

# HEAT REDUCING TRANSLUCENT ROOFING



## Introduction

Where potential condensation issues are of concern, Laserlite Building Products manufacture a Twinskin System that offers a solution to this problem. Two independently formed sheets of Topglass® are laid over each other to form an effective air gap between the sheets. Condensation evaporates and this prevents water droplets entering the building. Laserlite Building Products Twinskin Systems also offers building occupants a reduced noise level from outside influences, as the system offers an effective acoustical reducing solution.

## Key Benefits

- Manufactured from an acrylic modified resin system, reinforced with high quality glass fibre rovings.
- Reduces internal heat build-up and offers a passive natural lighting concept.
- Effective noise reducing system.
- Eliminates condensation in most applications.
- Manufactured and supplied to side-lap most current popular steel roofing profiles.
- Manufactured and supplied in one length as a complete system, ridge-to-gutter or ridge-to-step if a stepped roof.

## Applications

Commercial, industrial, institutional sports stadiums and other projects where long term high quality natural lighting is required.

## Special Applications

Laserlite Building Products Twinskin System can be supplied to meet varying light and solar transmission requirements to meet any design criteria.

## Surface Coatings

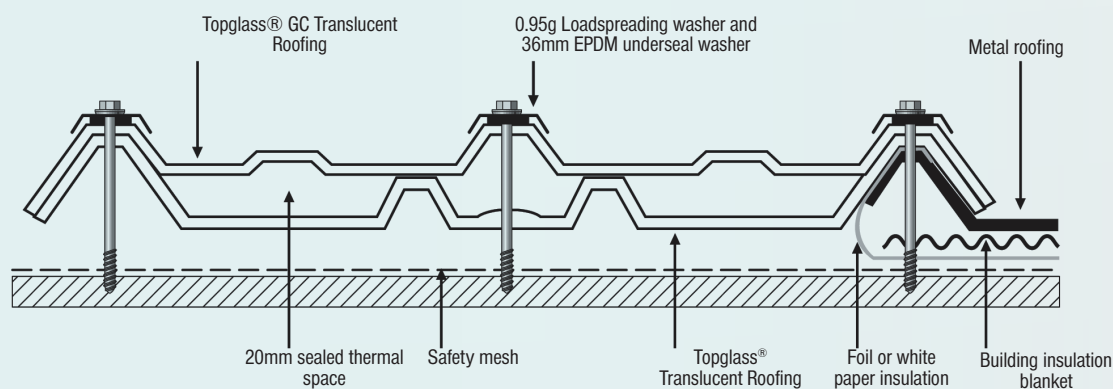
Topglass® GC is the preferred choice for Twinskin Systems for the external weather surface. Laserlite Building Products 100 micron\* EXO-SET 206 Gelcoat weather surface offers excellent protection against solar deterioration. A 20 micron film can be applied to the reverse side of the laminate or where corrosive atmospheres exist which may affect the underside of the sheeting. Laserlite Building Products Topglass TopCool® can be supplied.

## Colours and Tints

Laserlite Building Products Twinskin Systems typically are supplied with a low pigment additive in the top sheet and a clear support under sheet. This configuration offers the building interior a soft passive environment without direct sunlight penetration. However any combination of pigment colours is readily available, consult Laserlite Building Products for pigment level recommendations.

## Heat Reducing Sheeting

As an added barrier against solar heat build-up, Twinskin Systems can include SPF 4 and SPF 8 formulations.



- NOTE:
- Gutter end sealed with purpose made Laserlite Building Products closed cell foam strip
  - Twinskin clear roofing at 2400g/m<sup>2</sup> (1.5mm thick) provides light transmission of 70%

## Operating Temperature

Laserlite Building Products Twinskin Systems operating temperature is -30°C to +70°C

## Fire Retardant

Laserlite Building Products Twinskin Systems operating temperature is -30°C to +70°C supplied as Topglass GC FR 50 Plus.

Laserlite Building Products Twinskin Systems can also be supplied as Topglass® FR50

## Safety

To comply with the requirements of AS 1562.3:2006 Part 3 Plastic, translucent roofing products are classified as brittle roofing and therefore not suitable to support foot traffic – with the exception of Topglass® GC Ultra-Safe. Note that safety mesh should be installed under all translucent roofing.

## Severe Corrosion Environments

In areas where corrosion is severe Twinskin Systems can be supplied with a vinyl ester resin system.

## Specification

The translucent Twinskin System shall be Laserlite Building Products reinforced polyester roof sheeting manufactured by Laserlite Building Products to comply with AS4256.3:2006 JAZ-ANZ certification licence number 2349. The sheeting shall be measured in g/m<sup>2</sup> or mm (sheet thickness) and manufactured to conform to the nominated roofing and cladding profile. Insulated Translucent Roofing systems can be manufactured to meet building fire standard groups 3, 2 and 1-S classifications. Test report available from Laserlite Building Products. Installation shall be carried out in accordance with the requirements of AS 1562.3:2006.

## Twinskin Roofing System - Profile Exploded

