



# DANPATHERM<sup>®</sup>

Unitized Large-Spanning High  
Insulation System for Façades



FAÇADE

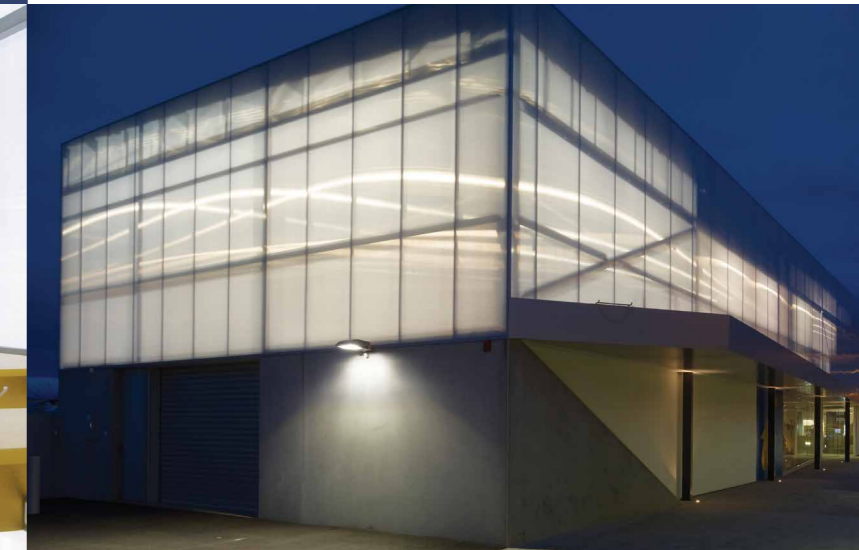


NORTH AMERICA

# UNITIZED LARGE-SPANNING HIGH INSULATION SYSTEM FOR FAÇADES



Cantine, Aigurande School, France  
Danpatherm K7 | Architect: Bruno  
Robinne Architecte



**AN INNOVATIVE FACTORY  
ASSEMBLED “READY-TO-INSTALL”  
SYSTEM FOR TRANSLUCENT  
FAÇADES OFFERING EXCELLENT  
SPANNING CAPABILITIES AND  
THERMAL INSULATION**

#### **Unitized System for Clean & Quick Installation**

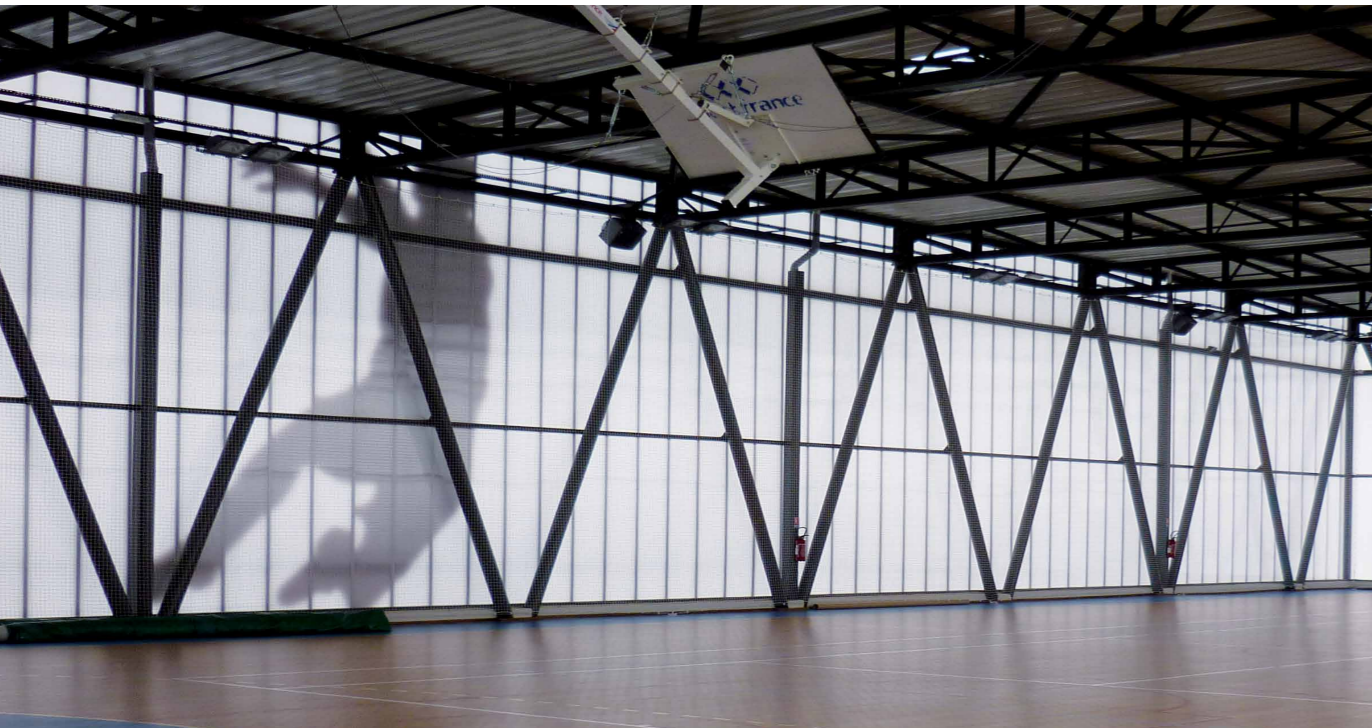
- Danpatherm is a unitized panel system that is pre-fabricated off-site.
- It is quick and easy to install, reducing field labor costs and construction times.
- Danpatherm prevents moisture and dirt penetrating between the panels.
- External panels can be removed if necessary without affecting the building envelope.

