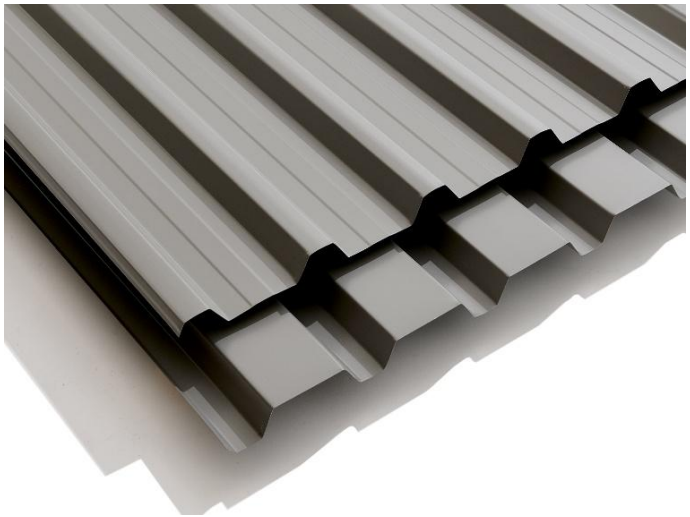
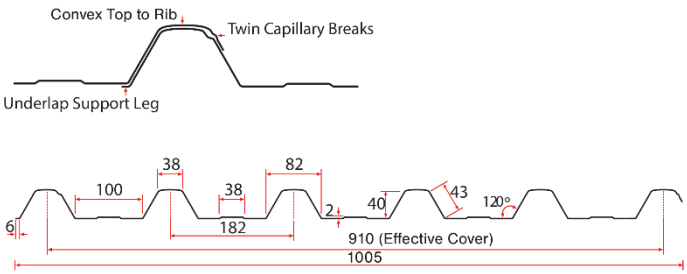
PRODUCT TECHNICAL STATEMENT



MULTIRIB®



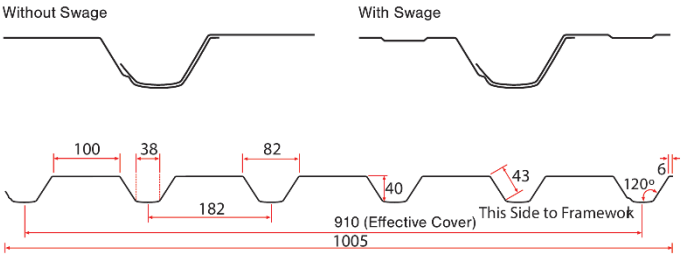
MULTIRIB®



All dimensions are nominal, in mm. Sheet cover width tolerance +/-5mm.

MULTIRIB® REVERSE RUN

For wall cladding options only



Without Swage - A swaged pan is available and is recommended. Refer canning statement - Multirib® Product Technical Statement at www.roof.co.nz

DESCRIPTION

Multirib® is a truly multifunctional long run roofing and cladding profile, designed primarily for industrial and commercial applications, and also suitable where long length sheeting is required for low pitch commercial and residential projects.

Exclusive to Roofing Industries, and with machinery positioned nationally, Multirib® provides numerous benefits to building designers as a 'one profile fits all' solution and is supported by extensive load testing.

Recognised for its superior concentrated load and wind uplift performance, Multirib® has been installed on many larger scale prestige projects with a number of these incorporating DRI-CLAD® drip resistant fleece technology. Multirib® is also utilised as an integral component in RoofLogic® insulated warm roof systems.

Where used in wall cladding applications, Multirib® can also be manufactured and supplied as both horizontal and vertical 'traditional' or 'reverse run' options.

FEATURES

- Convex ribs provide strength and water runoff away from the fixings.
- Twin capillary breaks on the side lap.
- Purpose designed underlap leg provides support to the underlap.
- Steeply angled ribs provide strength, large spans and aesthetics.
- Excellent water carrying capacity.
- Installers can walk in the profile pans thereby avoiding damage to the ribs.
- Innovative profile design, supported by wind and concentrated load/span data and recommended fastener patterns derived from load testing using industry test-rig apparatus in accordance with the NZ Metal Roofing Manufacturers (MRM) test procedure.
- Can be 'reverse run' and the swage removed for use as a wall cladding. Lap can be altered in the reverse run option for improved aesthetics.
- Rib spacing allows narrow flashings to be used, improving aesthetics and cost effectiveness.
- Suitable for commercial and residential projects, in roofing and wall cladding applications.
- Matching accessories are available including natural lighting, flashings, fasteners, underlays, DRI-CLAD® drip-resistant fleece and EZI-FLO™ guttering and downpipe systems.

Manufacturing Locations: Auckland, Palmerston North, Christchurch and Invercargill



MINIMUM PITCH

The minimum roof pitch for Multirib® is 3 degrees (approx. 1:20).

Designers should consider increasing the roof pitch above minimum to consider the cumulative effect of deflections from framing, purlins and roof sheeting or penetrations, and potential for building movement over time.

For curved roofing, the roof cladding must not terminate at a pitch lower than permitted above. Side laps of curved sheets must be sealed on any areas below the minimum pitch permitted above.

SHEET LENGTHS

Custom-made cut to length sheets can be manufactured to over 40m in length, subject to transport and site limitations. As sheet lengths increase higher transportation costs may be applicable, and sheet lengths over 28 metres require specialised transportation.

For aluminium substrate, maximum recommended sheet lengths are 10-12 metres for dark colours and 12-15 metres for plain and light colours. Refer to the Thermal Movement Provisions section.

Contact Roofing Industries for specific project advice regarding sheet lengths and transport requirements.

