

RECEIVED

JUN 12 2023

Walerius' Residence Boat Canopy Repair:
15034 Beach Drive NE, Lake Forest Park, WA 98155

City of Lake Forest Park

Revised submission June 9, 2023

REVISION

Scope: Repair existing boat canopy in accordance to attached submittal package from contactor and structural engineering.

No impact to views from this repair as existing canopy is being repaired.

Existing condition:



Respectfully:

Erik Walerius
15034 Beach Drive NE
Lake Forest Park, WA 98155
erikjohn@gmail.com
425-941-5268

(The following apply unless shown otherwise on the plan):

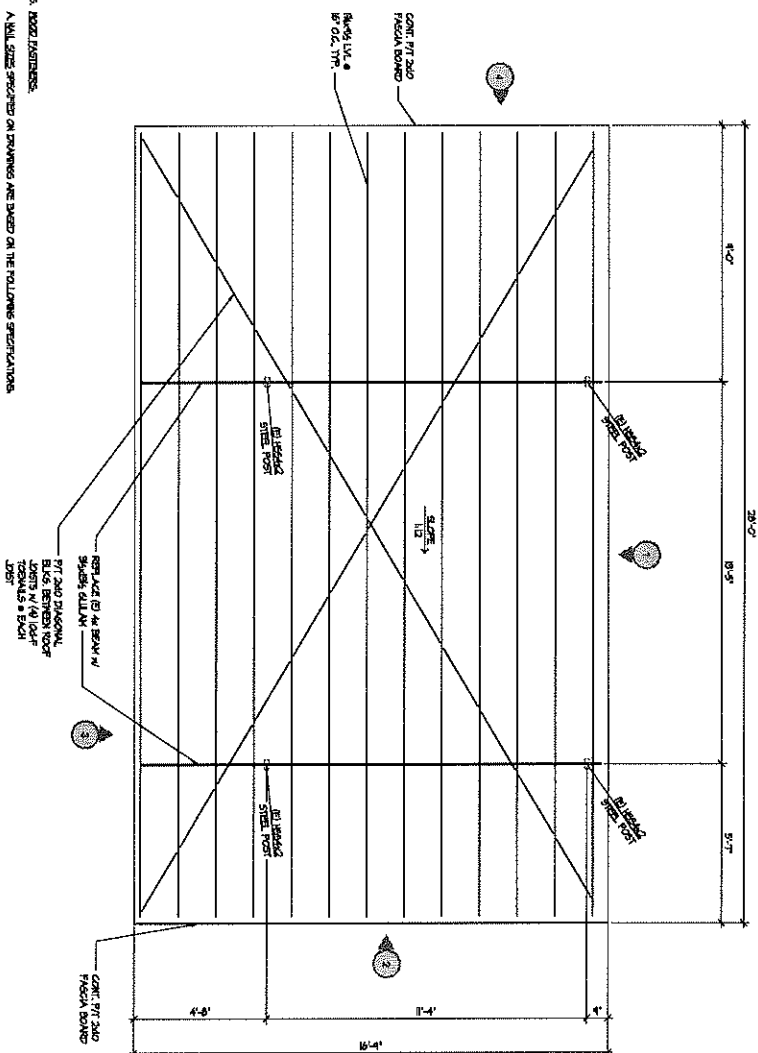
(The following apply unless shown otherwise on the plan.)

