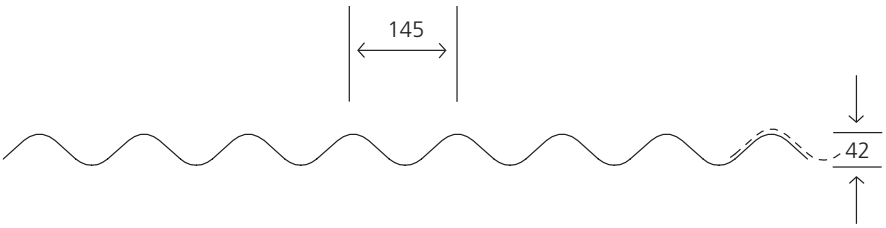
# SUPER SIX
PRODUCT TECHNICAL STATEMENT




## PRODUCT DESCRIPTION

Super Six - large 42mm high corrugate profile that is used on commercial buildings where repairs to Fibrolite or Asbestos claddings are required. Available only in Durolite and Duraclad.® Not available as a steel product.

## DESIGN GUIDELINES

Recommend use when:

- Roof pitch is 3° and above
- Max purlin spacing does not exceed wind uplift load from the Super Six load span charts
- Specify fixing type and length to be used with the correct purlin material
- Ensure there is an allowance for thermal expansion on sheet lengths above 10m
- Can be used for wall cladding and can be installed on top of cavibat ventilation batten

## BUILDING CODE COMPLIANCE

The product will, if used in accordance with the Dimond installation and maintenance requirements, assist with meeting the following provisions of the building code for a period of 15 years:

- Clause B2 Durability: Performance B2.3.1
- Clause C3 Fire affecting areas beyond the fire source: Buildings C3.3 if using FireGuard (FG2 or FG3)
- Clause E2 External moisture: Performance E2.3.1, E2.3.2
- Clause F2 Hazardous building materials: Performance F2.3.1

## EVIDENCE MEETS NZBC

Test information available from Ampelite, and past history of use of GRP long run roofing and cladding products in New Zealand indicate that, provided the product use and maintenance is in line with the guidelines contained in the current Dimond literature referenced, it can be expected to meet the performance criteria in clause B2,C3, E2 and F2, C3 of the New Zealand Building Code, for a period of not less than 15 years.

## SUPPORTING EVIDENCE

The product has and can make available the following additional evidence to support the above statements:

NZ Metal Roofing Manufacturers Association Inc. (NZMRM)
Code of Practice

## ENVIRONMENTAL

Manufactured from raw material supplied to Ampelite NZ in Auckland. The site operates within strict environmental controls and recycle cleaning and washing water and control what is exhausted into the environment. Non-recyclable off-cuts are disposed to landfill.

## COATINGS & CLASSES

The fibers and resins that make up the sheet strength are protected by a 100 micron thick integral gel coat top surface. This top surface provides excellent protection from UV light and environmental & Chemical breakdown. For harsh chemicals and hydrocarbons, a vinyl esta resin should be used. Minimum quantity apply.

Contact Dimond® Roofing for further information. Webglass GC industrial fiberglass is manufactured in strict accordance with AS/NZS 4256 parts 1 & 3: 1994. Standards License No. SMKB20116.

N.B.Type GC is surface coated with a S996 coating. The highest quality materials available and the very latest resin technology are used in the manufacturing process.

## SPANS

| Product | Material | Thickness BMT (mm) | Roofing Max. Span End Span (m)* | Roofing Max. Span Internal (m)* | Walls Max. Span End Span (m) | Walls Max. Span Internal (m) |
|---|---|---|---|---|---|---|
| Super Six (min. pitch 3°) | Duraclad® (GRP) | 1.70 | 1.00 | 1.20 | 1.40 | 1.70 |

GRP = Glass reinforced plastic.
Spans for roofing where the ultimate wind uplift load does not exceed 3 kPa.
Spans for walls are limited by an acceptable appearance or an ultimate wind uplift load of 2kPa.
*Available in Webglass for restricted access roofing
*For more information, please refer to Dimond Roofing website https://www.dimond.co.nz/products/super-six

## FIXINGS

| Purlin Type | Screw Fastener | | | |
|---|---|---|---|---|
| | Roofing Rib | | Wall Cladding Pan | |
| | Screw length* (mm) | Designation | Screw length* (mm) | Designation |
| Timber | 75 | T17 - 14g - 10 x 75mm | 50 | Roofzip M6 x 50mm |
| Steel | 65 | Tek - 12g - 14 x 68mm<br>Tek - 14g - 14 x 65mm | 20 | Tek - 12g - 14 x 20mm |

*If sarking or insulation is used over the purlins, screw length will need to be increased.

The Limit State Load/Span Capacity Chart is based on 4 screw fasteners/sheet/purlin using load spreading washers that are profiled metal washers and 36mm EPDM seals.

Long spans may require the specification and use of side lap stitching screws.

## INSTALLATION REQUIREMENTS

Fix on Every rib on every sheet and purlin using the above fixings through a 10mm diameter clearance hole with profiled washer and 36mm Diameter EPDM seal.

Webglass Super six is available as a trafficable sheet if required.

Care should be taken to ensure all foot traffic is restricted to within 200mm of all the purlin lines when walking on the Super Six.

## SPECIAL CONDITIONS

Manufactured in Auckland.

Options are available to meet New Zealand Building Code fire clause C3.3 spread of flame on internal surfaces to achieve a group number 2 or 3 Products called FG2 or FG3. FG3 is available as a Bromine free product.