



DANPAL® FAÇADE SYSTEMS

Single Glazed
Translucent Façades



NORTH AMERICA

SINGLE GLAZED TRANSLUCENT FAÇADES



SINCE DANPAL® FIRST PIONEERED THE CONCEPT OF MECHANICALLY LOCKED POLYCARBONATE FAÇADES, THEIR SYSTEMS HAVE TAKEN THE ARCHITECTURAL WORLD BY STORM WITH OUTSTANDING TECHNICAL AND AESTHETIC FEATURES. THE LARGE VARIETY OF COLORS, FINISHES AND SPECIAL EFFECTS PROVIDE A DAZZLING ARRAY OF CREATIVE OPTIONS.

Danpal® Single Glazed Façades are translucent dry glazed systems available in a variety of configurations for various types of structures. Danpalon® Façade is lightweight and offers excellent weather protection with high impact resistance, thermal performance and spanning capabilities.

Suwon High Golf, Korea | Danpal® Single Façade System 16mm
Architect: Jeongrim

THE OPTIMAL BALANCE OF SOLAR AND THERMAL DYNAMICS



Fashion NEPA | Danpal® Single Façade System 16mm
Architect: Mark Fran / de plus



Gunsan Education and Culture Center, Swimming Pool,
South Korea | Danpal® Single Façade System 16mm |
Architect: Moohan Design

When it comes to the perfect Façade, finding the equilibrium is key. Excess light results in undesired glare and uncomfortable amounts of heat. Using materials with superior flexibility, transparency, and tonal qualities compared to glass, Danpal® delivers the perfect balance of light and thermal dynamics for any Façade. With superior insulating properties, Danpal's Façade systems ensure good thermal comfort. Their unique translucency also ensures optimum visual comfort with even light diffusion.

Giving architects the ability to play with light

Building design professionals can control the amount of light, hide various building elements or create intriguing visual contrasts by integrating with conventional glazing. Our extensive range of colors, textures, finishes and lighting effects offer a rich palette of options for creating inspired Façades - illuminating by day and transforming into light landmarks at night.

Translucent glazing - superior light diffusion

The glazing panel's unique structure transmits an even diffusion of natural light. Specifically designed for architectural daylight applications, the tight spacing between the ribs produces an aesthetically appealing look.

Unparalleled design flexibility

Concealed joints create a flush external that can warp and twist if necessary.

High security

The double "click" locking seam enables higher load resistance.

High thermal insulation

Danpal® façade's unique cell structure generates superior thermal insulation. The subsequent improvements in 'U' and 'R' values offer significant benefits to the overall energy efficiency of a building.

UNIQUE BENEFITS:

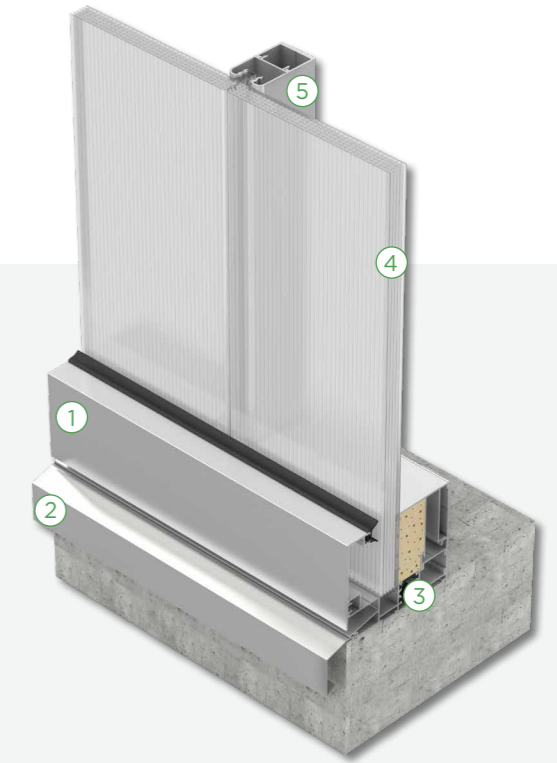
- High impact resistance
- UV protection
- Evenly diffused light
- Lightweight
- Freedom of design
- Superior air and water protection
- Highly secure
- Certified system
- Easy installation
- Made with Microcell technology



Blackburn Youth Zone Center, United Kingdom
Danpal® Single System 16mm | Architect: Jackson Teese



Seorak Rodeo Parking Facility, South Korea
Danpal® Façade System, Danpal® Roofing System | Architect: Soyul architects



1. Thermally broken aluminum frame.
2. Perimeter designed to work with multiple building designs and code requirements.
3. Improve overall performance with optional insert.
4. System framing accepts multiple Danpalon® panel thickness
5. Integrated design allows for multiple connectors for increased performance

High impact resistance & strength

The panel's special micro cell structure offers the highest resistance to impact and hail damage.