Figure 1

- 1500**

5. EXHAUST LAMBERS SHALL BE OIL DRAINED ON 10" X 6" GALVANIZED CORUGATED LIME TREATMENT AND VARNISHED IN CONFORMANCE WITH MILITARY STANDARD NO. 1. SANDING SHALL BE DONE AFTER LAMBER FINISHED TO THE FOLLOWING SPECIFICATIONS:
- | | |
|----------------------------------|--------------------------------|
| GRADES: 2X, 4X AND 6X (REQUIRED) | DOUBLES: 10X OR 12X (REQUIRED) |
| GRADES: 8X, 10X (REQUIRED) | DOUBLES: 12X NO. 1 |
| GRADES: 12X, 14X (REQUIRED) | DOUBLES: 14X NO. 1 |
| GRADES: 16X, 18X (REQUIRED) | DOUBLES: 16X NO. 1 |
| GRADES: 20X, 22X (REQUIRED) | DOUBLES: 18X NO. 1 |
| GRADES: 24X, 26X (REQUIRED) | DOUBLES: 20X NO. 1 |
| GRADES: 28X, 30X (REQUIRED) | DOUBLES: 22X NO. 1 |
| GRADES: 32X, 34X (REQUIRED) | DOUBLES: 24X NO. 1 |
| GRADES: 36X, 38X (REQUIRED) | DOUBLES: 26X NO. 1 |
| GRADES: 40X, 42X (REQUIRED) | DOUBLES: 28X NO. 1 |
| GRADES: 44X, 46X (REQUIRED) | DOUBLES: 30X NO. 1 |
| GRADES: 48X, 50X (REQUIRED) | DOUBLES: 32X NO. 1 |
| GRADES: 54X, 56X (REQUIRED) | DOUBLES: 34X NO. 1 |
| GRADES: 60X, 62X (REQUIRED) | DOUBLES: 36X NO. 1 |
| GRADES: 64X, 66X (REQUIRED) | DOUBLES: 38X NO. 1 |
| GRADES: 68X, 70X (REQUIRED) | DOUBLES: 40X NO. 1 |
| GRADES: 72X, 74X (REQUIRED) | DOUBLES: 42X NO. 1 |
| GRADES: 76X, 78X (REQUIRED) | DOUBLES: 44X NO. 1 |
| GRADES: 80X, 82X (REQUIRED) | DOUBLES: 46X NO. 1 |
| GRADES: 84X, 86X (REQUIRED) | DOUBLES: 48X NO. 1 |
| GRADES: 88X, 90X (REQUIRED) | DOUBLES: 50X NO. 1 |
| GRADES: 94X, 96X (REQUIRED) | DOUBLES: 52X NO. 1 |
| GRADES: 98X, 100X (REQUIRED) | DOUBLES: 54X NO. 1 |
| GRADES: 104X, 106X (REQUIRED) | DOUBLES: 56X NO. 1 |
| GRADES: 108X, 110X (REQUIRED) | DOUBLES: 58X NO. 1 |
| GRADES: 112X, 114X (REQUIRED) | DOUBLES: 60X NO. 1 |
| GRADES: 116X, 118X (REQUIRED) | DOUBLES: 62X NO. 1 |
| GRADES: 120X, 122X (REQUIRED) | DOUBLES: 64X NO. 1 |
| GRADES: 124X, 126X (REQUIRED) | DOUBLES: 66X NO. 1 |
| GRADES: 128X, 130X (REQUIRED) | DOUBLES: 68X NO. 1 |
| GRADES: 132X, 134X (REQUIRED) | DOUBLES: 70X NO. 1 |
| GRADES: 136X, 138X (REQUIRED) | DOUBLES: 72X NO. 1 |
| GRADES: 140X, 142X (REQUIRED) | DOUBLES: 74X NO. 1 |
| GRADES: 144X, 146X (REQUIRED) | DOUBLES: 76X NO. 1 |
| GRADES: 148X, 150X (REQUIRED) | DOUBLES: 78X NO. 1 |
| GRADES: 152X, 154X (REQUIRED) | DOUBLES: 80X NO. 1 |
| GRADES: 156X, 158X (REQUIRED) | DOUBLES: 82X NO. 1 |
| GRADES: 160X, 162X (REQUIRED) | DOUBLES: 84X NO. 1 |
| GRADES: 164X, 166X (REQUIRED) | DOUBLES: 86X NO. 1 |
| GRADES: 168X, 170X (REQUIRED) | DOUBLES: 88X NO. 1 |
| GRADES: 172X, 174X (REQUIRED) | DOUBLES: 90X NO. 1 |
| GRADES: 176X, 178X (REQUIRED) | DOUBLES: 92X NO. 1 |
| GRADES: 180X, 182X (REQUIRED) | DOUBLES: 94X NO. 1 |
| GRADES: 184X, 186X (REQUIRED) | DOUBLES: 96X NO. 1 |
| GRADES: 188X, 190X (REQUIRED) | DOUBLES: 98X NO. 1 |
| GRADES: 192X, 194X (REQUIRED) | DOUBLES: 100X NO. 1 |