COATINGS

Selecting the right substrate is dependent on the environment in which the project is situated. Multirib® is available in the following Pacific Coilcoaters and New Zealand Steel materials, along with the full range of ColorCote® and COLORSTEEL® colours.

Steel Substrate

Base Metal Thickness (BMT): 0.40mm & 0.55mm

- ColorCote® ZinaCore™
- ColorCote® MagnaFlow™
- COLORSTEEL® Maxam®

Aluminium Substrate

Base Metal Thickness (BMT): 0.90mm

- ColorCote® AlumiGard™
- COLORSTEEL® Altimate®

Refer to Pacific Coil Coaters and New Zealand Steel literature for environmental zones, coating systems and warranty information.

Material is subject to availability and other materials such as copper, titanium zinc, etc. may have longer lead times. Contact Roofing Industries for specific advice.

INFORMATION TABLE

Substrate Material	Steel*		Aluminium
Base Metal Thickness, BMT (mm)	0.40	0.55	0.90
Weight per lineal metre (kg/m)	4.05	5.48	3.07
Maximum Sheet Overhang[1] (mm)	250	350	300
Drape Curved Roof Minimum Radius (m)	N/R	85	85
Purlin Spacings for Drape Curved Roofs			
Maximum Intermediate Spans (mm)	N/R	2400	2400
Maximum End Spans (mm)	N/R	1600	1600

N/R = Not Recommended *Based on 150g/m² alloy coating All weights are approximate

[1]From last fixing line to sheet end: Not suitable for roof access without additional support.

Reverse run Multirib® is recommended in 0.55mm BMT steel and 0.90mm BMT aluminium options. Where using 0.40mm BMT steel, the addition of swages is recommended to greatly reduce the likelihood of canning.

Reverse run Multirib® is recommended to be supplied with strippable film.

Pre-curved roofing options are not available for Multirib®.

FIRE TESTING

Refer to Pacific Coil Coaters and New Zealand Steel bulletins for fire testing of ColorCote® and COLORSTEEL® products, which can be supplied on request.

SPECIFICATION

Refer to Roofing Industries full specification statements on Masterspec and/or Smartspec, www.roof.co.nz and our Selection Guide.

SOLAR INSTALLATIONS

Rib fixed solar panels can be used with Multirib®. These are required to be specifically designed and installed to solar manufacturers recommendations.

For further information, refer to the MRM Roof and Wall Cladding Code of Practice (MRM COP), Pacific Coil Coaters and New Zealand Steel bulletins for the use of solar installations with ColorCote® and COLORSTEEL® products.

BUILDING DESIGN / PERFORMANCE CRITERIA / PRODUCT SELECTION

During the design phase, it is necessary for the designer to consider a number of factors when specifying Multirib®:

- Material type and finish
- Roof pitch
- Sheet lengths
- Wind loadings
- Load span performance (Refer to the Load Span Graphs section)
- Reference to Roofing Industries detail drawings
- Swaged or non-swaged (for reverse run)
- Purlin and nogg/girt spacing

Underlay as per the project specifications should be used to meet NZS 2295 and/or AS/NZS 4200 standards, in accordance with the underlay manufacturers recommendations. Where the roof pitch is 10 degrees and above, self-supporting underlay is recommended (without any support) and purlin spacings must be limited to a maximum of 1.2m centres for vertically run underlay and 1.05m centres for horizontally run underlay. Where the roof pitch is less than 10 degrees, underlay must be fully supported with a corrosion resistant material.

For buildings designed in accordance with E2/AS1 and cladding products covered by that document are chosen, the design spans are required to comply with E2/AS1. However, where a building is outside of the scope of E2/AS1, the building and parts thereof require specific design by a suitably qualified structural engineer and the roofing and cladding design spans (purlin and nogg/girt spacing) are required to be suitable for that design.

Whilst aesthetics and product availability do play a part, the chosen profile must meet certain performance criteria. These are centred around the ability of the product to span between purlin and nogg/girt spacings and meet the design criteria.

Where reverse run Multirib® is considered, the absence of swages can produce a visible waviness, or undulations known as canning. These are considered to be an architectural feature of the profile. Multirib® can be manufactured with the addition of swages to assist in reducing undulation if required. Inclusion/exclusion of swages must be specified at time of order.

Normally, structural integrity is not affected by canning. However, structural integrity must be reviewed if the distortion results from an extreme external influence.

Since many factors are involved outside of our control, Roofing Industries cannot realistically assure the total elimination of undulation in the pan. Low gloss paint coatings are also available which assist in minimising the visual apparentness of any undulations and must be specified at time of coil ordering. Refer also to the Canning Section.

Where an aluminium substrate is used, steel netting cannot be used where it may be in contact (either directly or through underlay degradation) with the aluminium roofing or cladding. Alternative materials such as plastic strapping are to be used where support is required, or the cladding separated from the underlay by a high-

density plastic batten, drainage matt or similar, and the use of an aluminium gutter flashing. This is also applicable to coated metal and zinc roofing in severe marine applications. In all cases self-supporting paper should be used, including when support is required. Refer to section 14.19 of the MRM COP.

Green (or wet) timber contracts as it dries, resulting in shrinkage. Only install into timber when the moisture content is 18% or less (i.e. the maximum moisture content as specified in NZS 3604 and the MRM COP). Multirib® must be isolated when laid directly on timber battens, plywood or other incompatible materials using a suitable isolator in-between.

All fixings and fasteners are to be of an approved type, compatible with all materials, the environment and must meet the requirements of the NZ Building Code. Refer to E2/AS1, and the MRM COP. Installation is to be in accordance with the MRM COP and manufacturers literature.

