

ALSYNITE®
TWIN WALL
5-RIB
Premium Profiled Polycarbonate Roof Sheet





Alsynite Premium Twinwall 5 Rib Polycarbonate Profiled Roofing

Alsynite Premium Twinwall 5 Rib Polycarbonate profiled roofing is the finest blend of science, engineering expertise, and the use of the most advanced extrusion equipment from PT Impack Pratama Industri TBK.

Alsynite Premium Twinwall 5 Rib is New Zealand's first trapezoidal Polycarbonate profiled Twin Wall sheeting, developed by us utilizing the finest Bayer Makrolon resin and extruding technology available. The result is a translucent roofing product designed for New Zealand conditions to combat our relatively high UV levels through a wide range of temperatures and conditions.

- **Modern and stylish with appealing aesthetics** not previously available in single Trapezoidal profiled polycarbonate roofing products.
- **Thermal and acoustic benefits** specifically designed for New Zealand conditions, particularly where condensation is a design consideration.
- **Suitable for use in interior applications.** The lean and sophisticated design will turn the space not just in recognition of the practical need for a modern workplace, but also conveying a fresh, friendly, intimate and elegant ambiance.
- Available in the following lengths: 1.8m, 2.4m, 3.0m, 3.6m, 4.2m 4.8m, 5.4m, 6.0m, 7.2m, 11.5m.
- Colours: Clear and Bronze

Features of Alsynite 5 Rib Polycarbonate

- Ease of Installation
- Thermal Values
- Effective Condensation Barrier
- NRC Values
- Aesthetically Pleasing
- Cost Efficient
- Excellent Impact Resistance
- Superior Rigidity
- Low Maintenance
- Lightweight
- Self-extinguishing

Applications

- Warehouses
- Canopies
- Walkways
- Carports
- Partitions
- Greenhouses
- Interior walls
- Pergolas
- Patios
- Gymnasiums
- Outdoor entertainment areas

Warranty

Alsynite 5 Rib has a 15 year loss of light transmission warranty. Please refer to the Alsynite 5 Rib warranty certificate for further details.



UV Protection

Alsynite 5 Rib has a co-extruded UV cap layer offering 99.9% protection from harmful UV radiation.



This co-extruded UV layer on Alsynite 5 Rib enhances the products durability preventing the sheet from premature yellowing, and subsequent discoloring.

Heat Transmission		Light Transmission	
Clear	86%	Clear	84%
Bronze	28.51%	Bronze	19%

NZBC Fire Group 1-S Rating

Alsynite 5 Rib Polycarbonate has been extensively tested using the full scale ISO 9705 room test. This extensive testing utilises a gas burner exposing the sheeting to 100kw for 10 minutes, and then 300kw for a further 10 minutes. Alsynite 5-RIB Polycarbonate achieves a NZBC 1-S Rating as flashover is not reached.





ALSYNITE® **TWINWALL 5-RIB** Premium Profiled Polycarbonate Roof Sheet

Product Specification

Thickness (mm)	6
Overall width (mm)	875
Effective cover (mm)	820
Rib height (mm)	35
Lengths available (m)	1.8, 2.4, 3.0, 3.6, 4.2, 4.8, 5.4, 6.0, 7.2, 11.5.
Colours	Clear, Bronze

6mm Profiled Twinwall	Clear	Bronze
Light Transmission	80%	42 %
Shading co-Efficient [mean average]	0.91	0.68
Solar heat gain w/m ² [mean average]	0.74	0.58
Service temperature	-40 to 100°C	820
R/Value	0.278	820
Thermal expansion per metre	3.5mm	
U – Factor w/m ²	3.6°C	

Installation

Each sheet is laid and fixed as per normal single sheet Polycarbonate roofing. The advantage of Alsynite 5 Rib Twinwall polycarbonate roofing is the ease of installation, whereby overlapping sheets are simply fixed in place using Alsynite 14G x 75mm fasteners with 26mm DEKS EPDM washer, thus avoiding all the costly, time consuming and complicated fixing associated with flat twinwall products.

