

Industrial Polycarbonate FR 1-S Premium Grade

Product Data Sheet

Manufactured from high-tech polycarbonate resin, Alsynite Industrial Polycarbonate FR 1-S combines remarkable clarity with incredible strength.

Extensively Tested

Alsynite Industrial Polycarbonate FR 1-S 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 Industrial Polycarbonate FR 1-S achieves a NZBC 1-S Rating as flashover is not reached.

High Quality and Superior Performance

Alsynite Industrial Polycarbonate FR 1-S sheeting is ideal for:

- Commercial and industrial roofing.
- Cladding applications where natural lighting is required.

The added protection of a co-extruded UV protective barrier assures Alsynite Industrial Polycarbonate FR 1-S sheeting will provide many years of natural lighting.

Alsynite Industrial Polycarbonate FR 1-S sheets are 250 times stronger than glass, exhibit exceptional resistance to impact and numerous chemicals, while providing protection of 99.9% harmful UV radiation.

Spanning Capabilities

Maximum purlin spacings (1.2mm sheet)			
Profile	Roof end span (mm)	Roof mid span (mm)	Wall Span (mm)
5-Rib	1400	1800	1500
Multispan	1500	2200	1500
Conqueror	1500	2200	1500

Specification

The translucent roofing shall be Alsynite Industrial Polycarbonate FR 1-S roof sheeting as supplied by Alsynite NZ Ltd. The available colour is opal.

The sheeting shall be 1.2mm thick and manufactured to conform to the nominated roofing and cladding profile (refer to technical information).

Installation shall be carried out in accordance with the requirements of AS 1562.3:2006 or in accordance with Alsynite NZ Ltd. technical literature.

The Alsynite Industrial Polycarbonate FR 1-S product is available to match most common roofing profiles, subject to minimum order quantity.

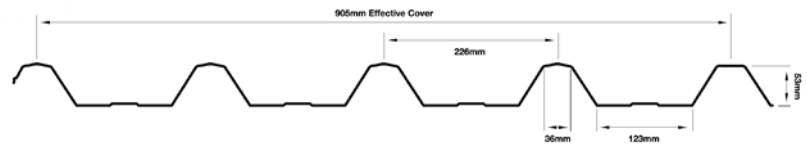
ALSYNITE HEAD OFFICE: Freephone 0800 257 964
Hamilton 07 850 5088

DISTRIBUTION CENTRES: Palmerston North 06 356 5384
Christchurch 03 348 3375
Invercargill 03 214 6002

Profiles Available (Lengths Available - 11.5m and 5.75m)

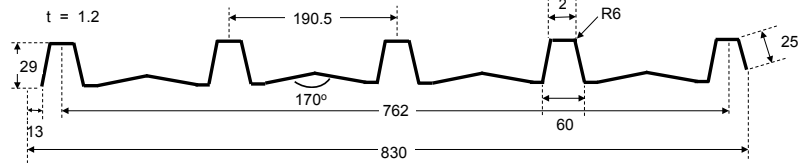
Multispan (5 crests)

Compatible with:
Mega 5, Multispan, Maxispan,
Metcom 930, Multirib, ST900



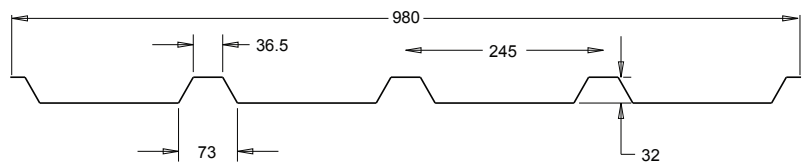
5-Rib (5 crests)

Compatible with:
Trimrib, Plumdek, MC760,
Trimline, Hi-Five, Trimform



Conqueror (5 crests)

Not compatible with other profiles.



BRANZ Type Test Summary

This is to certify that the specimen described below has been tested 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:** Alsynite Industrial Polycarbonate FR [1-S] Premium grade
- Specimen description:** Alsynite Industrial Polycarbonate FR [1-S] Premium grade, nominally 1.2 mm thick with peaks of 25 mm at 190 mm pitch and with a weight of approximately 1.66 kg/m²
- Orientation:** From the direction tested.

A full description of the test specimen and the test results are given in BRANZ Test Report:
Fire Test FI 5603-TT – Test date 22nd October 2014

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

The test results were the basis for the following:

Building Code Document	Group Number Classification
NZBC Verification Method C/M2 Appendix A	1-S

Issue Date: 21 November 2014
Expiry Date: 21 November 2019



This Laboratory is accredited by International Accreditation New Zealand (IANZ). The tests reported herein have been performed in accordance with the laboratory's scope of accreditation.