| GRADES: 196X, 198X (REQUIRED) | DOUBLES: 102X NO. 1 |
| GRADES: 200X, 202X (REQUIRED) | DOUBLES: 104X NO. 1 |
| GRADES: 204X, 206X (REQUIRED) | DOUBLES: 106X NO. 1 |
| GRADES: 208X, 210X (REQUIRED) | DOUBLES: 108X NO. 1 |
| GRADES: 212X, 214X (REQUIRED) | DOUBLES: 110X NO. 1 |
| GRADES: 216X, 218X (REQUIRED) | DOUBLES: 112X NO. 1 |
| GRADES: 220X, 222X (REQUIRED) | DOUBLES: 114X NO. 1 |
| GRADES: 224X, 226X (REQUIRED) | DOUBLES: 116X NO. 1 |
| GRADES: 228X, 230X (REQUIRED) | DOUBLES: 118X NO. 1 |
| GRADES: 232X, 234X (REQUIRED) | DOUBLES: 120X NO. 1 |
| GRADES: 236X, 238X (REQUIRED) | DOUBLES: 122X NO. 1 |
| GRADES: 240X, 242X (REQUIRED) | DOUBLES: 124X NO. 1 |
| GRADES: 244X, 246X (REQUIRED) | DOUBLES: 126X NO. 1 |
| GRADES: 248X, 250X (REQUIRED) | DOUBLES: 128X NO. 1 |
| GRADES: 252X, 254X (REQUIRED) | DOUBLES: 130X NO. 1 |
| GRADES: 256X, 258X (REQUIRED) | DOUBLES: 132X NO. 1 |
| GRADES: 260X, 262X (REQUIRED) | DOUBLES: 134X NO. 1 |
| GRADES: 264X, 266X (REQUIRED) | DOUBLES: 136X NO. 1 |
| GRADES: 268X, 270X (REQUIRED) | DOUBLES: 138X NO. 1 |
| GRADES: 272X, 274X (REQUIRED) | DOUBLES: 140X NO. 1 |
| GRADES: 276X, 278X (REQUIRED) | DOUBLES: 142X NO. 1 |
| GRADES: 280X, 282X (REQUIRED) | DOUBLES: 144X NO. 1 |
| GRADES: 284X, 286X (REQUIRED) | DOUBLES: 146X NO. 1 |
| GRADES: 288X, 290X (REQUIRED) | DOUBLES: 148X NO. 1 |
| GRADES: 292X, 294X (REQUIRED) | DOUBLES: 150X NO. 1 |
| GRADES: 296X, 298X (REQUIRED) | DOUBLES: 152X NO. 1 |
| GRADES: 300X, 302X (REQUIRED) | DOUBLES: 154X NO. 1 |
| GRADES: 304X, 306X (REQUIRED) | DOUBLES: 156X NO. 1 |
| GRADES: 308X, 310X (REQUIRED) | DOUBLES: 158X NO. 1 |
| GRADES: 312X, 314X (REQUIRED) | DOUBLES: 160X NO. 1 |
| GRADES: 316X, 318X (REQUIRED) | DOUBLES: 162X NO. 1 |
| GRADES: 320X, 322X (REQUIRED) | DOUBLES: 164X NO. 1 |
| GRADES: 324X, 326X (REQUIRED) | DOUBLES: 166X NO. 1 |
| GRADES: 328X, 330X (REQUIRED) | DOUBLES: 168X NO. 1 |
| GRADES: 332X, 334X (REQUIRED) | DOUBLES: 170X NO. 1 |
| GRADES: 336X, 338X (REQUIRED) | DOUBLES: 172X NO. 1 |
| GRADES: 340X, 342X (REQUIRED) | DOUBLES: 174X NO. 1 |
| GRADES: 344X, 346X (REQUIRED) | DOUBLES: 176X NO. 1 |
| GRADES: 348X, 350X (REQUIRED) | DOUBLES: 178X NO. 1 |
| GRADES: 352X, 354X (REQUIRED) | DOUBLES: 180X NO. 1 |
| GRADES: 356X, 358X (REQUIRED) | DOUBLES: 182X NO. 1 |
| GRADES: 360X, 362X (REQUIRED) | DOUBLES: 184X NO. 1 |
| GRADES: 364X, 366X (REQUIRED) | DOUBLES: 186X NO. 1 |
| GRADES: 368X, 370X (REQUIRED) | DOUBLES: 188X NO. 1 |
| GRADES: 372X, 374X (REQUIRED) | DOUBLES: 190X NO. 1 |
| GRADES: 376X, 378X (REQUIRED) | DOUBLES: 192X NO. 1 |
| GRADES: 380X, 382X (REQUIRED) | DOUBLES: 194X NO. 1 |
| GRADES: 384X, 386X (REQUIRED) | DOUBLES: 196X NO. 1 |
| GRADES: 388X, 390X (REQUIRED) | DOUBLES: 198X NO. 1 |
| GRADES: 392X, 394X (REQUIRED)</ | |

