ClearSlide 405 and 700 mm cover to suit all roll formed steel deck sheeting.

CLEARSLIDE
ROOFING SYSTEM TO EFFECTIVELY COMBINE FIBREGLASS AND ROLL FORM STEEL DECKING

ClearSlide 405 and 700 mm cover to suit all roll formed steel deck sheeting.

CLEARSLIDE
Sliding saddles enable independent sheet expansion

Patent Number 2002100864

UNIQUE CLEARSLIDE PROFILED FIBREGLASS SHEET PROVIDES SCREW FREE, LEAKPROOF SIDELAPS ON BOTH EDGES OF STEEL DECKING
Faster, Easier, Installation with CLEARSLIDE
unique profile fibreglass sheet and strip-clip system

The patented ClearSlide fixing clips provide many advantages over normal installation procedures, and also allow the combination of metal roll form decking and fibreglass skylighting over long lengths. No longer are two very different materials screwed together in the hope that they will interact, without water ingress, or cause buckling (ocean waving) of the fibreglass. The ClearSlide roof is watertight and aesthetically pleasing.

- Unique sliding saddle allows for the skylight expansion and contraction independently of the metal roof.
- No pre-drilling or over sizing holes in the fibreglass is necessary, thus reducing installation time.
- The pilot hole in the ridge ensures correct location of the Tek screw through the fibreglass and is shaped to prevent the screw slipping.
- The clip supports the fibreglass fully enabling minor maintenance traffic on the purlin.
- Support from the clip and the extra ribs within the profile allow for greater spanning capacity. Savings are possible through reduced costs with less purlins.
- Fibreglass is completely independent to the metal decking. This allows for long length sheets and eliminates the chances of water penetration.
- A finishing side clip supports and holds down the metal tray male rib which is left unsupported in a traditional system.
- Allows for longer length sheets eliminating some or all unsightly end lap joints.
- No protective purlin strip is required as the clip provides protection to the fibreglass from point loads over the safety mesh.
- Can be manufactured in Webglas, eliminating the need for safety mesh.
- The ClearSlide fibreglass profile will match all existing 700 decking profiles.
- This premium grade fibreglass sheeting is protected by the Wonderglas GC “gel coating” system, prolonging lifespan by in excess of 300% over standard fibreglass.

Other advantages

Expansion and contraction of the metal decking and fibreglass are independent of each other as the ClearSlide clip system ‘floats’ the fibreglass above the steel deck. The metal decking is not pierced at the side ribs.

Normal fibreglass deck spanning

<table>
<thead>
<tr>
<th>ClearSlide SPANNING 405 &amp; 700</th>
<th>Normal fibreglass deck spanning</th>
</tr>
</thead>
<tbody>
<tr>
<td>SERIES</td>
<td>SERIES</td>
</tr>
<tr>
<td>2400</td>
<td>2000 mm</td>
</tr>
<tr>
<td>3050</td>
<td>2300 mm</td>
</tr>
<tr>
<td>3660</td>
<td>2600 mm</td>
</tr>
</tbody>
</table>

As the chart above shows, the ClearSlide profiled sheet is significantly stronger in terms of spanning capacity over a normal 400 and 700 deck profiles of the same sheet mass. Limit state testing as per AS4040.2: 1992, has been performed by Vipac Scientists and Engineers. Tests of ClearSlide are written in Report No. 360176 TST 3297 00 dated August 2004. Tests of 700 Decking are written in Report No. 360176 TST 2799 00 dated December 2003. Comparison of the two profiles reveals that ClearSlide out-performs 700 Deck fibreglass by an average of 71.55% for internal spans and 65.14% for end spans.

Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength</td>
<td>80 MPa</td>
</tr>
<tr>
<td>Impact Strength</td>
<td>8 joules</td>
</tr>
<tr>
<td>Shear Strength</td>
<td>90 MPa</td>
</tr>
<tr>
<td>Modulus of Elasticity</td>
<td>5500 MPa</td>
</tr>
<tr>
<td>Compressive Strength</td>
<td>135 MPa</td>
</tr>
<tr>
<td>Flexural Strength</td>
<td>150 MPa</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.6</td>
</tr>
<tr>
<td>Water Absorption</td>
<td>0.2% in 24 hours/26º</td>
</tr>
<tr>
<td>Curved Roof Radius, 2400 gsm</td>
<td>10.0 metres</td>
</tr>
<tr>
<td>Minimum requirement</td>
<td>50 MPa</td>
</tr>
</tbody>
</table>

Revised Service Temperature -20º to +96º
The Wonderglas GC 100 micron thick gel coat provides unsurpassed performance. In comparison, surface film is just 20 microns.

