

# SUNTUF™ POLYCARBONATE SHEETS



## PURPOSE

PSP Limited supply SunTuf™ Polycarbonate sheets for use as roof or exterior cladding in buildings that are not habitable spaces.

The sheets are branded as

- SunTuf™ Clear, SunTuf™ Grey Tint and SunTuf™ Bronze Tint,
- SunTuf™ LightTech™, and
- SunTuf™ CoolTech™ Ice, SunTuf™ CoolTech™ Grey.

## EXPLANATION

SunTuf™ sheets are 0.8 mm thick, lightweight, transparent or translucent and come with a gloss or satin surface. They are supplied in two profiles (Corrugated and Greca) and in a range of sheet lengths.

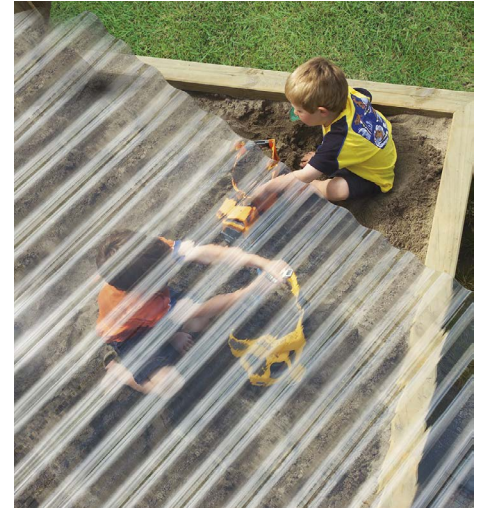
The SunTuf™ range is designed to be used where thermal insulation is not required e.g.,

- Canopies
- Awnings
- Porches
- Carports
- Pergolas
- Skylights.

All SunTuf™ sheets have applied, to one side, a UV blocker which blocks up to 99.9% of harmful UV rays.

## LIGHT AND HEAT TRANSMISSION, AND LIGHT DIFFUSION CHARACTERISTICS

Range	Light transmission (%)	Heat transmission (%)	Light diffusion (%)
SunTuf™ Clear	90	89	-
SunTuf™ Grey Tint	30	55	-
SunTuf™ Bronze Tint	43	68	-
SunTuf™ LightTech™	85	80	100
SunTuf™ CoolTech™ Ice	25	35	-
SunTuf™ CoolTech™ Grey	20	33	-



For further assistance please contact:

- ☎ 0800 786 883
- ✉ info@psp.co.nz
- 🌐 www.psp.co.nz



## SUNTUF PROPERTIES

Properties	Corrugated	Greca
Overall Width/Cover (nom)	860 mm/760 mm	810 mm/760 mm
Thickness (nom)	0.8 mm	0.8 mm
Depth of Corrugation	18 mm	16 mm
Kg per m <sup>2</sup>	1.04	1.2
Clear & Grey Tints Lengths (m)	1.8, 2.1, 2.4, 2.7, 3.0, 3.3, 3.6, 4.2, 4.8, 6.0, 7.2	1.8, 2.4, 3.0, 3.6, 4.8, 6.0, 7.2
Bronze Tint Lengths (m)	1.8, 2.4, 3.0, 3.6, 4.8, 6.0	1.8, 2.4, 3.0, 3.6, 4.8, 6.0, 7.2
LightTech Lengths (m)	1.8, 2.4, 3.0, 3.6, 4.8, 6.0, 7.2	-
CoolTech Lengths (m)	1.8, 2.4, 3.0, 3.6, 4.8, 6.0	1.8, 2.4, 3.0, 3.6, 4.8, 6.0, 7.2

PSP also supply the following accessories for use when installing the SunTuf™ range:

- Fixings:
  - SupaDrive Multi galvanised multi-purpose fixings for use with timber and steel framing. They simultaneously cut the correct size hole through the polycarbonate.
  - Galvanised and stainless steel roof and wall fixings.
  - Galvanised storm washer fixings.
- Flashings:
  - Ridge and apron flashings in lengths of 2060 mm.
- Noise Reduction foam tape; helps to reduce creaking.
- Foam Eave Fillers; provide protection against weather, birds and dust.

## SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<p><b>Location</b></p> <p>In wind zones up to and including Extra High as defined in NZS 3604:2011 or to a calculated design wind pressure (ULS) of 2.1 kPa.</p> <p>In exposure zones as defined by NZS 3604:2011.</p>	<ul style="list-style-type: none"> <li>➤ Where adverse microclimatic conditions apply (see para. 4.2.4, NZS 3604:2011), consult with PSP technical staff.</li> </ul>

## USEFUL INFORMATION

For information on the design, installation and maintenance of SunTuf™ Polycarbonate Sheets and for our warranty refer to SunTuf™ website: [www.suntuf.co.nz](http://www.suntuf.co.nz)

## SCOPE AND LIMITATIONS OF USE CONTINUED

Scope	Limitations
<b>Location</b> Any proximity to a boundary.	> Within 1 m of a relevant boundary, the sheets may only be used as a roof cladding and must be used on an open-sided structure.
<b>Building</b> In conjunction with a primary structure that complies with the NZ Building Code or where the designer has established that the existing structure is suitable for the intended building work. On timber or lightweight steel framing as a roof cladding. As a roof cladding.	> Minimum roof pitch of 10°. > Minimum curved radius 4 m. > A potable water collection system may be installed. > Galvanised roofing fixings with storm washers must be used for high wind zone areas (or greater) or for roofs with a pitch between 5° and 10°.
As an external cladding.	> On buildings less than 10 m in building height.

## PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all PSP's requirements, SunTuf™ Polycarbonate Roofing will comply with or contribute to compliance with the following performance claims:

N.Z. Building Code clauses	Compliance statement	BASIS OF COMPLIANCE Demonstrated by
<b>B1 Structure</b> B1.3.1, B1.3.2, B1.3.3 (a), (e), (h), (i), (j), (q)	ALTERNATIVE SOLUTION	> Manufactured to EN 1013:2012. Palram (n.d).
<b>B2 Durability</b> B2.3.1 (b)	ALTERNATIVE SOLUTION	> Manufactured to EN 1013:2012. Palram (n.d). > Chemical Resistance of Palram Polycarbonate Products. PSP [n.d].
<b>E2 External Moisture</b> E2.3.1, E2.3.2, E2.3.7 (a, b, c)	ALTERNATIVE SOLUTION	> Manufactured to EN 1013:2012. Palram (n.d). > Comparison of profile lap for Corrugated and Greca sheets: refer to details in NZ Metal Roof and Wall Cladding Code of Practice V3.0.
<b>F2 Hazardous Building Materials</b> F2.3.1	ALTERNATIVE SOLUTION	> Product Safety Data Sheet. PSP. [August 2016].

## SOURCES OF INFORMATION

- > PSP. [n.d.] *Chemical Resistance of Palram Polycarbonate Products.*
- > PSP. [n.d.] *SunTuf™ LightTech™ and CoolTech™.*
- > Palram. [n.d.] EN 1013:2012. *Light transmitting single skin profiled plastics sheets for internal and external roofs, walls and ceilings. Requirements and test methods.* Declaration of Performance.
- > PSP. [August 2016] *Product Safety Data Sheet.* Palram Polycarbonate Products.

- Where a standard is referenced it is to be read as amended by the acceptable solution or verification method as applicable.
- Sources of information also include the Building Act 2004 and its regulations, including the Building Code (Schedule 1 of the Building Regulations 1992), Acceptable Solutions and Verification Methods, and relevant cited standards.
- The quality and assurance that the supplied products meet the performance claims stated in this pass™ are the responsibility of the company that is the holder of this pass™.

PSP confirms that if SunTuf is used in accordance with the requirements of this pass™ the product will comply with the NZ Building Code and other performance claims set out in this pass™ and the company has met all of its obligations under s14 G of the Building Act.

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Scan or click this QR code for a full download of Compliance Documentation for this pass™.

[www.suntuf.co.nz](http://www.suntuf.co.nz)



*Kevin Brunton*

Kevin Brunton, Technical Director, TBB confirms that this pass has been prepared on behalf of the PSP and in accordance with MBIE PTS guidelines and in accordance with the TBB pass™ process which is within the scope of TBB's ISO 9001 certification.

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