1. ALL BOOKS BELONGING TO MEMBERS SHALL BE PRESERVED INSTEAD OF BEING DISPOSED OF BY THE MEMBERS. ANY MEMBER WHO WISHES TO DISPOSE OF HIS OR HER BOOKS SHALL BE REQUIRED TO SELL THEM TO THE LIBRARY AT A PRICE DETERMINED BY THE LIBRARY. THE LIBRARY SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REPAIR OF THE BOOKS. THE LIBRARY SHALL BE RESPONSIBLE FOR THE REPAIR OF THE BOOKS. THE LIBRARY SHALL BE RESPONSIBLE FOR THE REPAIR OF THE BOOKS.



BOOK REVIEW

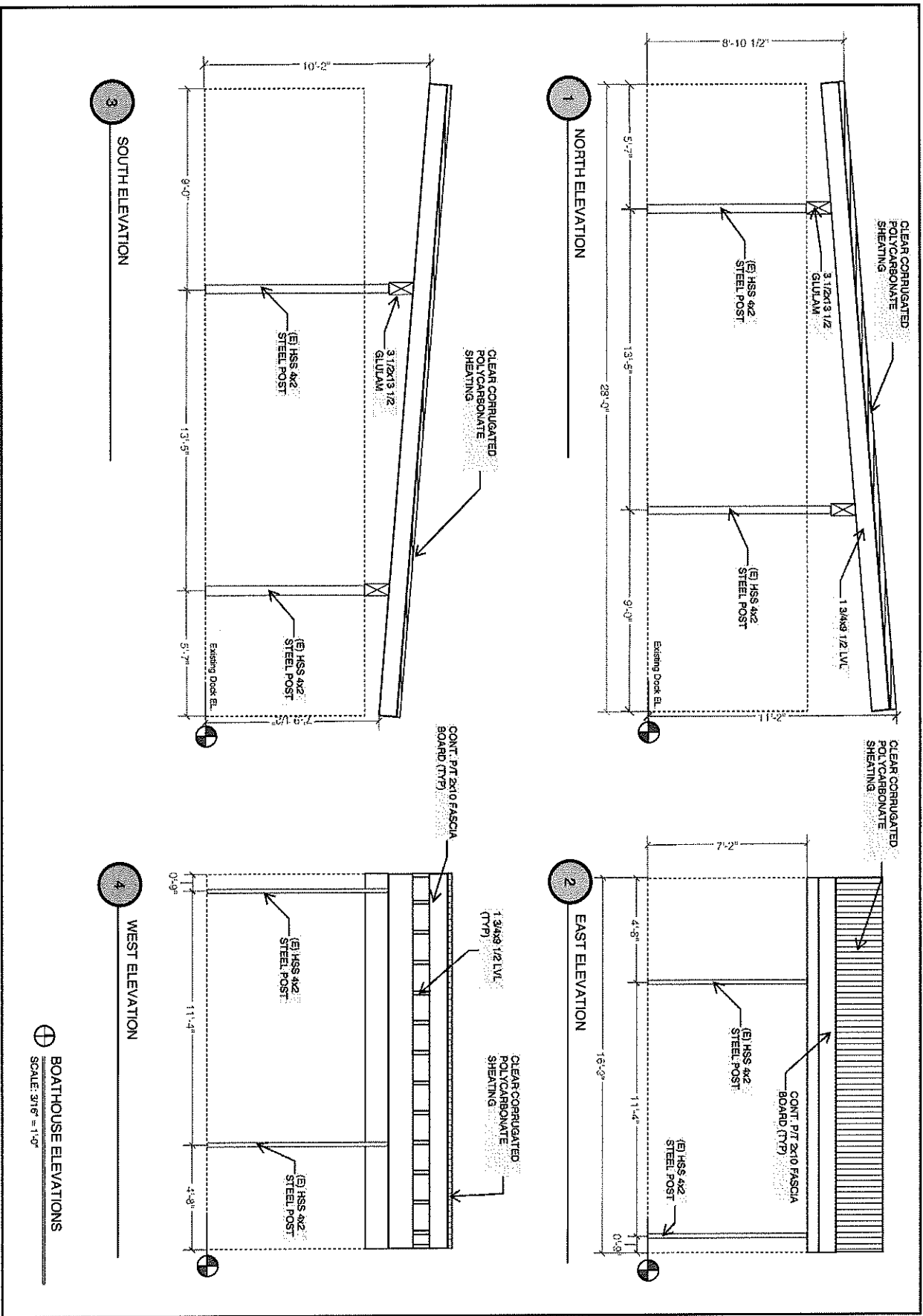
1. ALL DIMENSIONS AND ELEVATIONS ON THE STRUCTURAL PLANS AND ARE FOR GENERAL INFORMATION ONLY AND SHALL BE OBTAINED BY THE CONTRACTOR WITH THE ARCHITECT/CLERK OF WORK BEFORE CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER IMMEDIATELY.
2. SEE SHEETS 5-10 AND 5-11 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATIONS. SEE SHEETS 5-10 AND 5-11 FOR TYPICAL MOOD DETAILS.
3. PROVIDE SOLID BLOCKING BETWEEN EACH ROOF JOINT AT SUPPORTS.
4. PROVIDE A WOODEN PLANK AT EACH JOINT TO BE USED AT