#### **Excellent Thermal Insulation, Load Resistance and Spanning Capabilities**

- The Danpatherm system is versatile and allows you to choose multiple system U-values levels from 0.25 to a low 0.15 (BTU/hr ft<sup>2</sup> °F for K12 or K7 system).
- Unparalleled wind load resistance and large missile impact allows for spans of 12 feet or more. This significantly reduces the requirements for secondary steel framing which can reduce the overall cost and environmental impact on the project.

## CREATE INNER CALM WITH SOFT, DIFFUSED LIGHT

Danpatherm double glazing features Softlite, a special matte finish inherently manufactured into the panels that ensures even transmission of light and eliminates glare. With softlite interiors are evenly lit with a gentle and diffused light. Softlite is one of a wide range of finishes offered by Danpal®.



Sports Complexes | France, Danpatherm K7 with HP | Architect: Agence Didier Richard

## DANPATHERM DESCRIPTION



1. Thermally broken facade frame
2. Interior and exterior Danpalon® panels- min 12mm thick- 600/900mm wide
3. Light diffuser insulation if required



School, Korea | Danpatherm 16x10mm | Architect: Gansam



Simone Veil School, France  
© Daniel Moulinet



Automotive And Mobility Services Campus, France  
© Daniel Moulinet

### SYSTEM BENEFITS

- Exceptional thermal insulation
- Factory pre-assembled cassette
- Quick and easy installation
- Clean look – no visible aluminium
- Variable levels of light transmission
- Unparalleled wind load resistance