Superior air and water protection

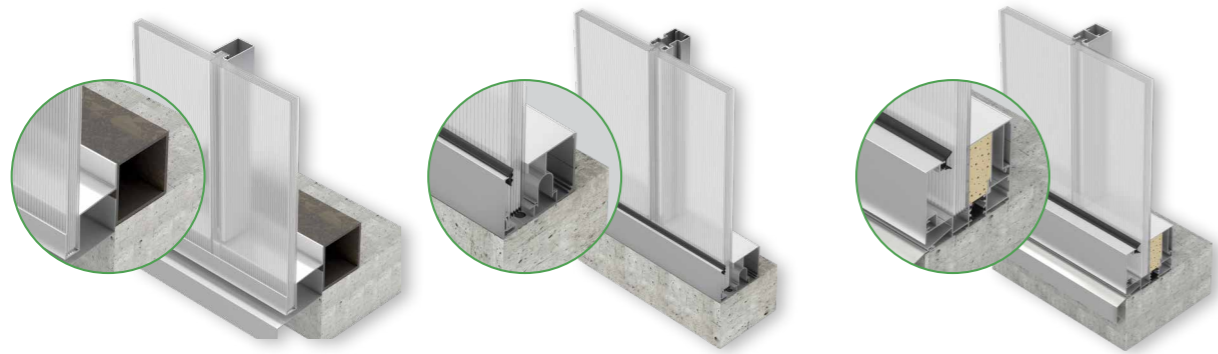
The snap-lock connection system ensures air and water cannot penetrate into the building

Extended UV protection

The Danpal® Façade system offers the highest quality co-extended UV protection, guaranteeing a longer system life.

Easy construction

Quick, simple and cost effective installation.



TRADITIONAL TP SYSTEM	ADVANCED NM SYSTEM	HIGH PERFORMANCE AIRPT SYSTEM
Economical facade system for basic performance	Advanced facade system with increased design flexibility	HIGH PERFORMANCE THERMALLY BROKEN FACADE SYSTEM
<ul style="list-style-type: none"> Simple, economical solution Lightweight Flexible design allows for easy installation 	Integrated frame for complete protection against air and water infiltration. <ul style="list-style-type: none"> Designed for multiple panel thicknesses and widths. Improved thermal performance Accepts multiple connectors for longer spans Provides a clean, elegant finish 	

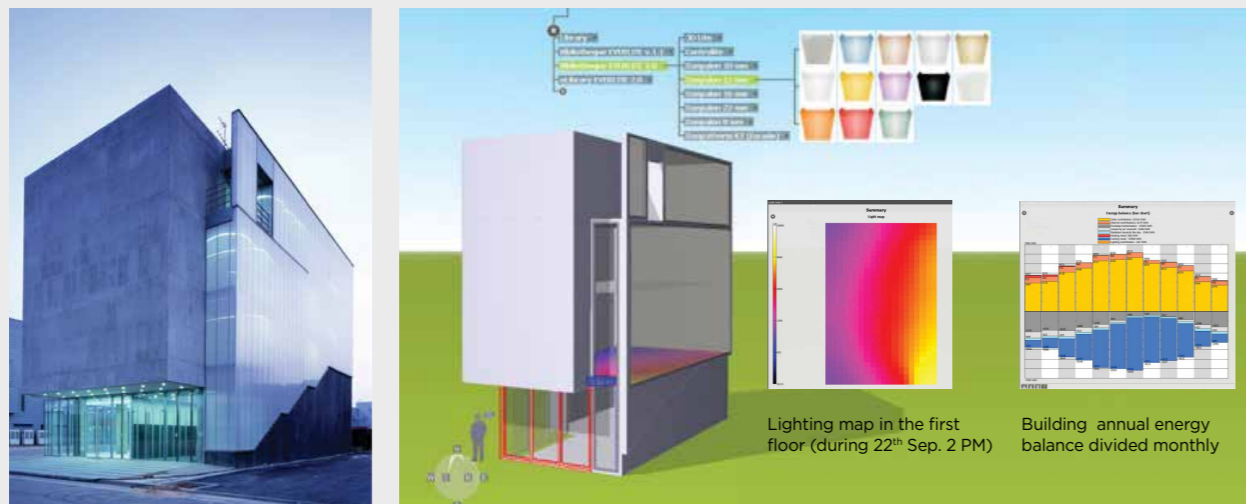
TECHNICAL FEATURES

	600, 900, 1040	STANDARD	
Panel length	up to 12m (39.370')	600mm (23-5/8") 900mm (35-7/16")	
Flame spread	Class A	ASTM E84	
Smoke density Ignition temperature Rate of burn	CC1	ASTM D2843 ASTM D1929 ASTM D635	
Reaction to fire	B-s1,d0	Norm NF EN13501-1: 2002 P.V. LNE M071009 - DE/5 ; DE/9	
U value	based on panel thickness	ASTM C1363 CSTB: DER/HTO 2010-022-FL/LS DER/HTO 2011-091-RB/LS et DER/HTO 2011-288-RB/LS	
Light transmission	based on color and thickness	norm ASHRAE 74	
Warranty	10 years	Danpal warranty policy	
Impact and cycling	Lg missile impact - Level D, Wind Zone 3, Cycling at 60psf		
Impact and shock resistance	M50-100 J, 130 J, 900 J as standard NF P 08-302		
ICC ESR	ESR-5022		
Glazing options	TP system	NM system	AirPT system
	16, 22 mm Kinetic, 3DLITE	10, 12, 16, 22 mm Kinetic, 3DLITE	16, 22, 35 mm Kinetic, 3DLITE

