

DANPAL® VRS

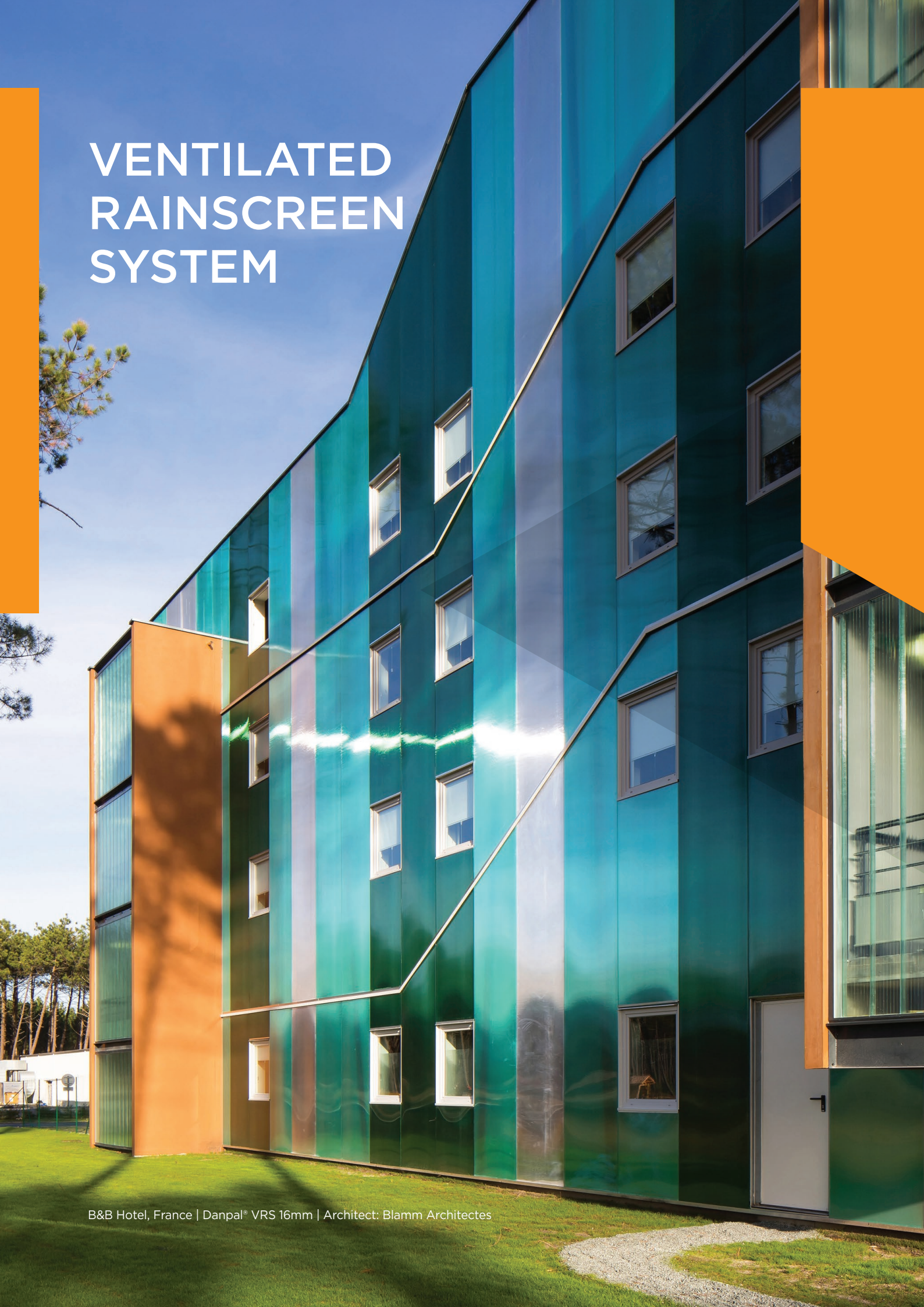
Ventilated Rainscreen System



CLADDING

Danpal® Light Architecture

VENTILATED RAINSCREEN SYSTEM



B&B Hotel, France | Danpal® VRS 16mm | Architect: Blamm Architectes

PROVIDES AN APPEALING EXTERIOR, GIVING BUILDINGS A NEW LOOK



After


Before

Complies with the relevant building regulation requirements, maintains insulation efficiency while providing an appealing exterior design to new or refurbished buildings.

Protects insulation

Buildings account for around 40% of primary energy consumption in most IEA countries. Therefore, insulation is critical. The principle of Danpal® VRS is to provide a full system incorporating the trusted Danpalon® panel that fully protects the insulation.