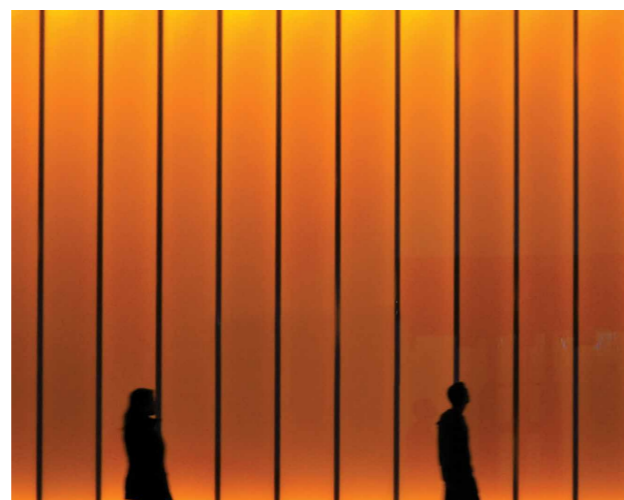
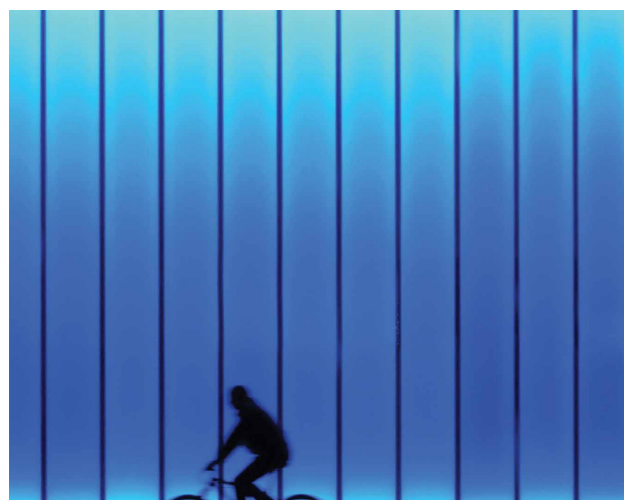
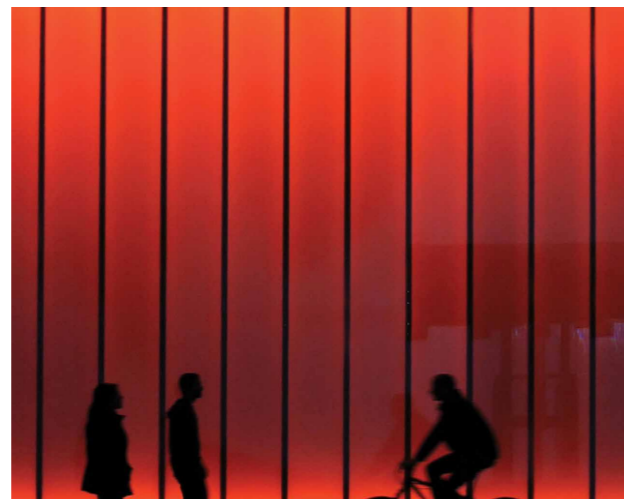
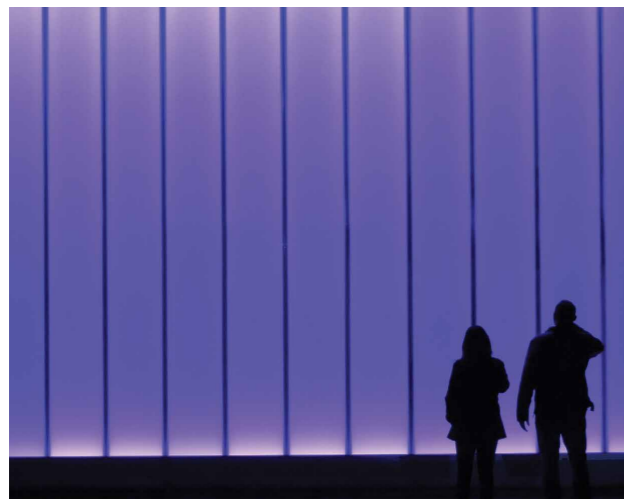
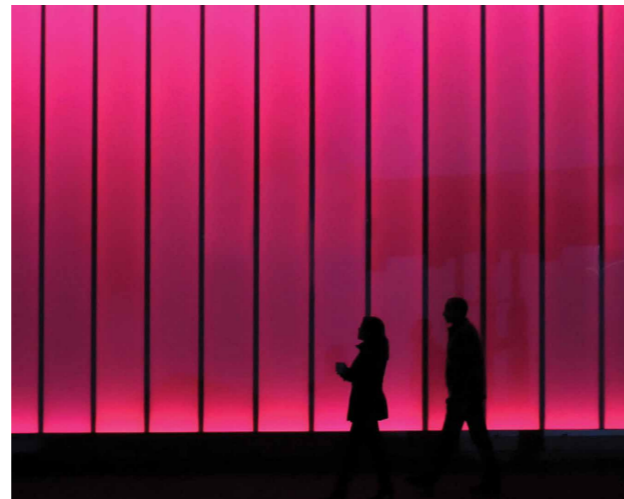
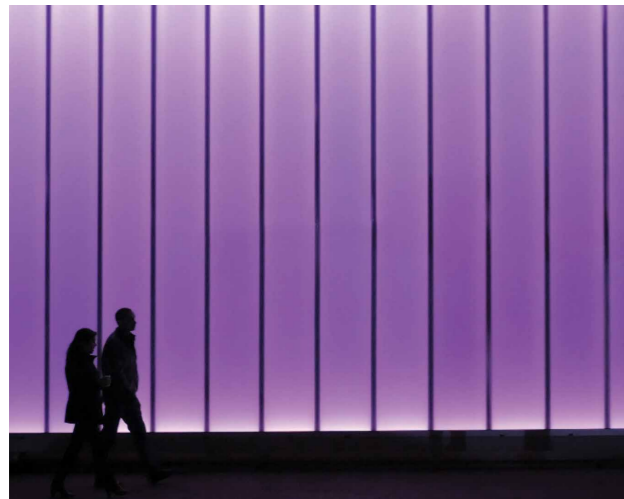
# DANPATHERM LED