Ampelite ClearSlide Decking is a special purpose variation of ‘Wonderglas GC’ sheeting with all its superior features.

- **Light transmission is maintained.**

  The loss of light transmission after 10 years is just 10% compared to a loss of 30% for standard 20 micron surface film protected fibreglass sheeting. Wonderglas GC has a highly UV resistant gel coat of 100 microns.

- **Very high resistance to yellowing and discolouration.**

  Over 10 years changes are negligible and are covered by warranty. Only minor changes may occur in later years.

- **Surface erosion (fibre show) is eliminated.**

  It is covered by warranty for 25 years.

- **Low surface erosion.**

  This also improves weathering properties. The 100 micron gel coated surface provides an impenetrable barrier and the sheet is warranted against water penetration for 25 years. Inbuilt UV protection eliminates 99% of harmful UV rays.

- **Cost effective over the life of the building.**

  Wonderglas GC with a Warranty of 25 years has a vastly superior life span, and most importantly, light transmission and appearance is maintained. Please refer to the Wonderglas GC brochure for detailed information.

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### LIGHT & HEAT TRANSMISSION

<table>
<thead>
<tr>
<th></th>
<th>Light</th>
<th>Heat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ice Clear</td>
<td>74%</td>
<td>68%</td>
</tr>
<tr>
<td>Opal</td>
<td>72%</td>
<td>64%</td>
</tr>
</tbody>
</table>

The Wonderglas GC 100 micron thick gel coat provides unsurpassed performance. In comparison, surface film is just 20 microns.
Installation Pointers

1. ____________________________
Loose lay metal sheeting in skylight location as a template, as per normal roof practice, achieving correct 700mm cover skylight location.

2. ____________________________
Remove steel roof sheet template.

3. ____________________________
Slide ClearSlide clip into position on purlin, allowing the locating tab to touch male rib of the metal deck. (Note directional arrow on clip).

4. ____________________________
Screw the clip into position using three roof Tek screws.

5. ____________________________
Fix finishing side clip over the metal male rib and Tek screw in through slot provided on the ClearSlide clip.

6. ____________________________
Using multi grips or pliers, crimp the finishing slide clip and steel male rib together.

7. ____________________________
When fixing fibreglass ensure that the sliding saddle is centred to the rail markers.

8. ____________________________
Lay Clearslide Wonderglas GC fibreglass over the installed ClearSlide brackets.

9. ____________________________
Using a normal steel Tek screw fitted with a 32mm Weatherlok Washer, screw directly through the fibreglass into the pre-punched hole on the saddle.

10. ____________________________
Continue screwing sheets into place until ClearSlide System is complete.

FIXINGS

ClearSlide Rail  
- 10g x 25 mm Hex M
- 12g x 35 mm Hex M
- 12g x 45 mm Hex M

ClearSlide Saddle  
- 12g x 35 mm Hex M

The ClearSlide Bracket end showing finishing side clip that helps support the male rib of the chosen steel decking.
When fixing fibreglass to the sliding saddles they must be centred to the rail markers.

Specification for patented CLEARSLIDE Skylight System (Patent No. 2002100864)

“Skylights are to be Ampelite ClearSlide System comprising sliding saddle and Wonderglas GC six ridge fibre reinforced polyester panel with a 100 micron thick gel coat. The weight of the sheet shall be *(2400g/m²) in *(Opal or Ice Clear) tint. The ClearSlide System is manufactured to conform with AS/NZS 4256 parts 1 & 3: 1994 and shall be installed in accordance with Ampelite fixing instructions in conjunction with AS1562.3: 2006, Design and installation of sheet roof and wall cladding Part 3: Plastic.”

*Insert required sheet weight.
**Insert required sheet colour

Further information available from

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