

## 1. GENERAL

### 1.1 GENERAL

This specification relates to the installation of Suntuf Commercial Polycarbonate Sheets (Suntuf Commercial) for use as roofing and cladding where insulation is not required.

### 1.2 RELATED WORK

The installation of Suntuf Commercial relies on the following:

- a primary structure that complies with the NZ Building Code and is designed and installed in accordance with the building consent and construction drawings and NZS 3604, or NASH Standard Part 2:2019, AS/NZS 1664.1:1997 or, specifically designed to AS/NZS 1170.0 in the case of an existing building, where the designer and installer have satisfied themselves that the primary structure of the existing building is suitable for the intended building work.

### 1.3 DOCUMENTS

Refer to the following supplier's documents:

- Suntuf Commercial Polycarbonate Sheets pass™
- Suntuf Commercial Technical Guide (Corrugated and TrimSpan 5 Rib).

Refer to the following related documents:

- NZS 3604:2011 Timber-framed buildings
- NASH Standard Part 2:2019 Light Steel Framed Buildings
- AS/NZS 1664.1:1997 Aluminium structures – Limit state design
- AS/NZS 1170 Structural design actions.

### 1.4 GENERAL DESIGN CONSIDERATIONS

The system must be specified in accordance with the Suntuf Commercial Technical Guide (Corrugated and TrimSpan 5 Rib).

## 2. PRODUCTS

### 2.1 PRODUCT DESCRIPTION

Suntuf Commercial is a long run polycarbonate roofing and cladding sheet material. Suntuf Commercial sheets are 1.2 mm thick, weigh 1.2 kg/m<sup>2</sup> and have an effective cover width of 760 mm. The sheets are designed to be fixed over a framed structure such as rafters or purlins and overlapping sealed using butyl tape and sealant. Available sheet profiles and lengths are available as follows (Profile, Crest to crest, Peak to trough, Total width):

- Corrugated, 76 mm, 17 mm, 860 mm
- TrimSpan 5 Rib, 190 mm, 28 mm, 835 mm.

Sheets are provided in lengths of 1800 mm, 2400 mm, 3000 mm, 3600 mm, 4200 mm, 4800 mm, 7200 mm, and 9000 mm. TrimSpan 5 Rib profile is compatible with several leading metal long run profiles on the market.

All Suntuf Commercial sheets have, applied to one side, a UV blocker that blocks up to 99.9 % of harmful UV radiation whilst achieving 85 % visual light transmittance.

### 2.2 SUPPLIED COMPONENTS

The following components are supplied:

- Corrugated Suntuf sheets 1800, 2400, 3000, 3600, 4200, 4800, 7200, 9000 mm lengths
- 5 Rib TrimSpan Suntuf sheets 1800, 2400, 3000, 3600, 4200, 4800, 7200, 9000 mm lengths
- Galvanised self-drilling Suntuf Commercial Multi-purpose 55 mm x 12 G screws with matching Crest Rider (Storm Washers) with EPDM gasket
- Galvanised self-drilling Suntuf Commercial Multi-purpose 65 mm x 12 G screws with matching Crest Rider (Storm Washers) with EPDM gasket
- Galvanised self-tapping screws (25 mm) with 19 mm Neo washer
- Galvanised stitching screws 9.5 mm x 25 mm (Grommet seals) with EPDM seals
- Profile matching eave filler foam
- Butyl joining/lapping tape
- White purlin anti-noise tape.

### 2.3 ACCESSORY COMPONENTS

Accessory components are:

- Aluminium tape
- EPDM rubber washers
- Closure fixtures
- White acrylic paint.
- Silicon

### 2.4 SUBSTITUTIONS

Substitutions are not permitted to any of the specified components listed in this section.

## 3. EXECUTION

3.1 QUALIFICATIONS	The installation of Suntuf Commercial must be carried out by a competent and experienced builder.
3.2 RESTRICTED BUILDING WORK	Where Restricted Building Work applies, the installer shall be a Licensed Building Practitioner (LBP) or be supervised by an LBP with the relevant license class.
3.3 CHECK RELATED WORK	Confirm the primary structure has been constructed in accordance with the building consent and construction drawings or, in the case of an existing building, that the existing building is suitable for the intended building work.

