	5.85	5.85	4.39	3.51	2.95	2.51
		End	≥ 1.2	8.35	8.35	8.35	6.00	4.15	3.10	***2.44***
			1.0	7.89	7.89	7.89	5.92	4.15	3.10	***2.44***
			0.75	5.26	5.26	5.26	3.95	3.16	2.63	***2.26***

Product Name

METROLL TRIMCLAD ROOF CLADDING

Product Description

Metroll Trimclad is manufactured from G550 colour coated steel or Zincalume coated steel (AM125). In some locations galvanised (Z450) may also be available.

Manufacturer's Details

Metroll Queensland Pty. Ltd. t/as Metroll Darwin
81 Marjorie Street, Pinelands NT 0828
ABN 17 010 035 266

Design Criteria

These tables shall be used in conjunction with wind loads calculated using AS/NZS 1170.2.2021.

Limitations

1. This Deemed to Comply (DTC) sheet is for roof applications and can be used for walling applications by excluding foot traffic limitations.
2. The values listed in this table are only valid for the Low-High-Low pressure sequence within Part H1D7 of the NCC 2022 Building Code of Australia - Volume Two.
3. The maximum permissible free edge overhang is: 150mm for 0.42mm material and 200mm for 0.48mm product from the screw line.
4. The maximum permissible stiffened edge overhang is: 300mm from the screw line for 0.42mm material and 350mm for 0.48mm product.
5. Sheeting span can be limited by maximum batten spacing.
6. It is essential that the relevant deemed to comply information for the batten product is used in conjunction with this sheet.

Accepted for inclusion in Deemed to Comply Manual

DTCM drawing number: M/484/01-01

Notes covering basis of DTC (Relevant test reports etc)

This table has been produced by Ask Johnny Mac. It is based on the low-high-low testing completed at the cyclone testing station, James Cook University. The results of these tests are outlined in the test reports 710, 738, 767 and 936 produced by the CTS. Ultimate cyclic wind load strength tests were NATA accredited tests. Additionally, test 1337 covers impact testing for roofs less than 30 degree pitch in Region C.

All product tested to AS 4040.1:1992, AS 4040.3.2018 and Low-High-Low to Part H1D7 of the NCC Building Code of Australia – Volume two. Tests carried out on the cyclonic air box rig for strength wind resistance. Serviceability values taken from the Metroll Technical Manual derived from static testing.

***Checking Engineers Certification:**
Tenstatik
NAME: Stefan Tschirren
REGISTRATION No: RPEQ 19279
DATE: 29/05/2026
SIGNATURE:

***Certifying Engineers Certification:**
Northern Consulting Engineers
NAME: Timothy R Messer
REGISTRATION No: NT 116373ES
DATE: 29/05/2026
SIGNATURE:
Digitally signed by Timothy Roy Messer
DN: cn=Timothy Roy Messer, o=Northern Consulting Engineers, email=tim@nceng.com.au
Date: 2026.06.02 12:22:35 +10'00'

Chairperson Signature:

Chairperson Name: Elisha Harris

Date of Approval: 11/06/2026 Expiry Date: 11/06/2031

Date approved 04 June 2025