Natural light illumination
Economical and durable
High U.V. protection

ONDUCLAIR GRP
POLYESTER rooflight single skin sheets

www.onduline.net
The Onduclair GRP® sheets are manufactured to the highest standards from polyester resin, strengthened with glass fibres. Onduclair GRP® generates cost savings and has environmental benefits in providing natural light into a building, making it the ideal choice for residential, commercial, industrial, and agricultural projects with low to medium humidity levels.

A tradition of quality

**ADVANTAGES**

**TRANSLUCENCE**
The polyester sheets are translucent. With lower light transmission levels than total transparency, they provide gentle, even and subtle lighting. The risks of dazzling or blinding by strong sunlight are avoided.

**Light transmission**
- Colourless class 2: 85 %.
- Colourless class 3: 85 %.

**PROTECTION**
The gelcoat protection of both sides guarantees no fibre loss for 10 years.

**RESISTANCE TO CHEMICAL AGENTS**
According to your application, please contact our Technical Service Department.

**SHOCK RESISTANCE**
The combination of polyester resin and fibre glass provides Onduclair GRP® with high mechanical resistance.

**ROOFING STANDARDS**
The Onduclair GRP® sheets are manufactured in compliance with European Standards EN1013-1 and EN 1013-2.

**THERMAL STABILITY**
- No alteration in the material between -30 °C and +120 °C
- Dilatation coefficient 25 x 10^-6 m/m °C
- No harmful vapour
**INSTALLATION INSTRUCTIONS**

1. Determine the distance between the purlin support centres using the **Onduclair GRP** technical data sheets, and set the roof out allowing for the required sheet side and end laps.

2. Install the sheets from the eaves to the ridge, starting from the opposite direction of prevailing winds, with the corrugations or ribs running down the slope of the roof.

3. Drill the fastener holes to a diameter 2 mm larger than the fastener diameter and at least 50 mm from the sheet end.

4. **Onduclair GRP** fixing components must be used, as the corrugation support blocks avoid the possibility of deforming the sheet corrugations whilst fixing the sheet.

5. Take care not to overtighten securing fixings allowing for thermal movement in the sheets as they expand and contract in response to solar heating.

6. Caution: Covering roofs can be a hazardous operation. All work must be carried out with due regard to health and safety regulations as set out in HSG33 (Roof work).

**ACCESSORIES**

Onduclair GRP® is available in a wide range of profiles and colours to match your exact requirements. The Sales Department will be pleased to assist.

**ONDUCLAIR GRP RANGE**

**Onduclair GRP**® is available in a wide range of profiles and colours to match your exact requirements. The Sales Department will be pleased to assist.

**Onduclair GRP**® is the ideal roofing sheet for Industrial, Agricultural and Domestic projects.

**Onduclair GRP**® sheets are produced in a range of thicknesses to match your needs. The sheets are available in a wide range of lengths and are manufactured in compliance to EN1013.

The **Onduclair GRP**® range is covered by a ten-year weathering guarantee under normal conditions.*

**INSTALLATION NOTES**

a/ Refer to our technical fixing specification or alternatively contact our technical sales department for project advice.

b/ Applications should be in compliance with relevant B.S. Standards and Building Codes of Practice.

c/ Use the **Onduclair GRP**® sheets without any shading systems (blinds, etc.). Double-skin systems are possible, providing that the underside of the upper skin is properly ventilated.

d/ Continuous ventilation under the sheets from the eaves to the ridge is vital.

e/ The width of the sheet support must be at least 40 mm for steel and 60 mm for wood.

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<table>
<thead>
<tr>
<th>Profile</th>
<th>Minimum slope*</th>
<th>Minimum Transverse coverage*</th>
<th>Maximum spacing*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large Profiles</td>
<td>5° degrees</td>
<td>200 mm, maybe reduced to 140 mm*</td>
<td>1,385 m</td>
</tr>
<tr>
<td></td>
<td>9% slope 1 in 11 gradient</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Small / Mini Profile</td>
<td>15° degrees</td>
<td>140 mm, maybe reduced to 100 mm*</td>
<td>1,10 m</td>
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<tr>
<td></td>
<td>25% 1 in 4 gradient</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ribbed steel box profiles</td>
<td>4° degrees</td>
<td>200 mm, maybe reduced to 150 mm*</td>
<td>variable according to profile, never exceed 1,50 m</td>
</tr>
<tr>
<td></td>
<td>7% 1 in 14 gradient</td>
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</tbody>
</table>

* in sheltered areas depending on the geographic area and roof slope.

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* Roofing in “normal” sites. For exposed windy locations or buildings on sites over 300m, provide one additional overlapping corrugation (Greca and corrugated profiles)

* Guarantee terms and conditions apply.
THE RANGE OF PROFILES

The Onduclair GRP® sheets are manufactured to the highest standards in an extensive range of thicknesses, profiles, lengths and widths, a small selection of which is represented below. The Sales Department will be pleased to assist you match your exact product requirements.

Onduclair GRP®

TRANSPORT AND STORAGE

Onduclair GRP® sheets must be stored flat, away from dampness, direct sunlight and any source of heat, as prior to fixing sheets exposed to U.V. radiation can deform. Therefore, the sheets should be stored internally or covered with a suitable tarpaulin on site. These precautions must be respected regardless of the product quantities and the storage time. Never place one pallet on top of another; the pallets must also be weighed down in strong wind.

www.onduline.co.uk

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