ENJOY DAYLIGHT BENEFITS DURING THE DAY.

TURN YOUR BUILDING INTO A LIGHT BOX AT NIGHT.

## Artificial Lighting Inside Danpatherm

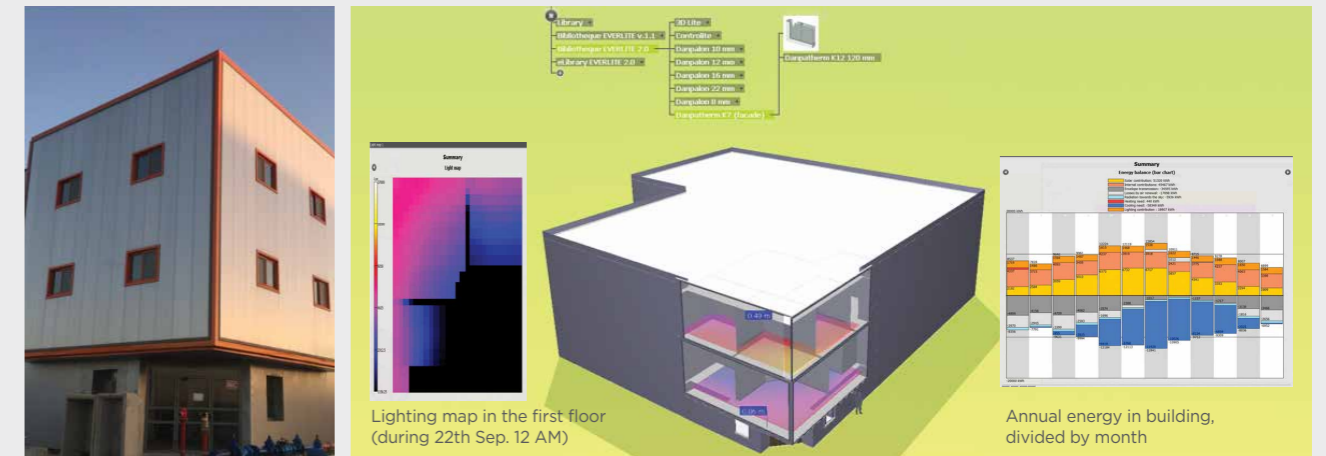
- Pre-fabricated cassette system integrated with a complete LED lighting system
- Long lasting, durable Façade system
- Artificial lighting for endless design possibilities at night



## INTERNAL SOLAR AND THERMAL BEHAVIOUR SIMULATION

Danpal® offers a unique tool which can simulate visual and thermal comfort levels for a proposed building design. Using climatic data averages for the location of a given project, Danpal's Smart Energy Simulator can accurately predict internal daylight levels and building energy consumption. This allows the energy cost saving and environmental benefits of using Danpatherm to be quantified early in the design process.