Ventilation maintains insulation efficiency

Based on natural ventilation by means of an air gap, the convective motion behind the panels keeps the insulation dry and maintains its efficiency over time.

Light but solid cladding

Danpal® VRS is made of connector-bound microcell polycarbonate panels that are three times lighter than traditional rainscreen cladding.

Simple & rapid installation

Connections are made directly on the support, thus eliminating the need for additional supporting framed structures.

Perfect water-tightness

The exclusive double notching of the Danpal® VRS panels ensures perfect water-tightness.

A universal concept

The Danpal® VRS connectors attach to the building in a way that is compatible with most types of structures.

Wide range of hues for endless creativity

Available in various shades, from sparkling to bright, opaque, metallic, bicolour, shiny or matt (Softlite finishing), Danpal® VRS envelopes your building in the light and reflections of your choice.

DANPAL® VRS PROVIDES THE BUILDING WITH A NEW, REVITALIZED APPEARANCE



Odyssey, France | Danpal® VRS 16mm | Architect: ARLAB

EASY AND ECONOMICAL INSTALLATION

Danpal's VRS solution has been developed for easy and economical installation. It is up to three times lighter than traditional laminated cladding, uses the trusted Danpalon® connection system and can be installed on all types of supports.
Danpal® VRS brackets can be fixed directly to the load bearing wall or structural supports without the need for an additional frame.



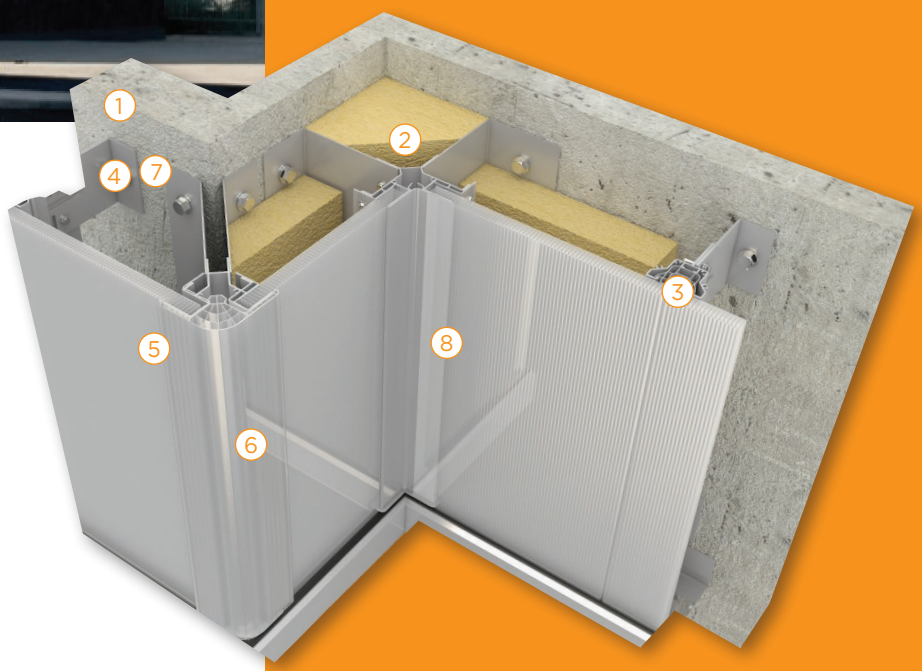




OPAC, France | Danpal® VRS
Architect: Philippe Dubus - Mme De l'Espinay

SYSTEM BENEFITS

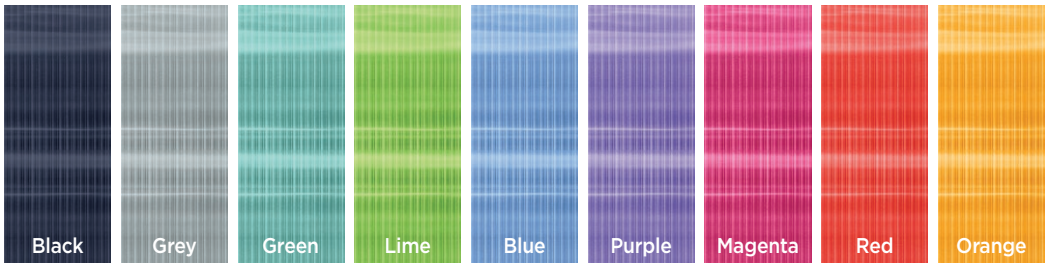
- Lightweight
- 100% waterproof
- Quick, easy and cost effective installation
- Unparalleled choice of designs and colours
- Significant panel lengths (Up to 12.0m standard lengths, longer upon request)
- Environmentally friendly
- No waste