PURLIN/GIRT SPACING LIMITATIONS AND RECOMMENDATIONS

E2/AS1 states that a specific design may produce a more optimum spacing for fixing than as presented in this document. For Multirib® this is particularly applicable, and the manufacturer's information should be used. Manufacturers' recommendations for maximum spacings are as determined by testing carried out to methodology in the MRM COP.

For most roof installations purlin spacings will be determined by the trafficable or wind load criteria whichever is the lower limiting factor. However, for roofs that are not able to be walked on (non-trafficable) and for wall cladding applications, these limitations may be exceeded providing the design wind loading criteria is met. However, caution is recommended as additional secondary fasteners may be required in the profile side laps.

The designer should consider reducing purlin spacings accordingly in areas of heavy roof traffic, snow loadings or where the roofing supports plant items such as air conditioning units. For curved roofing limitations, refer to the Information Table.

For wall cladding on buildings within the scope of NZS 3604 using, a.) cavity construction, a maximum batten spacing of 800mm is recommended to balance aesthetics and practicality, or b.) direct fixed vertical sheeting, using E2/AS1 as guidance for direct fixed profiles, a maximum nogg/girt spacing of 480mm is required to comply with E2/AS1 Clause 9.1.1.5. However, the Uniform Load Span Graphs must also be checked for the given Wind Zone and nogg/girt spacing. For buildings outside the scope of NZS 3604 (unlined warehouses, sheds etc.), refer to the Uniform Load Span Graphs section.

Multirib® sheets must be fixed into **all** purlins and girts (and all noggs/top/bottom plates for timber/steel framing).

WIND LOADINGS

Firstly, it is necessary for the designer to calculate the design wind load for the roofing and wall cladding following accepted practice, by reference to AS/NZS 1170, NZS 3604 and/or the NASH Light Steel Framed Buildings standard as appropriate. For further explanation, refer to the MRM COP.

The wind uplift and suction forces on Multirib® roofing and cladding are transferred through to the building via the fasteners into the structure. The performance criteria are the number of fasteners per square metre, which can be varied by the spacing of purlins and noggs/girts, or the number/spacing of fasteners per sheet width.

SNOW LOADINGS

When the possibility of snow exists, it is necessary for the designer to allow for the complexities of imposed snow loads including snowdrift due to wind. Snow loads for a project can vary by region and altitude, refer to the MRM COP for snow loads and the snow loadings map.

Design can be achieved by increasing the strength of the structure and/or minimising the buildup of snow (commonly increasing the roof pitch to allow ease of snow shedding). Snow loads are treated as uniformly distributed loads, similar to wind loads.

UNIFORM & CONCENTRATED LOAD SPAN GRAPHS

Loadings referred to in Roofing Industries Multirib® graphs are the result of testing to serviceability (SLS) and ultimate (ULS) limit states in accordance with MRM test procedures and using MRM test apparatus, utilising variations in fasteners and fixing patterns, covering both roofing and cladding applications. Refer to the MRM COP for fixing classification types.

The Design Graphs are presented in a form to allow the designer/engineer to select suitable products and maximum purlin spacings, outlining guidance for Multirib® fixing requirements for buildings within the scope of NZS 3604 and the NASH Light Steel Framed Buildings standard, up to Extra High Wind Zones. Refer also to the notes in the graphs.

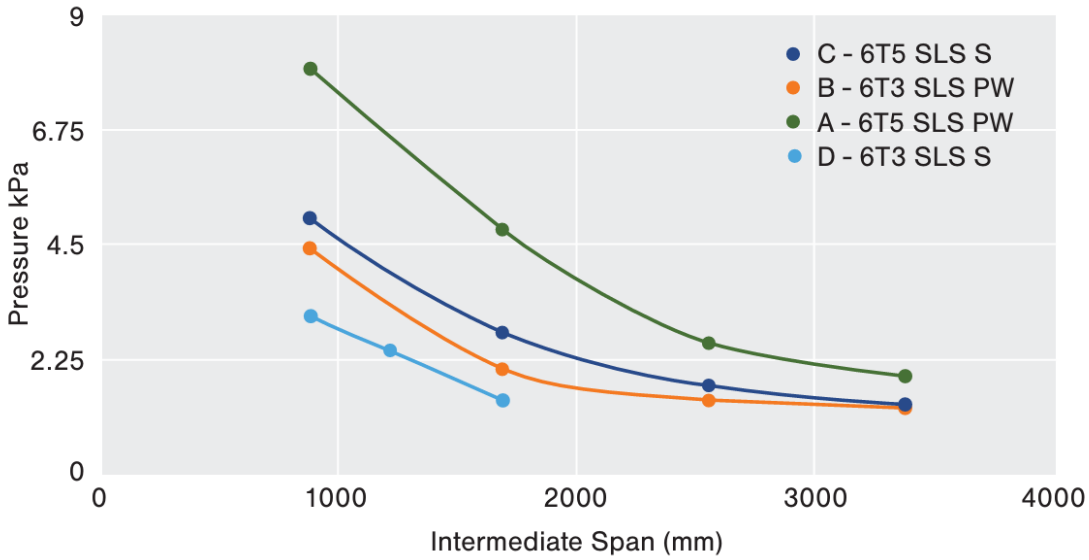
SED Wind Zones require specific design by a suitably qualified structural engineer. Fixing types, embedment, pullout, etc. need to be checked with the fastener manufacturer to ensure design loads are met.

For commercial and industrial roofing applications, 0.55mm BMT steel or 0.90mm BMT Aluminium is recommended for robustness, particularly to damage by other trades.