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



Office building, Israel | Light Simulation

## TECHNICAL FEATURES

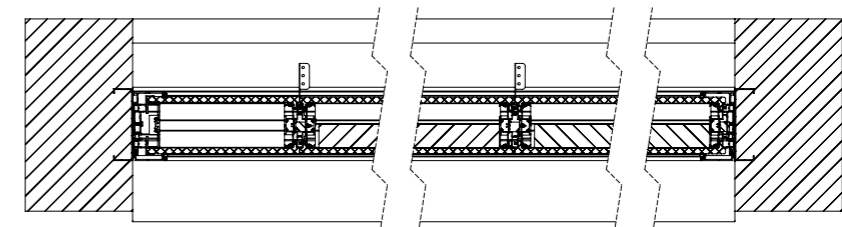
PRODUCT	DANPATHERM K7	DANPATHERM K12
Installation module	624mm (24-9/16")   924mm (36-3/8")	600mm (23-5/8")   900mm (35-7/16")
Configuration	12mm/12mm or 12mm/16mm available with and without insulation	12mm/12mm glazing panels available with and without insulation
Glazing structure	Honeycomb/multicell	Multicell
Cassette thickness	70mm (2-3/4")	120mm (4-3/4")
U-Factor (BTU/hr ft <sup>2</sup> F)	0.25 - 0.15	0.25 - 0.15*
Light transmission cassette	Up to 45%	Up to 40%
Free span between supports	3m (9'-10") @ 60psf	3.6m (12'-0") @ 65psf**
10 year warranty	Standard	
Flame spread (ASTM E84)	Class A	
Smoke density (ASTM D2843)	CC1	
Ignition temperature (ASTM D1929)		
Rate of burn (ASTM D635)		
Impact and cycling	Lg missile impact - Level D, Wind Zone 3, Cycling at 40psf	
Impact and shock resistance	M50-100 J, 130 J, 900 J as standard NF P 08-302	
ICC ESR	ESR-5022	
Acoustic	up to Rx (C,Ctr)=32 (-1,-5)dB	

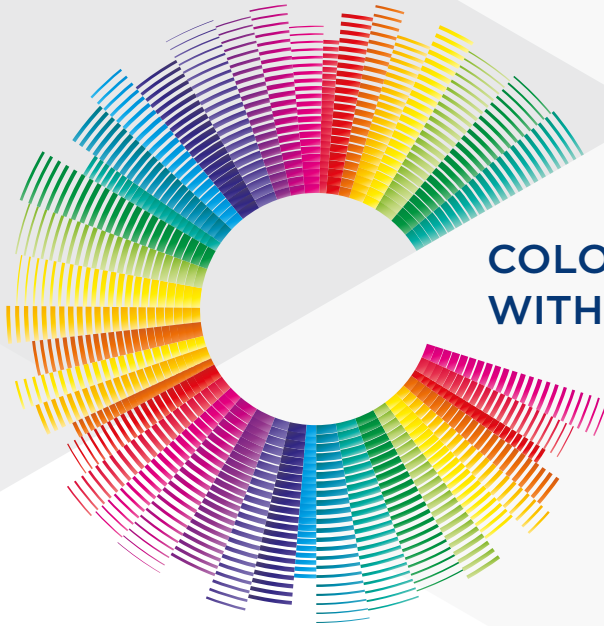
\* System U-Value per NFRC

\*\* per ASTM E330

\* 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.

## DANPATHERM BETWEEN WALLS - TOP VIEW





## 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, skylight, 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.

#### Danpatherm is an integral part of Danpal's range of systems - giving you a complete solution



FAÇADE



CLADDING



SKYLIGHT



OUTDOOR



SHADING



INTERIOR

[www.danpal.com](http://www.danpal.com)

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