

ICC-ES Evaluation Report

ESR-5022

Reissued July 2024


This report also contains:

- CBC Supplement

Subject to renewal July 2025

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<p>DIVISION: 08 00 00— OPENINGS</p> <p>Section: 08 84 00— Plastic Glazing</p>	<p>REPORT HOLDER:</p> <p>DAN PAL</p>	<p>EVALUATION SUBJECT:</p> <p>DANPALON® AND COMPACT® PANELS</p>	
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1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021, 2018, 2015 and 2012 [International Building Code® \(IBC\)](#)

Property evaluated:

- Light-transmitting plastics
- Surface Burning Characteristics (Danpalon 12, 16 and 22 mm only)

2.0 USES

The Danpalon® and Compact panels described in this report complies with the requirements for light-transmitting plastics in IBC Section 2606.4.

The Danpalon (12, 16 and 22 mm only) panels described in this report comply with the interior finish requirements in IBC Section 803.1.

3.0 DESCRIPTION

The Danpalon® and Compact® translucent polycarbonate panels evaluated in this report are light-transmitting plastics and have a CC1 plastic combustibility classification per IBC Section 2604.4. The Danpalon® (12mm, 16mm and 22mm only) panels have a flame-spread index of 25 or less and a smoke developed index of 450 or less when tested in accordance with ASTM E84.

The panels are available in lengths up to a 45.3-foot (1380 cm) and in various widths, thicknesses, and configurations. See [Table 1](#) and [Figure 1](#) for panel size, type, and configuration details. See [Table 2](#) for Danpal systems which utilize the Danpalon panels.

4.0 INSTALLATION

Use of the Danpalon® and Compact® panels evaluated in this report is limited to applications permitted by the IBC for light-transmitting plastics. The manufacturer’s published installation instructions and this report must be strictly adhered to.

5.0 CONDITIONS OF USE:

The Danpalon® and Compact® panels described in this report comply with, or are suitable alternatives to what is specified in, those codes indicated in Section 1.0 of this report, subject to the following conditions:

- 5.1** The panels are manufactured, installed, and identified as called for in this report, the IBC and the manufacturer’s published installation instructions. In the event of a conflict between this report and the manufacturer’s published installation instructions, this report governs.

- 5.2 End use of the panels requires justification of compliance with appropriate code requirements, including installation, structural, impact and durability considerations.
- 5.3 Use of the Danpalon and Compact panels are limited to the light-transmitting plastics requirements described in IBC Section 2606.4.
- 5.4 The Danpalon (12, 16 and 22 mm only) panels also comply with the interior finish requirements described in IBC Section 803.1.

6.0 EVIDENCE SUBMITTED

- 6.1 Reports of self-ignition tests in accordance with ASTM D1929.
- 6.2 Report of smoke density tests in accordance with ASTM D2843.
- 6.3 Report of rate of burn tests in accordance with ASTM ASTM D635.
- 6.4 Report of surface burning characteristics tests in accordance with ASTM E84.
- 6.5 Quality documentation.

7.0 IDENTIFICATION

- 7.1 The panels are identified with a label bearing the manufacturer’s name (Dan Pal), the product name (Danpalon®, Compact®), the CC1 plastic classification or flame-spread index and smoke developed index, as applicable, and the evaluation report number (ESR-5022).
- 7.2 The report holder’s contact information is the following:

DAN PAL
KIBBUTZ DAN 12245
ISRAEL
97 252-568-9988
www.danpal.com

TABLE 1—PANEL DESCRIPTIONS

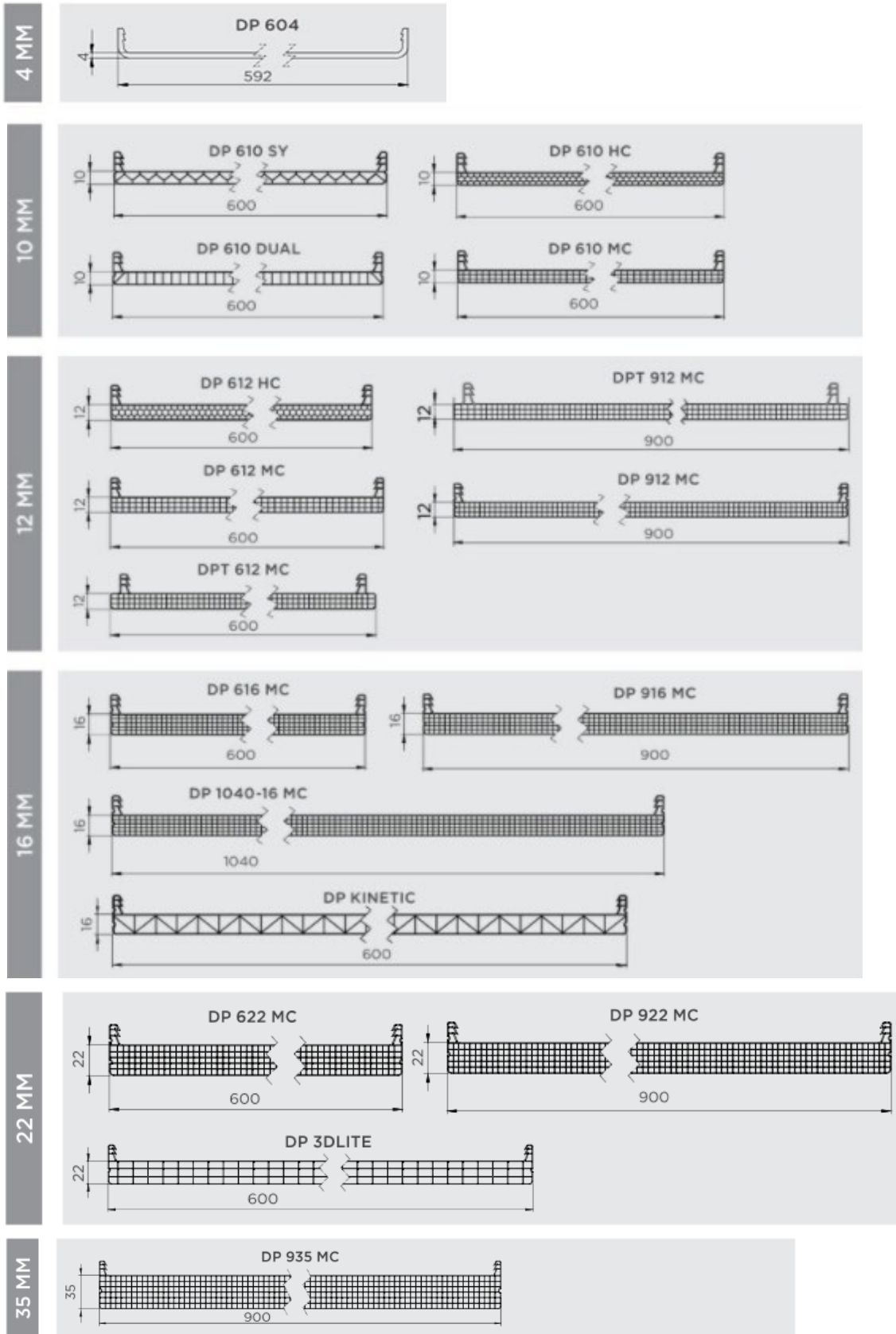
PANEL TYPE	DAN PAL MODEL	PANEL THICKNESS	CORE CONFIGURATION	PANEL WIDTH
Danpalon	DP610 MC	10mm	Multicell	600mm
	DP610 HC		Honeycomb	
	DP 610 DUAL		Dual	
	DP 610 SY		SY	
	DP612 MC and DPT612 MC	12mm	Multicell	600mm
	DP912 MC and DPT912 MC			900mm
	DP612 HC		Honeycomb	600mm
	DP616 MC	16mm	Multicell	600mm
	DP916 MC			900mm
	DP1040-16 MC		1040mm	
	DP 3D Lite		3Dlite	600 mm
	DP KINETIC	Kinetic	600mm	
	DP622 MC	22mm	Multicell	600mm
	DP922 MC			900mm
	DP 3DLITE		3Dlite	600mm
	DP 935MC	35 mm	Multicell	900 mm
Compact	DP604	4mm	Solid	600mm
Aura	Aura	30 mm	Kinetic	300 mm

For SI: 1 inch = 25.4 mm.

TABLE 2—DANPALON SYSTEMS

DANPALON PANELS	PANEL THICKNESS	CORE CONFIGURATION	PANEL WIDTH
Danpatherm (K7) Danpatherm (K12) Danpatherm (RK7)	12mm	Multicell	600mm
		Multicell	900mm
	16mm	Honeycomb	600mm
		Multicell	600mm
			900mm
			1040mm
Kinetic	600mm		
Danpalon Façade VRS	10mm	Multicell	600mm
		Honeycomb	
	12mm	Multicell	600mm
		Honeycomb	
	16mm	Multicell	600mm
			900mm
			1040mm
	Kinetic	Kinetic	600mm
			600mm
	22mm	Multicell	600mm
			900mm
3Dlite		600mm	
35 mm	Multicell	900 mm	
Danpashade	16mm	Multicell	600mm
			900mm
			1040mm
		3Dlite	600mm
	Kinetic	Kinetic	600mm
			600mm
Aura/30 mm	Kinetic	300 mm	
Danpavault	10mm	Multicell	600mm
		Honeycomb	
	12mm	Multicell	600mm
		Multicell	900mm
	16mm	Honeycomb	600mm
		Multicell	600mm
			900mm
			1040mm
Kinetic	Kinetic	600mm	

For SI: 1 inch = 25.4 mm.



Aura

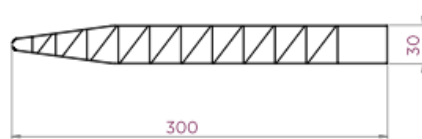


FIGURE 1—PANEL PROFILES

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

REPORT HOLDER:

DAN PAL

EVALUATION SUBJECT:

DANPALON® AND COMPACT® PANELS

1.0 REPORT PURPOSE AND SCOPE**Purpose:**

The purpose of this evaluation report supplement is to indicate that Danpalon® and Compact® panels, described in ICC-ES evaluation report ESR-5022, have also been evaluated for compliance with the code noted below.

Applicable code edition(s):

- 2022 California Building Code (CBC)

For evaluation of applicable Chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) AKA: California Department of Health Care Access and Information (HCAI) and the Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

2.0 CONCLUSIONS**2.1 CBC:**

The Danpalon® and Compact® panels, described in Sections 2.0 through 7.0 of the evaluation report ESR-5022, comply with CBC Chapters 8 and 26, provided the design and installation are in accordance with the 2021 *International Building Code*® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 8 and 26, as applicable.

2.1.1 OSHPD:

The applicable OSHPD Sections and Chapters of the CBC are beyond the scope of this supplement.

2.1.2 DSA:

The applicable DSA Sections and Chapters of the CBC are beyond the scope of this supplement.

This supplement expires concurrently with the evaluation report, reissued July 2024.