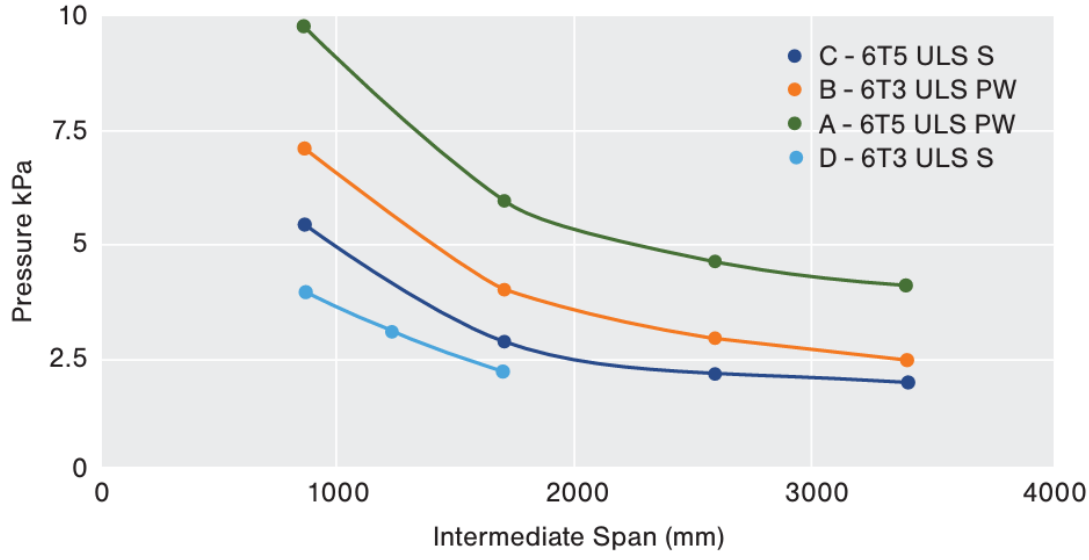
ROOFING APPLICATION – UNIFORM & CONCENTRATED LOAD SPAN GRAPHS

Steel-based Material G550 High Strength

Multirib® x 0.40mm Serviceability Limit State (SLS)



Multirib® x 0.40mm Ultimate Limit State (ULS)



Notes:

- End spans to be a maximum of 2/3 of intermediate spans.
- Fixing patterns illustrated A, B, C, and D in the graphs are detailed in the Roofing Application – Primary Fixing Methods section.
- The preceding load span graphs and maximum foot traffic spans following are applicable to steel-based substrates. For other substrates, contact Roofing Industries.

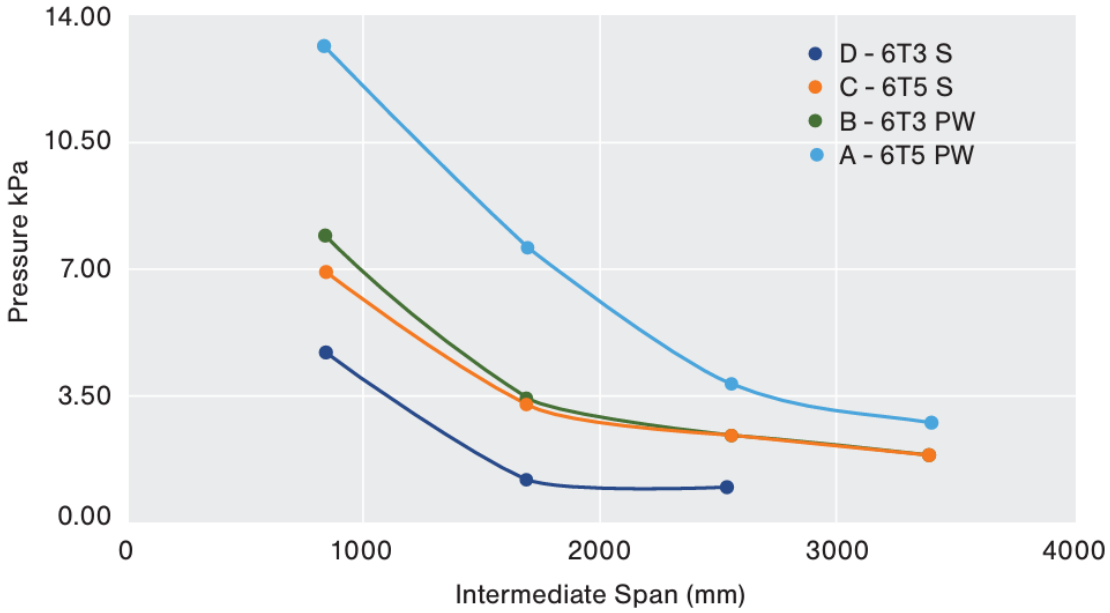
Multirib® x 0.40mm Maximum Foot Traffic Spans (mm)

Classification Type (MRM COP)	Intermediate Spans	End Spans
Unrestricted Traffic	1200	800
Restricted Traffic	3300	2200
Non-Trafficable	3300	2200