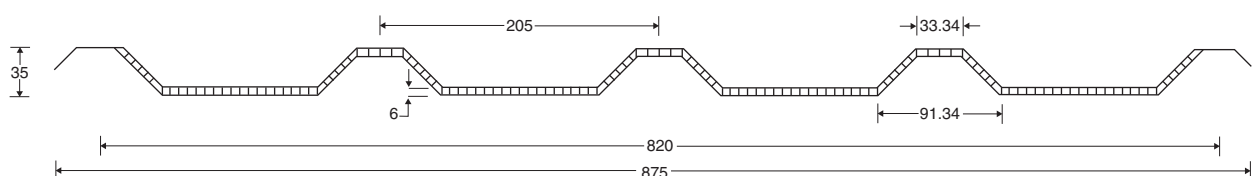
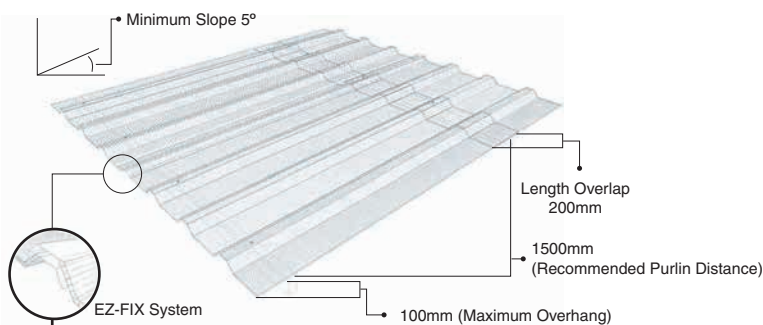
Apply the Laserlite® Black End Enclosure Tape to the bottom and top edge of the sheet. This will stop bugs and dust from entering, and will assist in keeping your Alsynite 5 Rib looking superb.

RECOMMENDED ROOF PITCH

The recommended minimum roof pitch for Alsynite 5 Rib is five degrees.

PURLIN SPACING

Alsynite 5-Rib is designed to be installed on purlins at a maximum of 1500mm centres.



Accessories

■ SCREW FIXINGS

Timbertite Class 4 Type 17, 14G x 75mm
with 26mm DEKS EPDM Washer

■ INFILL STRIPS

Twinwall Foam Narrow Tip Infill Strip,
Twinwall Foam Wide Tip Infill Strip

■ METAL BACK CHANNEL & INFILL FOAM

■ END CAPS

Twinwall Profiled Foam End Cap

■ ALSYNITE NOISE STOP TAPE

25m Roll

BRANZ Technical Opinion Summary

**This is to certify that the specimen described below has
been examined by BRANZ Ltd on behalf of**

Alsynite NZ Ltd
7 De Leeuw Place
Te Rapa
Hamilton 3200
New Zealand

Test standard: ISO 9705:1993

Specimen name:

- Laserlite 2000+
- Laserlite 3000
- Eurolite
- Eurolite 3
- Sunline
- Custom Glaze
- Alsynite Industrial Polycarbonate
- Laserlite Twinwall Polycarbonate profiled section, in 6 mm thickness
- Laserlite Twinwall Polycarbonate flat section, in 6 mm, 8 mm and 10 mm thicknesses.

Specimen description: Polycarbonate FR in various profiles, colours and thicknesses

Orientation: From the underside as tested

A full description of the performance assessment is given in BRANZ Technical Opinion:

FAR 4580-TO [2016] issued 21 June 2016

Regulatory authorities are advised to examine reports before approving any product.

The conclusion of the Technical Opinion provides the following Building Code Classifications:

Building Code Document	Group Number Classification
NZBC Verification Method C/VM2 Appendix A	1-S

Issue Date:
21 June 2016

Expiry Date:
21 June 2021



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