



SUNTUF[®] Rooflights

Corrugated Polycarbonate Rooflights and Sidelights



► Overview

SUNTUF Rooflights stand up to demanding exterior applications and offer multiple advantages over alternatives. They are designed for use as in-plane rooflights and sidelights with corrugated metal roofs. An advanced profile-matching technology allows PALRAM to adapt SUNTUF to almost any metal profile. SUNTUF panels form a complete shield against harmful UV rays while admitting most of the visible light. The panels contribute to conservation of energy and improve the quality of the working environment. Clear SUNTUF Rooflights allow maximum light in, while a range of colors and diffusions will filter light or reduce heat loads.

► Main Benefits

- Virtually unbreakable
- Self extinguishing
- Maintains high light transmission far better than alternative materials
- Wide service temperature range (-50°C to 120°C)
- Easily and safely installed
- Ten year warranty
- Hail and wind resistant
- Filters over 99% of UV radiation

► Typical Applications

- Rooflights for metal roofs
- Sidelights for metal roofs
- Ridge lighting for roofing roofs



► Profile Availability and Matching*

Standard SUNTUF Rooflight profiles appear below. The complete profile listing of SUNTUF Rooflights is available at the PALRAM website. SUNTUF can also be quickly matched to any given profile using proprietary production technology from PALRAM. For additional information on profile matching please contact your PALRAM distributor.



Profile	Drawing	Thickness mm	Width mm	Length m
Iron (76/18)		0.8 - 2.0	815	1.5 - 11.8
Greca (76/18)		0.8 - 2.0	810	1.5 - 11.8
6500 (171.5/36.5)		0.8 - 2.0	756	1.5 - 11.8
6600 (190/28.5)		0.8 - 2.0	830	1.5 - 11.8

► Colors and Light Transmissions*

Color / Type	% Light Transmission	% Haze
Clear	90	<1
White Opal	45	100
White Diffuser	85	100
Transparent Blue	35	<5
Transparent Green	45	<5

Color / Type	% Light Transmission	% Haze
Solar Control (Heat-Blocking)	20	70

* Measured according to ASTM D-1003.

** Other specifications are available upon request, subject to minimum order.

► SUNTUF® Product Range

Product	Description
SUNTUF®	Corrugated polycarbonate sheet with UV protection on one side.
SUNTUF® UV2	With UV protection on both sides.
SUNTUF® Plus	Greenhouse covering with anti-condensation treatment. UV protection on one or both sides.
SUNTUF® Solar Control	Effective filtering of solar energy.
SUNTUF® Smart	Advanced solar filtering combined with high clarity.

Inasmuch as PALRAM Industries has no control over the use to which others may put the material, it does not guarantee that the same results as those described herein will be obtained. Each user of the material should make his own tests to determine the material's suitability for his own particular use. Statements concerning possible or suggested uses of the materials described herein are not to be construed as constituting a license under any PALRAM Industries patent covering such use or as recommendations for use of such materials in the infringement of any patent. PALRAM Industries or its distributors cannot be held responsible for any losses incurred through incorrect installation of the material. In accordance with our company policy of continual product development you are advised to check with your local PALRAM Industries supplier to ensure that you have obtained the most up to date information.

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► Flammability

SUNTUF has a low flammability rating and does not emit toxic gasses when burning. SUNTUF meets many international fire standards, some of which appear in the enclosed table.

Standard	Classification*
NFP 92501, 4, 5	M-1
DIN 4102	B-1
UL 723	4.7, 47.0
Los Angeles Building Code	CC2 (Section 2603)
UNI 9177, 9176	Class 2

* Additional information is available upon request.

► Typical Physical Properties

Property	Method*	Conditions	Units	Value
Density	D-792		g/cm ³	1,2
Heat deflection temperature (H.D.T)	D-648	Load: 1.82 MP	°C	130
Service Temperature - Short term			°C	-50 to +120
Service Temperature - Long term			°C	-50 to +100
Coefficient of linear thermal expansion	D-696		cm/cm°C	6.5 x 10 ⁻⁵
Thermal conductivity	C-177		W/m K	0.21
Tensile strength at yield	D-638	10 mm/min	MPa	62
Tensile strength at break	D-638	1 mm/min	MPa	65
Elongation at yield	D-638	10 mm/min	%	7
Elongation at break	D-638	10 mm/min	%	>80
Tensile modulus of elasticity	D-638	1 mm/min	MPa	2,300
Flexural strength	D-790	1.3 mm/min	MPa	93
Flexural modulus	D-790	1.3 mm/min	MPa	1,900
Impact falling weight	(ISO 6603/1 E50)	0.8 mm sheet	J	50
Rockwell hardness	D-785		R Scale	118
Light transmission	D-1003	Clear sheet	%	90%
Haze	D-1003	Clear sheet	%	>0.5
Yellowness index	E-313	Clear sheet	WI	>1

* ASTM method except where noted otherwise.

► Resistance to UV Radiation

SUNTUF transmits radiation selectively and completely shields against harmful UV (ultraviolet) rays. SUNTUF itself withstands the detrimental effects of UV radiation, as specified in the SUNTUF warranty.

Visit www.PALRAM.com

To learn more about SUNTUF® Rooflights and other PALRAM products, please visit www.palram.com.