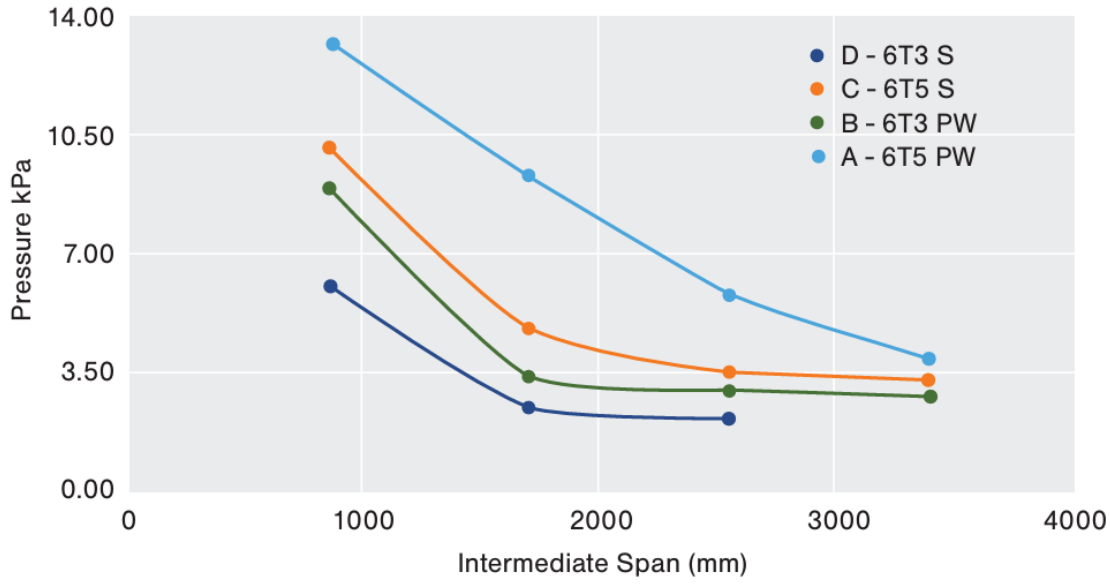
ROOFING APPLICATION – UNIFORM & CONCENTRATED LOAD SPAN GRAPHS

Steel-based Material G550 High Strength

Multirib® x 0.55mm Serviceability Limit State (SLS)



Multirib® x 0.55mm Ultimate Limit State (ULS)



Notes:

- End spans to be a maximum of 2/3 of intermediate spans.
- Fixing patterns illustrated A, B, C, and D in the graphs are detailed in the Roofing Application – Primary Fixing Methods section.
- The preceding load span graphs and maximum foot traffic spans following are applicable to steel-based substrates. For other substrates, contact Roofing Industries.

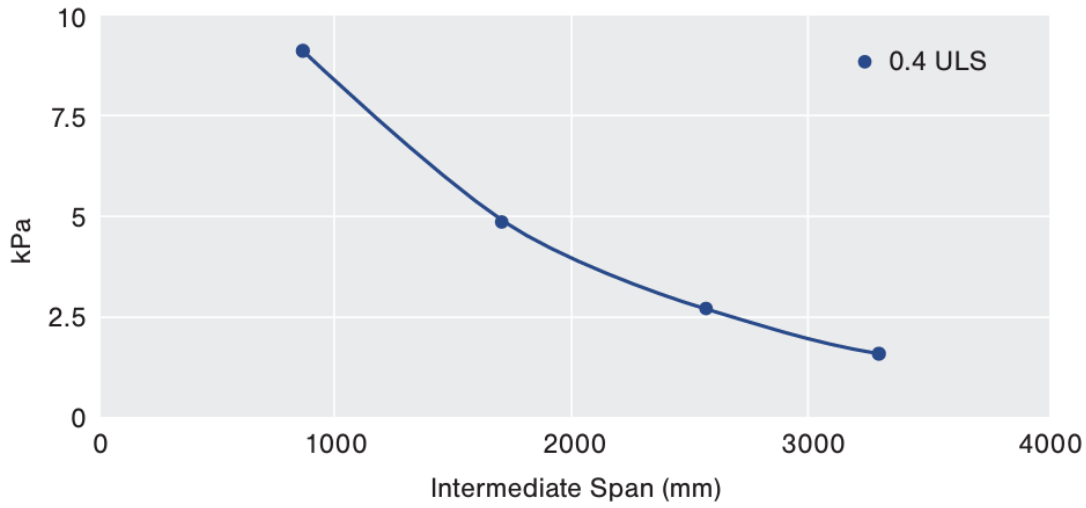
Multirib® x 0.55mm Maximum Foot Traffic Spans (mm)

Classification Type (MRM COP)	Intermediate Spans	End Spans
Unrestricted Traffic	1700	1100
Restricted Traffic	3400	2250
Non-Trafficable	3400	2250

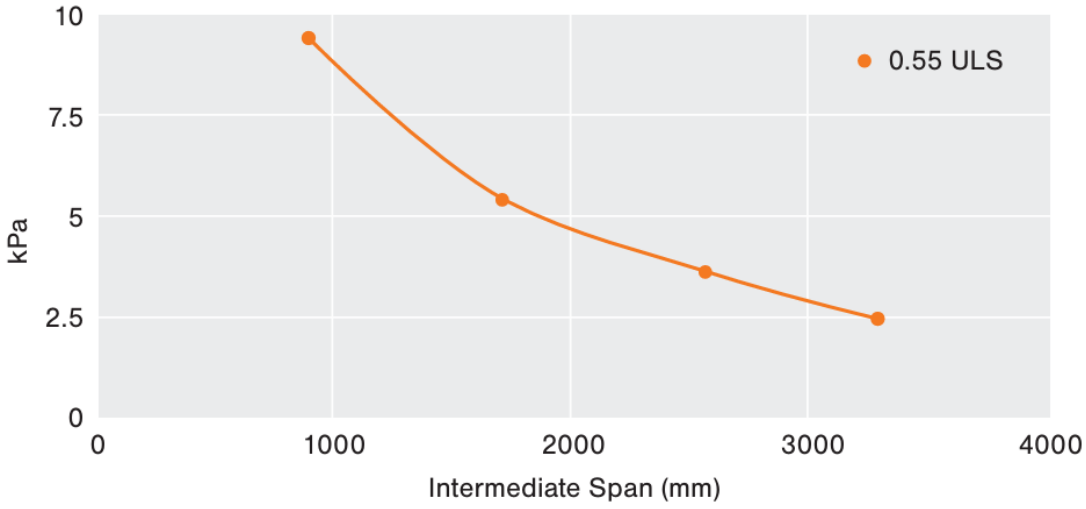
WALL CLADDING APPLICATION – UNIFORM LOAD SPAN GRAPHS

