

ICC-ES Evaluation Report

ESR-1893

Reissued March 2024

Revised September 2024


Subject to renewal March 2025

This report also contains:

- LABC Supplement

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<p>DIVISION: 08 00 00— OPENINGS</p> <p>Section: 08 84 00— Plastic Glazing</p>	<p>REPORT HOLDER: PALRAM AMERICAS, INC.</p>	<p>EVALUATION SUBJECT: EZ GLAZE™, PALSUN® BASIC, PALSUN® UV, PALGARD, SUNTUF® (ALSO KNOWN AS SUNSKY® AND DYNAGLAS) AND SUNLITE® (ALSO KNOWN AS THERMAGLAS™) SERIES POLYCARBONATE EXTRUDED PLASTIC SHEETS</p>	
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1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2024, 2021, 2018, 2015, 2012, 2009, and 2006 [International Building Code® \(IBC\)](#)
- 2013 *Abu Dhabi International Building Code (ADIBC)*†

†The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Properties evaluated:

- Light-transmitting plastic
- Surface burning characteristics
- Durability

2.0 USES

The EZ Glaze™ series polycarbonate extruded plastic sheets are light-transmitting plastics complying with IBC Section 2606.4.

The Palsun® Basic, Palsun® UV, Palgard, Suntuf® and Sunlite® series polycarbonate extruded plastic sheets are light-transmitting plastics complying with IBC Sections 803.1 and 2606.4, and are intended for use in interior applications.

The EZ Glaze™, Palsun® UV, Suntuf® and Sunlite® plastic sheets are also intended for use in exterior applications.

3.0 DESCRIPTION

3.1 General:

The plastic sheets are extruded from polycarbonate resins and are furnished as transparent sheets.

The light-transmitting combustibility classifications in accordance with IBC Section 2606.4 for the plastic sheets are noted in [Table 1](#).

3.2 EZ Glaze Corrugated Sheet Products:

The EZ Glaze series are corrugated plastic sheets available with a smooth surface finish.

3.3 Palsun Basic, Palsun UV and Palgard Monolithic Sheet Products:

The Palsun Basic, Palsun UV and Palgard series are monolithic plastic sheets available with smooth, matte or textured surface finishes.

3.4 Suntuf (also known as Sunsky and Dynaglas) Corrugated Sheet Products:

The Suntuf series are corrugated plastic sheets available with smooth or textured surface finishes. The sheets are available in various corrugated profiles.

3.5 Sunlite (also known as ThermaGlas) Multiwalled Sheet Products:

The Sunlite series are multiwalled (twin wall, triple wall, structured, and SLT profiles, see [Figure 1](#)) plastic sheets available with smooth or matte surface finishes.

3.6 Surface-burning Characteristics:

When tested in accordance with ASTM E84: the 1.5 and 3 mm thick Palsun Basic exhibits a flame spread of less than 25; the 1 mm thick Palsun UV exhibits a flame spread of less than 25; the 1.2 mm thick Suntuf exhibits a flame spread of less than 25; the 8 and 10 mm thick Twin Wall Sunlite exhibits a flame spread of less than 25; the 8 and 10 mm thick Triple Wall Sunlite exhibits a flame spread of less than 200; the 16 mm thick Structured Sunlite exhibits a flame spread of less than 75; the 8 mm thick SLT Sunlite exhibits a flame spread of less than 25. These products also exhibit a smoke-developed index of 450 or less when tested in accordance with ASTM E84.

4.0 INSTALLATION

Use of the polycarbonate extruded products is limited to applications permitted by the IBC for light-transmitting plastics and interior finish.

When use is for interior finish, installation of the polycarbonate extruded products must also be in accordance with the IBC.

5.0 CONDITIONS OF USE:

The plastic sheets described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 The products must be manufactured, installed and identified in accordance with this report and the IBC.
- 5.2 End use of the products requires justification of compliance with appropriate code requirements, including structural and durability considerations.
- 5.3 The 3 mm thick EZ Glaze; 1 mm thick Palsun UV; 0.8 mm thick Suntuf; 8 and 10 mm thick Twin Wall Sunlite; 8 and 10 mm thick Triple Wall Sunlite; 16 mm Structured Sunlite; and 8 mm SLT Sunlite products are recognized for use in skylights, exterior wall and roof panel applications provided the skylights, exterior wall and roof panel products utilizing the products are recognized in a current ICC-ES evaluation report.
- 5.4 The plastic sheets are manufactured in Kutztown, Pennsylvania, under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

- 6.1 Reports of tests in accordance with ASTM E84, ASTM D1929, ASTM D2843, and ASTM D635.
- 6.2 For recognition under the 2024, 2021, 2018, 2015, and 2012 IBC, reports of weathering (ultraviolet-light tests and comparison tension tests) in accordance with Section 4.1.2 of the [ICC-ES Acceptance Criteria for Plastic Glazed Skylights \(AC16\)](#), dated April 2020 (editorially revised August 2024).
- 6.3 For recognition under the 2009 and 2006 IBC, reports of weathering (ultraviolet-light tests and comparison tension tests) in accordance with Section A4.1.2 of the [ICC-ES Acceptance Criteria for Plastic Glazed Skylights \(AC16\)](#), dated April 2011 (editorially revised August 2013).
- 6.4 Quality documentation.