16. **MOORE TRADING NOTES:** THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE PLANS

- ALL MOOD BOARD DETAILS NOT SHOWN OTHERWISE SHALL BE CONSIDERED TO BE THE MINIMUM STANDARDS OF THE TRADE. KITCHEN WALLS, CABINETS, OVERSINK SHALLS, COUNTERS TO BE TALLER (30" MAX), COMPENSATE THE SIZE AND LOCATION OF ALL OPENINGS WITH HEADLAND, AND REINTEGRATED STAINLESS. PROVIDE SINKS UNDER THE KITCHEN AND WINS OF ALL BOARDS AND KITCHEN DEVICES OF MOOD. TITANIUM BOARDS AND LUG SINKS SHALL BE AGAINST MOOD BOARD. AFTER MOOD HAS REACHED SPECIFIED POSITIVE CONDITION.

4

SCALE 127 = F-0



PROJECT:
**WALERUS REMODEL -
 BOAT HOUSE**
 21-3400
 TOLUNER CONSTRUCTION
 Sketched By: IM

PERMIT SUBMITTAL

06.09.23

NO. DATE: 06.09.23 24
 REVISIONS:
 SHEET TITLE:
ELEVATION SKETCHES

SHEET NUMBER:

SK-100

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
- Porches
- Pergolas
- Awnings
- Carports
- 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 m²	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.



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

SCOPE AND LIMITATIONS OF USE

Scope	Limitations
Location	
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.	
In exposure zones as defined by NZS 3604:2011.	➤ Where adverse microclimatic conditions apply (see para. 4.2.4, NZS 3604:2011), consult with PSP technical staff.
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.
Building	
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.
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 ¹	BASIS OF COMPLIANCE Demonstrated by
B1 Structure B1.3.1, B1.3.2, B1.3.3 (a), (e), (f), (i), (j), (c)	ALTERNATIVE SOLUTION	➤ Manufactured to EN 1013:2012. Palram (n.d).
B2 Durability B2.3.1 (b)	ALTERNATIVE SOLUTION	➤ Manufactured to EN 1013:2012. Palram (n.d). ➤ Chemical Resistance of Palram Polycarbonate Products. PSP [n.d].
E2 External Moisture 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.
F2 Hazardous Building Materials F2.3.1	ALTERNATIVE SOLUTION	➤ Product Safety Data Sheet. PSP. [August 2016].

1. The Compliance Statement is the pass holder's statement that they have met their obligations under s14G(2) of the Building Act 2004.

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.

2. 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.

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

www.suntuf.co.nz



VERSION: V2.0

DATE: 27/08/2021

Signed on behalf of Company PSP:

Note: Uncontrolled in printed format.

NAME:

Vaughan Brown

POSITION:

Business Unit Manager
– Building Brands

By signing this pass™ the signatory confirms that, in respect of the subject of this pass™, the company has met their s14G obligations under the Building Act 2004.



320 Rosedale Road, Albany 0632 > info@psp.co.nz > 0800 786 883 > www.suntuf.co.nz

This Product Assurance Supplier Statement (pass™) has been prepared by TBB in accordance with MBIE PTS guidelines and the recommendations of s9.2, Determination No. 2019-011 (issued 12 April 2019). TBB is ISO9001:2015 certified. Copyright © 2017, The Building Business Limited (TBB). All rights reserved.