Steel-based Material G550 High Strength

Multirib® x 0.40mm Ultimate Limit State (ULS)



Multirib® x 0.55mm Ultimate Limit State (ULS)



Notes:

- End spans to be a maximum of 2/3 of intermediate spans.
- Fixing patterns are detailed in the Wall Cladding Application – Primary Fixing Methods section.
- Serviceability graphs are not published as serviceability failure was not observed from testing with respect to permanent deformation around wall fasteners. Where wall cladding deflections are to be considered in design, contact Roofing Industries for guidance.
- The preceding load span graphs are applicable to steel-based substrates. For other substrates, contact Roofing Industries.

ROOFING APPLICATION – PRIMARY FIXING METHODS

Multirib® G550 High Strength Steel

A Fixed every purlin on every rib with approved screws and neos, load spreading profiled metal washers and EPDM washers.



B Fixed every purlin with the same pattern, (hit-miss-hit-hit-miss-hit) with approved screws and neos, load spreading profiled metal washers and EPDM washers. Fix every crest to End Purlins, Ridge, Hip, Valley, Gutter & Periphery areas.



C Fixed every rib with approved screws and neos and or alloy embossed washers.



D Fixed every purlin with the same pattern, (hit-miss-hit-hit-miss-hit) with approved screws and neos and or alloy embossed washers. Fix every crest to End Purlins, Ridge, Hip, Valley, Gutter & Periphery areas.



Notes:

- Other fixing patterns may be used, however these will alter the design capability and require specific design by a suitably qualified structural engineer.
- For drape curved roofing, the first two purlins at each end of the sheet should be fixed using profile metal washers and EPDM seals to every crest, with the balance of the roof fixed as above.

WALL CLADDING APPLICATION – PRIMARY FIXING METHODS

Multirib® G550 High Strength Steel

Fixed every pan with approved 12 gauge screws and neos.

Traditional Multirib®



Reverse Run Multirib® Cladding



Notes:

- Other fixing patterns may be used, however these will alter the design capability and require specific design by a suitably qualified structural engineer.
- Reverse run Multirib® is recommended in 0.55mm BMT steel and 0.90mm BMT aluminium options. Where using 0.40mm BMT steel, the addition of swages is recommended to greatly reduce the likelihood of canning.
- Reverse run Multirib® is recommended to be supplied with strippable film.

PRIMARY FIXING CHART

Roofing - Crest fixed

	Timber Purlins	Steel Purlins up to 1.5mm	Steel Purlins 1.5mm-4.5mm	Washers (When required)
Steel-based Material	14-10x75 Class 5 Timber screws with neos, or 14-10x100 Class 5 Timber screws with neos	12-14x65 Class 5 Steel screws with neos	12-14x65 Class 5 Steel screws with neos	Multirib® load spreading profile Steel washer & 36mm EPDM
Aluminium-based Material	14-10x73 Aluminium screws with neos through a 10mm dia. clearance hole with Multirib® load spreading profile 1.2mm Ali washer & 36mm EPDM, or Stainless steel grade 304, 14-10x100 Timber screws with neos through a 10mm dia. clearance hole with Multirib® load spreading profile 1.2mm Ali washer & 36mm EPDM	Stainless steel grade 304, 14-14x70 Steel screws with neos through a 10mm dia. clearance hole with Multirib® load spreading profile 1.2mm Ali washer & 36mm EPDM	Stainless steel grade 304, 14-14x70 Steel screws with neos through a 10mm dia. clearance hole with Multirib® load spreading profile 1.2mm Ali washer & 36mm EPDM	Multirib® load spreading profile 1.2mm Ali washer & 36mm EPDM

Wall Cladding - Pan fixed

	Timber Noggs	Steel Girts up to 1.5mm	Steel Girts 1.5mm-4.5mm	Washers (When required)
Steel-based Material Direct Fixed	12-11x40 Class 5 Timber screws with neos	12-14x20 Class 5 Steel screws with neos	12-14x20 Class 5 Steel screws with neos	
Steel-based Material 20mm Cavity	12-11x55 Class 5 Timber screws with neos	12-14x45 Class 5 Steel screws with neos	12-14x45 Class 5 Steel screws with neos	
Aluminium-based Material Direct Fixed	12-12x35 Aluminium screws with a 19mm Ali EPDM bonded washer, into a pre-drilled pilot hole through sheeting and into timber	Fixing directly into steel girts is not recommended. Use 12-12x35 Aluminium screws with a 19mm Ali EPDM bonded washer, into a pre-drilled pilot hole through sheeting and fixed into timber strapping (structural 45mm deep strapping, fixed into steel girts to engineer's design)		19mm Ali EPDM bonded washer
Aluminium-based Material 20mm Cavity	14-10x55 Aluminium screws with a 19mm Ali EPDM bonded washer, into a pre-drilled pilot hole through sheeting and into timber	Fixing directly into steel girts is not recommended. Use 12-12x35 Aluminium screws with a 19mm Ali EPDM bonded washer, into a pre-drilled pilot hole through sheeting and fixed into timber battens (structural castellated 45mm deep battens, fixed into steel girts to engineer's design)		19mm Ali EPDM bonded washer

Notes:

- Primary fixing requirements are for buildings within the scope of NZS 3604 up to Extra High Wind Zones.
- Primary fasteners are to have a minimum 30mm embedment into structural timber purlins, battens or timber framing; or minimum 3 threads showing from the underside of steel purlins/girts; adjusting fastener length where using non-structural battens, load spreading profile washers, etc. to account for the extra thickness of components.
- Where load spreading profile washers are used to fix roofing sheets, 25mm aluminium embossed washers and an appropriate screw fixing regime must also be used to fix all ridging, roof flashings, etc.
- Where 19mm aluminium EPDM bonded washers are used to fix wall cladding sheets, the same washers and an appropriate screw fixing regime must also be used to fix flashings, etc.
- Class 5 (Category 5) fasteners are to be used with steel-based material in all environments.
- To be read in conjunction with Thermal Movement Provisions, Load Span Graphs and Primary Fixing Methods.
- Secondary fasteners are to be used in accordance with the MRM COP.

FRAME TOLERANCE

It is important that the structure is suitable for installation of the metal roofing and wall cladding.

Particular attention to the straightness and squareness of the structure and alignment of the purlins, noggs/girts and framing is required, and to be within acceptable tolerance.

Prior to installation, the installer is to consider sheeting set out, for example to accommodate roof and wall penetrations, roof lights, windows and doors.

For timber framed construction, during installation the installer must check alignment of the framing using a string line or straight edge, particularly around penetrations to ensure the framing is plumb and true. Where sheets are cut, for example to accommodate corners and around penetrations, etc. they require packers to support the flashings. Multirib® laid directly onto framing or cavity battens requires alignment of the noggs/battens to be within +/- 5mm tolerance to mitigate batten creasing (tighter tolerance may be required for aesthetic finishes).

CANNING

Canning is the visible waviness or undulations in the flat areas of metal roof cladding, wall cladding or wide flat panel flashings. This phenomenon occurs due to differential stresses which build up in the material, and as these stresses are relieved, undulations form leading to the characteristic waviness associated with canning.

The apparentness of these undulations can be affected by several factors such as the angle of viewing, direction and clarity of the light, sheet length, colour, temperature and the thickness of the material; some degree of distortion is inevitable in thinner gauge materials.

In addition, the high gloss levels of brand-new sheets can highlight these undulations but with time natural weathering reduces reflectivity which in turn reduces the visible effect of canning.

The property/building owner, builder and specifier must be aware that these undulations can occur in the flat areas of profiles. Please note canning is aesthetic in nature only and in general does not pose any structural issue or affect the performance or material warranty of the cladding.

To following material factors can assist in reducing the apparentness of canning,

- Use of thicker gauge materials
- Inclusion of stiffening swages
- Limiting the width of flat elements

Attention to detail during installation is also key to reducing canning, and it is important to inspect the alignment of the structure, check sheeting for straightness prior to installing, and ensure sheeting is fastened to Roofing Industries recommendations and industry standards. Refer to the Frame Tolerance, and Handling, Storage and Installation sections.

THERMAL MOVEMENT PROVISIONS

All metal roofing/cladding and flashings are subject to expansion and contraction caused by changes in temperature, and their design should allow for this movement. The energy produced should be absorbed without damage to the cladding, fixings or structure. Refer to www.roof.co.nz for recommendations for damage prevention and potential noise or waviness issues.

Noise resulting from thermal expansion and contraction of the Multirib® sheeting may be observed. This is a naturally occurring process and is normal to expect. Refer to Section 12.1.3 of the MRM COP and the Ministry of Business, Innovation and Employment (MBIE) Guide to Tolerances, Materials and Workmanship, 2015.

Where long length Multirib® sheets are used, thermal expansion/contraction must be considered. Aluminium is more sensitive to movement with temperature, with around twice the thermal movement of steel. Darker colours also expand/contract more than light colours.

Sheeting is fixed with the recommended fasteners and systems from the Primary Fixing Chart using the Primary Fixing Methods, and in addition allow for thermal movement in the following tables for steel and aluminium based materials where applicable.

Where sheet lengths are in excess of those shown in the tables, a step joint or other special provision for expansion is required. Contact Roofing Industries for guidance.

Steel-based Material				
E2/AS1 Compliance				
Sheet Lengths	**Up to 8m**	**8m – 12m**	**12m – 18m**	**> 18m**
	No Special Provision	Lower 50% of the roof to be fixed using oversized holes at fixing locations with approved load spreading profile washers & 36mm EPDM seals.		Not Applicable
MRM COP Compliance				
Sheet Lengths	**Up to 15m**	**15m – 18m**	**18m – 25m**	**25m – 30m**
Zincalume & Light Colours	No Special Provision		Solid fix from the ridge down 12m & use oversized holes for the remainder of the sheet with approved load spreading profile washers & 36mm EPDM seals, or approved 25mm Ali embossed washers.	Solid fix from the ridge down 12m & use oversized holes for the remainder of the sheet with approved load spreading profile washers & 36mm EPDM seals, or approved 25mm Ali embossed washers used down the entire sheet.
Dark Colours	No Special Provision	Solid fix from the ridge down 12m & use oversized holes for the remainder of the sheet with approved load spreading profile washers & 36mm EPDM seals, or approved 25mm Ali embossed washers.		Not Recommended

Aluminium-based Material				
Sheet Lengths	**Up to 10m**	**10m – 12m**	**12m – 15m**	**> 15m**
Plain Aluminium & Light Colours in Favourable Installations (Refer MRM COP Section 4.1.6)	Fix down the entire sheet using oversized holes with approved load spreading profile Ali washers & 36mm EPDM seals.			Not Recommended
Dark Coloured Aluminium in Favourable Installations (Refer MRM COP Section 4.1.6)	Fix down the entire sheet using oversized holes with approved load spreading profile Ali washers & 36mm EPDM seals.		Not Recommended	
Plain Aluminium & Light Colours in Unfavourable Installations (Refer MRM COP Section 4.1.6)	Fix down the entire sheet using oversized holes with approved load spreading profile Ali washers & 36mm EPDM seals.			
Dark Coloured Aluminium in Unfavourable Installations (Refer MRM COP Section 4.1.6)	Fix down the entire sheet using oversized holes with approved load spreading profile Ali washers & 36mm EPDM seals.	Not Recommended		

Note: Oversize holes to be 10mm diameter with fixings located centrally in the oversize hole.

