TARC 5-Rib

PURPOSE

The Architectural Roofing Company (TARC) supplies TARC 5 Rib as a roof and wall cladding.

EXPLANATION

TARC 5 Rib is a 5 Rib long-run roof and wall cladding product. Manufactured by TARC using New Zealand Steel.

Available in a range of Colorsteel and Colorcote colours to withstand NZ's conditions.

The steel is supplied with different protective coatings to withstand NZ's exposure zones.

- > Colorsteel® Endura®
- > Colorsteel® Maxx®
- > Colorcote Zinacore
- > Colorcote Magnaflow

They are available in the following sizes:

- > Thickness (mm): 0.40 and 0.55mm
- > Width Thickness (mm): Cover 770mm,

Sheet - 830mm

SCOPE AND LIMITATIONS OF USE

cope Limitations		
Location		
In all wind zones as defined in NZS 3604:2011 and in all calculated design loads.	 TARC 5 Rib load spans apply in wind zones up to and including extra high. Where the calculated design loads exceed 2.5kPa the engineer must satisfy themselves that the product, pitch and fixings will meet the conditions. 	
In all exposure zones as defined by NZS 3604:2011.	 In exposure Zone D only Colorsteel Endura or Colorsteel Maxx may be used. For use in "Microclimatic considerations" (as defined in Sec 4.2.4) refer to TARC. 	
On buildings located any proximity to a relevant boundary.	> TARC 5 Rib is non-combustible.	
Building		
On timber or steel structural framing.	> Where TARC 5 Rib is used in an insulated building and in conjunction with steel framing, a thermal break is required.	
In conjunction with a primary structure that complies with the NZ Building Code or where the designer has established that the existing structure is suitable for the intended building work.	> Building height is limited by the TARC 5 Rib design load span tables (refer to: www.tarc.co.nz) or specific engineering, where applicable.	
As a wall cladding.	 TARC 5 Rib must always be installed over a drained and ventilated cavity unless the building is unlined. When installed Vertically it may direct-fixed dependent on the risk score calculation per E2/AS1 risk matrix methodology. Flashings, flexible and rigid building underlays and TARC 5 Rib fixings must be in accordance with E2/AS1 and NZMRM Code of Practice. 	
	> Contact with other materials must be in accordance with E2/AS1 and NZMRM Code of Practice (V3.0).	
As a roof cladding.	> TARC 5 Rib requires a minimum roof pitch of 3° for lengths ≤40m. When the combined sheets have a length of between 40 and 60m the roof pitch should be increased by 1°. When rainfall intensity exceeds 100mm/hour the minimum pitch needs to be a further 1 degree for every 10 metres of sheets over 40m.	
	> A potable water collection system may be installed.	
	> Flashings, flexible and rigid building underlays and TARC 5 Rib fixings must be in accordance with E2/AS1 and NZMRM Code of Practice (V3.0).	
	 Contact with other materials must be in accordance with E2/AS1 and NZMRM Code of Practice (V3.0). 	

PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all TARC requirements, TARC 5 Rib will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	BASIS OF COMPLIANCE	
	Compliance statement ¹	Demonstrated by
B1 Structure B1.3.1, B1.3.2, B1.3.3 (a, b, c, d, g, i)	ACCEPTABLE SOLUTION B1/AS1	> AS/NZS 1397:2011.> AS/NZS 1170:2002 (for span tables).
B2 Durability B2.3.1 (b) B2.3.2 (b)	ACCEPTABLE SOLUTION B2/AS1	> Coated in accordance with AS/NZS 2728:2013 (cited in E2/AS1).
C3 Fire Affecting Areas Beyond the Fire Source C3.4 (a), C3.7 (a)	ACCEPTABLE SOLUTION C/AS1 C/AS2 1st edition, June 2019	 > Steel is non-combustible. > BRANZ (FH 6102-TT, dated 3/1/2017) (Material Group 1-S). > BRANZ is accredited to perform ISO 5660 test.
E2 External Moisture E2.3.1, E2.3.2, E2.3.7 (a, b, c)	ACCEPTABLE SOLUTION	> NZMRM Code of Practice (V3.0).
F2 Hazardous Building Materials F2.3.1	ALTERNATIVE SOLUTION	 Coating system is inert once dry. Colorsteel® safety data sheet.