7.0 IDENTIFICATION

- 7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-1893) along with the name, registered trademark or registered logo of the report holder (Palram Americas, Inc.) must be included in the product label.
- 7.2 In addition, each sheet or bundle of sheets will bear a label that includes the Palram Americas, Inc. address, the product name, the product description and the plastic classification (CC1 or CC2, as applicable).
- 7.3 The report holder's contact information is the following:

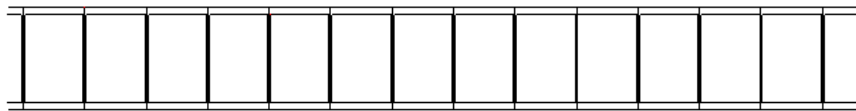
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TABLE 1—PALSUN BASIC, PALSUN UV, PALGARD, SUNTUF, AND SUNLITE SHEET PRODUCTS

PRODUCT DESCRIPTION		SHEET WEIGHTS (kg/m ²)	THICKNESS (mm)	PLASTIC CLASSIFICATION (IBC Section 2606.4)
EZ Glaze		3.6	3	CC2
Palsun Basic		1.8	1.5	CC1
		3.6	3	CC1
		14.4	12	CC1
Palsun UV		1.3	1	CC2
		3.6	3	CC1
		14.4	12	CC1
Palgard		3.6	3	CC1
		14.4	12	CC1
Suntuf		1.2	0.8	CC2
Sunlite	Twin Wall	1.5	8	CC2
		1.7	10	CC2
	Triple Wall	1.7	8	CC2
		2	10	CC2
	Structured	2.7	16	CC2
	SLT	1.5	8	CC1

For SI: 1 mm = 0.0394 inch; 1 kg = 0.454 lb; 1 m = 3.281 ft.

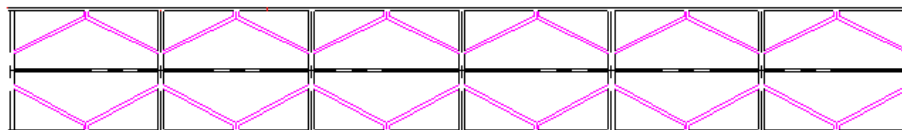
¹The sheets must be mechanically fastened to supporting members.



Twin Wall Profile



Triple Wall Profile



Structured Profile

FIGURE 1—SUNLITE MULTIWALLED PROFILES
(The SLT has the same profile as the Twin Wall.)

DIVISION: 08 00 00—OPENINGS
Section: 08 84 00—Plastic Glazing

REPORT HOLDER:

PALRAM AMERICAS, INC.

EVALUATION SUBJECT:

EZ GLAZE™, PALSUN® BASIC, PALSUN® UV, PALGARD, SUNTUF® (ALSO KNOWN AS SUNSKY® AND DYNAGLAS), AND SUNLITE® (ALSO KNOWN AS THERMAGLAS™) SERIES POLYCARBONATE EXTRUDED PLASTIC SHEETS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that EZ Glaze, Palsun Basic, Palsun UV, Palgard, Suntuf, and Sunlite series polycarbonate extruded plastic sheets, described in ICC-ES evaluation report [ESR-1893](#), have also been evaluated for compliance with the code noted below as adopted by the Los Angeles Department of Building and Safety (LADBS).

Applicable code edition:

- 2023 *City of Los Angeles Building Code* (LABC)

2.0 CONCLUSIONS

The EZ Glaze, Palsun Basic, Palsun UV, Palgard, Suntuf, and Sunlite series polycarbonate extruded plastic sheets, described in Sections 2.0 through 7.0 of the evaluation report [ESR-1893](#), comply with the LABC Chapters 8 and 26, and are subject to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The EZ Glaze, Palsun Basic, Palsun UV, Palgard, Suntuf, and Sunlite series polycarbonate extruded plastic sheets described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report [ESR-1893](#).
- The design, installation, conditions of use and identification of The EZ Glaze, Palsun Basic, Palsun UV, Palgard, Suntuf, and Sunlite series polycarbonate extruded plastic sheets are in accordance with the 2021 *International Building Code*® (IBC) provisions noted in the evaluation report [ESR-1893](#).

This supplement expires concurrently with the evaluation report, reissued March 2024 and revised September 2024.