TRANSLUCENT ROOFING

Where natural lighting is a feature, translucent Multirib® is available as roof and wall lighting and can be supplied in either single or multi-skin forms. For further information, contact the following suppliers who manufacture a full range of fibreglass and polycarbonate products:

- Alsynite One alsynite.co.nz
- Ampelite New Zealand ampelite.co.nz

STRIPPABLE FILM

Multirib® can be supplied with strippable film to give temporary protection from scratching, etc. Strippable film should be removed from underlaps while laying and removed entirely before UV sets the adhesive, making it difficult to remove without leaving glue residue on the sheet. Traffic across sheets should be kept to a minimum, particularly with self-supporting products.

HANDLING, STORAGE AND INSTALLATION

The following points, although not exhaustive, provide practical guidance to product handling storage and installation -

- Read the pack label for important guidance and inspect packs for any damage.
- Store Multirib® packs and accessories on site using evenly spaced and supportive dunnage, clear of the ground and under cover, to keep dry.
- Product surface protected with strippable film is to be stored under cover, away from UV light.
- If packs become wet and the product is not used immediately, separate the sheets to allow air circulation and drying.
- Do not drag sheets across each other or across rough surfaces.
- Other trades should be made aware of this by the main contractor.
- Installation is to be undertaken by suitably qualified installers experienced in the type of work being carried out, in line with acceptable trade practice.
- Flashings should be dressed appropriately with a hem, kick, bird's beak, and notched or folded down over ribs; all sheeting is to be edge fixed.
- Refer to the Multirib® detail drawings at www.roof.co.nz

For further guidance, refer to Roofing Industries Handling and Storage Guide, E2/AS1, the MRM COP and the MRM Metal Long Run Roofing and Cladding Installation Guide. Failure to install all products in accordance with industry requirements may void the warranty.

MAINTENANCE

Regular maintenance should be performed as necessary to remove dirt, salt and pollutants and extend the life of the roofing, cladding and accessories. Industry maintenance guides are available from www.roof.co.nz and should be considered to ensure warranty conditions are fulfilled.





BRANCHES

Branch	Address	Phone	Email
Auckland	(Head Office) 5 John Glenn Avenue, Rosedale, Auckland 0632	(09) 414 4585	auckland@roof.co.nz
Whangārei	17 Stan Semenoff Lane, Raumanga, Whangārei 0110	(09) 437 2040	northland@roof.co.nz
Pukekohe	212 Manukau Road, Pukekohe, Auckland 2120	(09) 238 0050	franklin@roof.co.nz
Hamilton	63 Tasman Road, Avalon, Hamilton 3200	(07) 849 5115	waikato@roof.co.nz
Tauranga	80 Portside Drive, Mount Maunganui 3116	(07) 578 2650	tauranga@roof.co.nz
Taupō	1101 Rakaunui Road, Rotokawa 3378	(07) 376 7971	taupo@roof.co.nz
Hawke's Bay	5 Poporo Way, Longlands, Hastings 4175	(06) 281 2586	hawkesbay@roof.co.nz
New Plymouth	11 Oropuriri Road, Waiwhakaiho, New Plymouth 4312	(06) 758 3003	taranaki@roof.co.nz
Palmerston North	653 Tremaine Avenue, Palmerston North Central, Palmerston North 4414	(06) 353 8480	central@roof.co.nz
Wellington	26 Jamaica Drive, Grenada North, Wellington 5028	(04) 238 4390	wellington@roof.co.nz
Blenheim	5 Kendrick Road, Riverlands 7274	(03) 934 5901	blenheim@roof.co.nz
Christchurch	12 William Lewis Drive, Sockburn, Christchurch 8042	(03) 339 2324	christchurch@roof.co.nz
Dunedin	33 Strathallan Street, South Dunedin, Dunedin 9012	(03) 455 4444	dunedin@roof.co.nz
Southern Lakes	3 Proctor Way, Cromwell 9310	(03) 928 6869	cromwell@roof.co.nz
Invercargill	133 Bill Richardson Drive, Avenal, Invercargill 9810	(03) 218 7663	invercargill@roof.co.nz

LIMITATIONS

Roofing Industries Limited, its directors, officers or employees, makes no representation or warranties about the information or design advice provided in these guidelines. The user is responsible for ensuring that the information, specifications and drawing details contained within these guidelines, and any materials referred to therein, are fit for the purpose for which they are intended to be used and shall comply with the relevant clauses of the New Zealand Building Code and for the environment in which it is used. Except as required by law, Roofing Industries Limited, its directors, officers or employees shall not be liable for any omissions, inaccuracies or errors in these guidelines, nor for any loss, claim or action incurred by any person as a result of using or relying on the information in these guidelines. Roofing Industries Limited reserves the right to change the information contained in these guidelines without prior notice. Copyright Roofing Industries Limited, Multirib® Product Technical Statement V2.1 November 2026.