## 4. APPLICATION

4.1 GENERAL	<p>The installation of Suntuf Commercial must be completed in accordance with the instructions in the Suntuf Commercial Technical Guide (Corrugated and TrimSpan 5 Rib) and the building consent documentation.</p> <p>All conditions contained in the building consent documentation must be met.</p>
4.2 RECEIPT OF PRODUCT	<p>Ensure that all product supplied is:</p> <ul style="list-style-type: none"> <li>➤ free of defects at the time of delivery and</li> <li>➤ handled and stored in accordance with all of the relevant manufacturer or supplier's requirements and instructions.</li> </ul>

## 5. COMPLETION

5.1 QUALITY CHECK	Check the installation is in accordance with PSP Limited requirements.
5.2 WARRANTIES	For warranty information refer to <a href="http://www.suntuf.co.nz/range/suntuf-commercial/">www.suntuf.co.nz/range/suntuf-commercial/</a> .
5.3 INFORMATION FOR CARE AND MAINTENANCE	Suntuf Commercial requires regular care and maintenance to maintain its performance and appearance. Refer to <a href="http://www.suntuf.co.nz/range/suntuf-commercial/">www.suntuf.co.nz/range/suntuf-commercial/</a> for further information.

## 6. PROJECT SPECIFIC SELECTIONS

### PROJECT DETAILS

Project address

Lot/DP number

Date of plans

Purpose of plans

Description of building work and reference to drawing numbers

### DOCUMENTS SUPPLIED (check which applies)

☐ PSP Suntuf Commercial Polycarbonate Sheets pass™

☐ PSP Suntuf Commercial Polycarbonate Sheets Design and Installation Guide

☐ PSP Suntuf Commercial Technical Guide (Corrugated and TrimSpan 5 Rib).

### DESIGNER CONFIRMATION (check which applies)

Location

#### Wind zone or design pressure (ULS)

☐ Low

☐ Medium

☐ High

☐ Very high

☐ Design pressure (ULS)

#### Exposure zone as per NZS 3604:2011

☐ A

☐ B

☐ C

☐ D

Building

#### Primary structure

☐ Timber

☐ Steel

☐ Aluminium

☐ Specific design

☐ Existing building assessed as suitable for the intended building work.

#### Distance to boundary

☐ Less than 1 m

☐ Greater than 1 m

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### SUPPLIED COMPONENTS

- ☐ Closure fixtures
- ☐ EPDM rubber washers/gaskets
- ☐ Galvanised washers and fixings and fasteners
- ☐ Sealing Tape
- ☐ Silicones
  
- ☐ Corrugated Suntuf sheets 1800 mm
- ☐ Corrugated Suntuf sheets 2400 mm
- ☐ Corrugated Suntuf sheets 3000 mm
- ☐ Corrugated Suntuf sheets 3600 mm
- ☐ Corrugated Suntuf sheets 4200 mm
- ☐ Corrugated Suntuf sheets 4800 mm
- ☐ Corrugated Suntuf sheets 7200 mm
- ☐ Corrugated Suntuf sheets 9000 mm
- ☐ 5 Rib TrimSpan Suntuf sheets 1800 mm
- ☐ 5 Rib TrimSpan Suntuf sheets 2400 mm
- ☐ 5 Rib TrimSpan Suntuf sheets 3000 mm
- ☐ 5 Rib TrimSpan Suntuf sheets 3600 mm
- ☐ 5 Rib TrimSpan Suntuf sheets 4200 mm
- ☐ 5 Rib TrimSpan Suntuf sheets 4800 mm
- ☐ 5 Rib TrimSpan Suntuf sheets 7200 mm
- ☐ 5 Rib TrimSpan Suntuf sheets 9000 mm
- ☐ Galvanised self-drilling Suntuf Commercial Multi-purpose 55 mm x 12 G screws with matching Crest Rider (Storm Washers) with EPDM gasket

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- ☐ Galvanised self-drilling Suntuf Commercial Multi-purpose 65 mm x 12 G screws with matching Crest Rider (Storm Washers) with EPDM gasket
- ☐ Galvanised self-tapping screws (25 mm) with 19 mm Neo washer
- ☐ Galvanised stitching screws 9.5 mm x 25 mm (Grommet seals) with EPDM seals
  
- ☐ Profile matching eave filler foam
- ☐ Butyl joining/lapping tape
- ☐ White purlin anti-noise tape

**SUPPLIED COMPONENTS**

- ☐ Aluminium tape
- ☐ White acrylic paint