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Product Catalogue & Warranty

Twin-Wall



What is Twin-Wall?

Twin wall sheets, featuring a dual-layer structure, offer a combination of lightweight design and robust insulation properties. Crafted from materials like polycarbonate, these translucent panels find applications in construction and greenhouse roofing, providing durability and effective thermal performance. With easy installation and UV resistance, twin wall sheets present a versatile solution for projects requiring both strength and transparency.

Colour Light and Heat Transmission Data

All colours come with 99.9% UV Resistance.

	Clear	Bronze Tint	Grey Tint	Platinum	Opal
Heat Transmission	73%	62%	42%	18%	9%
Light Transmission	76%	46%	25%	18%	9%
Shading Coefficient	0.88	0.78	0.64	0.42	0.31



Profile Selection

Standard Width	700mm	1050mm	1200mm
Rafter Nominal Spacing	720mm	1070mm	1100mm
Standard Length	3.6m, 6.0m	3.6m, 4.2m, 5.0m, 6.0m, 7.0m, 8.0m	3.6m, 6.0m
Cold Bending Radius	1750mm	1750mm	1750mm

Installation Guide

Step 1,2,3 apply for both One piece and Two piece H-Bar system, however see table below for separate instructions that follow step 3 as the One piece and Two piece system is setup differently.

Step 1: Install sheets with the ribs running vertically in the direction of the fall on the roof with a minimum pitch of 5 degrees.

Step 2: Multiwall sheets can be cut using a sharp knife, hand saw or circular saw with a fine tooth blade suitable for plastics. Sawdust should be cleared from the channels with compressed air (or vacuumed) and edges should be free of notches.

Step 3: Peel some of the masking back from the ends of the sheet and apply breather tape to the top and sealing tape to the bottom ends.

	One piece H-Bar System	Two piece H-Bar System
4	Place the first measured and cut H-Bar down squarely on the structure (screw side up)	Place the first measured and cut base glazing on the structure.
5	Secure the H-Bar to thereafter with a screw at no greater than 1200mm apart. Maximum end overhang is 50mm.	Fasten the Base Glazing Bars to thereafter with screws at no greater than 500mm apart by Fixing through the center of the base glazing bar and securing it firmly onto the supporting structure. Maximum end overhang is 50mm
6	Place the next H-bar on the other side and secure to the support structure.	Place the sheet between the secured glazing bars. Position the first top glazing bar in line with the base. Secure the two bars using a rubber mallet.

10-Year Limited Warranty (Australia)

1. Warranty Period

Bighands Building Supply Pty Ltd (“Bighands”) warrants that its Multiwall Polycarbonate Sheets (“Product”) will perform in accordance with this warranty for a period of ten (10) years from the date of original purchase.

This warranty applies within Australia and to the original purchaser only.

2. Scope of Warranty (Performance Guarantee)

2.1 Light Transmission

The Product will not exhibit a reduction in light transmission exceeding 6% compared to its original value, when tested in accordance with relevant standards (e.g. ASTM D1003).

2.2 Yellowing Resistance

The Product will not exhibit a change in yellowness index exceeding $\Delta 10$ compared to its original value, when tested in accordance with ASTM D1925 or equivalent.

2.3 Weather and Impact Resistance

The Product will not suffer structural failure due to normal weathering, including exposure to sunlight and hail under typical Australian conditions.

3. Warranty Conditions

This warranty is valid only if all of the following conditions are met:

3.1 Installation Compliance

The Product must be installed strictly in accordance with Bighands installation guidelines, including:

- The UV-protected side must face outward.
- Adequate allowance must be made for thermal expansion and contraction.
- Appropriate fixing systems, gaskets, and accessories must be used.

3.2 Proper Handling and Storage

The Product must be:

- Stored in a dry, shaded environment prior to installation
- Protected from premature UV exposure and moisture
- Handled carefully to avoid scratches, dents, or surface damage

3.3 Appropriate Use

The Product must:

- Be used in accordance with its intended application
- Not be exposed to chemical, corrosive, or incompatible materials
- Not be modified, thermoformed, or altered in a way that affects performance



3.4 Maintenance

The Product must be:

- Cleaned using appropriate, non-abrasive methods
- Maintained in accordance with standard industry practices

4. Exclusions

This warranty does not apply to:

- Incorrect installation, including:
 - UV layer installed facing inward
 - No allowance for thermal expansion
- Damage caused by:
 - Improper handling, storage, or transport
 - Chemical exposure or incompatible materials
 - Scratching, abrasion, or surface damage
 - Accidental damage, vandalism, or misuse

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- Any modification of the Product, including:
 - Thermoforming, cutting, or alteration affecting structure
 - Normal wear and tear or contamination (e.g. dirt accumulation affecting appearance)

5. Claim Procedure

To make a claim under this warranty, the customer must:

- Notify Bighands via email or SMS text message within 14 days of discovering the defect
- Provide:
 - Proof of purchase (invoice)
 - Product details and quantity
 - Description and evidence of the defect
- Allow Bighands or its representative reasonable access to inspect the Product on site
- Failure to comply with the above requirements may result in the claim being rejected



6. Remedies

If a valid claim is accepted, Bighands will, at its sole discretion:

- Supply replacement Product; or
- Refund the original purchase price (or a reasonable portion)

This warranty covers material only. It does not cover:

- Installation or removal costs
- Labour costs
- Transportation costs
- Any third-party or consequential costs

7. Limitation of Liability

To the extent permitted by law:

- Bighands shall not be liable for any indirect, incidental, or consequential loss or damage
- Bighands' liability is strictly limited to the remedies outlined in Section 6

8. Australian Consumer Law Notice

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law.

You are entitled to:

- A replacement or refund for a major failure; and
- Compensation for any other reasonably foreseeable loss or damage

You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This warranty is provided in addition to your rights under the Australian Consumer Law.

9. Governing Law

This warranty shall be governed by and construed in accordance with the laws of Australia. Any disputes arising in connection with this warranty shall be subject to the jurisdiction of Australian courts.