^{1.} The above statement shows we have met their obligations under s14G(2) of the Building Act 2004.

Other performance	BASIS OF STATEMENT		
statement	Performance statement	Demonstrated by	
TARC 5 Rib will not contaminate potable water.	AS/NZS 4020:2005	 Claimed by manufacturer: NZ Steel. BRANZ statement that metal roof suitable refer to www.level.org. nz/water/water-supply/mains-or-rainwater/harvesting-rainwater. 	

NZ STEEL ASSURANCE

As the manufacturer of the steel, from which TARC 5 Rib is fabricated, NZ Steel provides assurance that the steel:

- > has been manufactured in accordance with AS 1397:2001
- > is coated in accordance with AS/NZS 2728:2013 or galvanized in accordance with AS/NZS2312.2:2014.

NZ Steel has established an Environmental Management System certified to ISO 14001.

For more information on the specific exposure zones and environmental impacts of the product refer to www.colorsteel.co.nz.

SOURCES OF INFORMATION

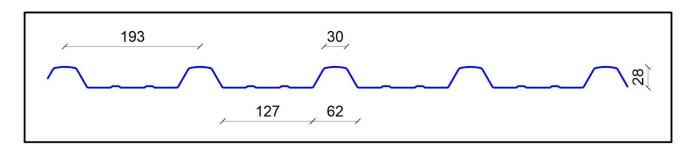
- > AS/NZS 1170:2002. Structural design actions.
- > AS/NZS 1397:2001. Steel sheet and strip—Hot-dip zinc coated or aluminium/zinc-coated.
- > AS/NZS 2728:2013. Prefinished/pre-painted sheet metal products for interior and exterior building applications.
- BRANZ www.level.org.nz/water/water-supply/mains-or-rainwater/ harvesting-rainwater.
- > NZ Metal Roof Manufacturers (NZMRM): Code of Practice (V3.0) #
- NZ Steel. Technical Bulletin. [August 2016]. Fire testing. Fire testing of Coated Steel Products.

For more information visit www.tarc.co.nz

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TARC 5-Rib

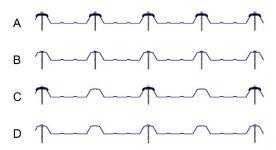
5-Rib is a popular and versatile 5 Rib trapezoidal roofing profile. 5-Rib can be used in both commercial and residential applications. 5-Rib can be used as both a roof or wall cladding and can be used on roof pitches down to 3 degrees.

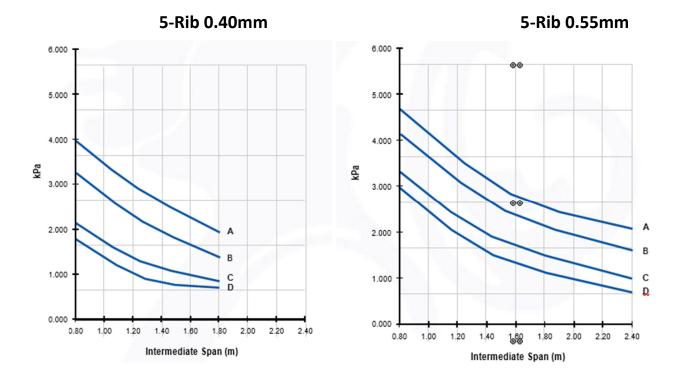


Recommended Fixings:

Timber: 12G x 65mm or 14G x 75mm with load spreading washer

Steel: 12G x 55mm with load spreading washer





Note: Intermediate spans shown in the graphs are based on G550 Steel as the base material.