NEXT GENERATION INTERNAL SOLAR AND THERMAL SIMULATION

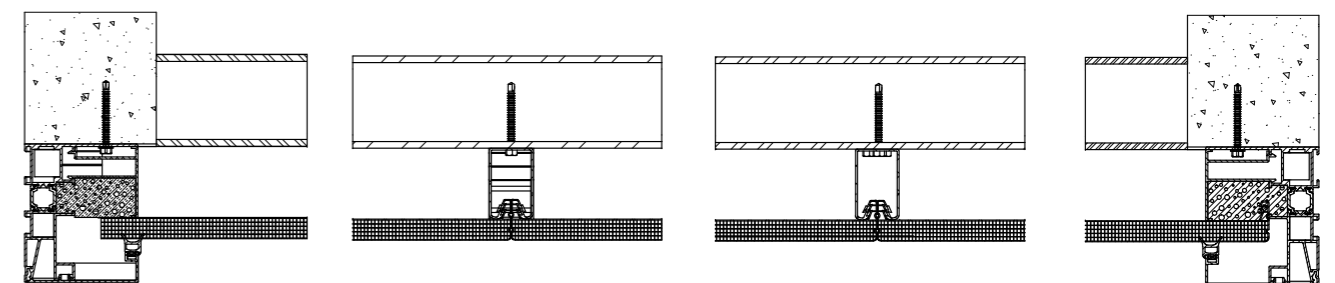
Danpal® uses state-of-the-art software to predict and plan the amount of daylight through the façade. Taking into account the systems' physical characteristics (light transmission, solar factor, U value, etc.), it creates a simulation of daylight and quantifies the amount of daylight transmitted through the building envelope. It can simulate natural light levels and energy consumption across the entire structure by combining local climatic data with the physical characteristics of the systems. Architects can experiment with various product specification options and material areas to create the perfect Façade according to the project's lighting and energy requirements, ensuring optimum energy efficiency and visual comfort without glare.

- Dynamic internal daylight map simulation
- Dynamic internal energy consumption simulation

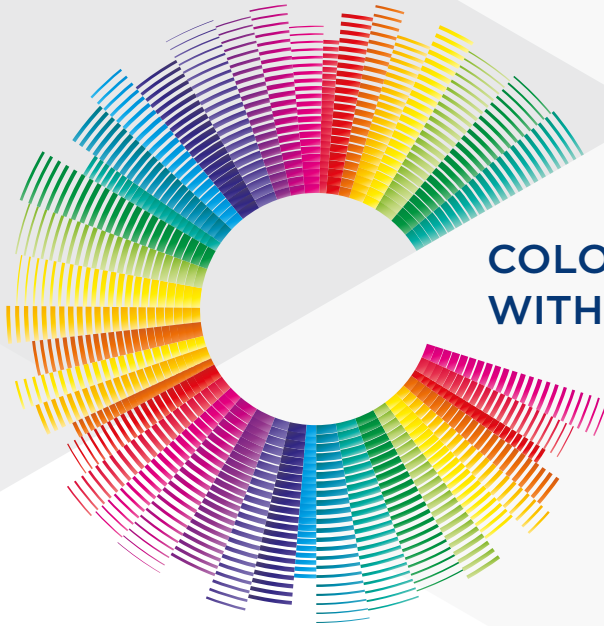


Car dealership, Israel | Controlite® Skylight

STANDARD SECTIONAL DRAWINGS OF AIRPT SYSTEM



* Danpal is engaged in constant innovation. We reserve the right to modify our products, specifications and test data. Contact Danpal Technical Support for the most up to date information.



COLOR YOUR ATMOSPHERE WITH THE DANPAL® PALETTE

ABOUT THE COMPANY

Innovative light architecture systems for building envelopes

Danpal® are creators of exceptional light-transmitting architectural systems for building envelopes, providing optimal solar and thermal comfort.

For 50 years, our innovative systems have helped architects to transform light (both natural and artificial) into a powerful and versatile tool, for architectural creations that are internally and externally radiant.

An industry visionary, Danpal® are originators of the Danpalon® translucent panel standing seam system - a light architecture solution used around the world in commercial, education, transport, health, sports and high-tech projects.

Today, the company offers complete systems - providing total solutions for the building envelope. Danpal® designs, manufactures and distributes an unmatched range of daylighting systems for all types of building requirements - from Façades, cladding, roofs, skylights, shading, to interior and outdoor applications.

Danpal® systems are built around innovative technologies, deep architectural know-how and the ever evolving needs of our clients. Operating in five continents, Danpal® inspires architectural creativity with its rainbow of light architecture solutions.

Danpal® Single Glazed Façade is an integral part of Danpal's range of systems - giving you a complete solution



FAÇADE



CLADDING



SKYLIGHT



OUTDOOR



SHADING



INTERIOR

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