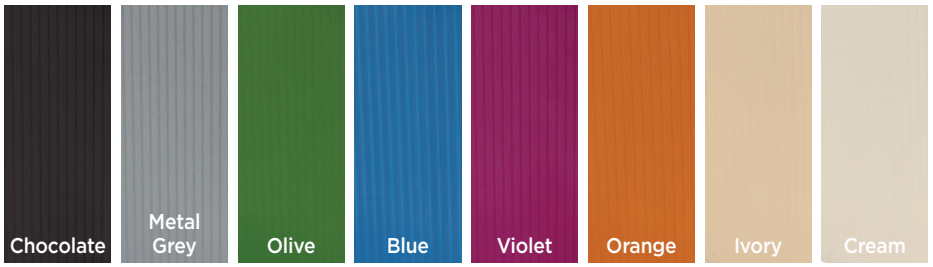
1. Wall structure
2. Insulation material
3. Connector
4. Wall brackets
5. Danpalon® panel
6. VRS polycarbonate external corner
7. Angled wall bracket to support external corner
8. Aluminium internal corner

BRINGING YOU BRILLIANT LIGHT, REFLECTIONS & COLOURS

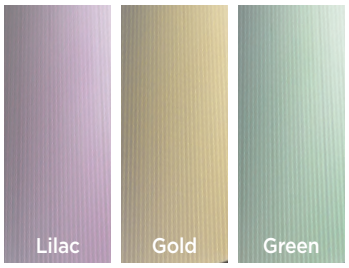
COLOURFUL



OPAQUE



PEARLS



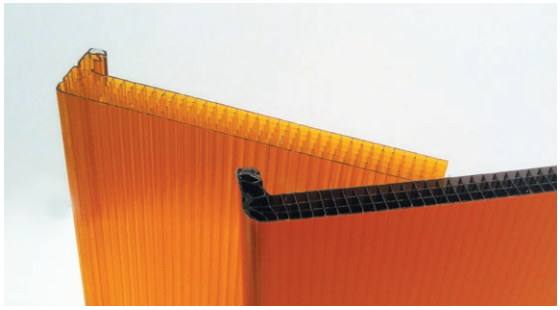
METALLIC



SHADES OF WHITE

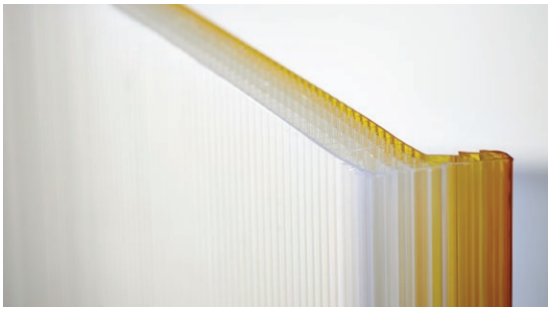


OPAQUE AND TRANSLUCENT



For bright colours with a metallic, lacquered appearance, choose the opaque panels available in a wide range of tints. With Danpal®'s translucent range, the appearance of the building changes with the light and reflections projected onto the facade at different times of day.

BICOLOUR FOR SPECIAL EFFECT



Our bicolour option enables you to perfectly adapt your facades to the effect you desire both inside and outside. It is available in the colours of your choice for all Danpal systems (subject to minimum quantities and lead times).



ZIP Hotel, Korea | Danpal® VRS 16mm | Architect: Shineu Achitecture

TECHNICAL FEATURES

		DANPAL® VRS / 16 MM	DANPAL® VRS / 12 MM
Installation module		600-900-1040 mm	600-900 mm
Structure		Multicell (MC)	
System reaction to fire*		EN 13501-1, B- s3, D0	
Impact and shock resistance		PV CSTB CLC 11-26031579	
Wind resistance		PV CSTB CLC 09-26019639	
Average system weight (panels + connectors)	Frame 600 mm	5.0 kg/m²	4.35 kg/m²
	Frame 900 mm	4.5 kg/m²	3.55 kg/m²
	Frame 1040 mm	4.1 kg/m²	-
Calculation of maximum Danpal® cladding temperature		According to DER / HTO 2009 - 209	
Technical Book		CSTB avis technique 2/13 1552	
Softlite		May be applied to any colour to provide a matt finish	
HP		Can be added with any colour except Softlite	

* Complies with seismic action described in the EuroCode 8

SPAN-LOAD TABLE

3 SUPPORT - KG/SQM FOR ALUMINIUM U HD CONNECTOR

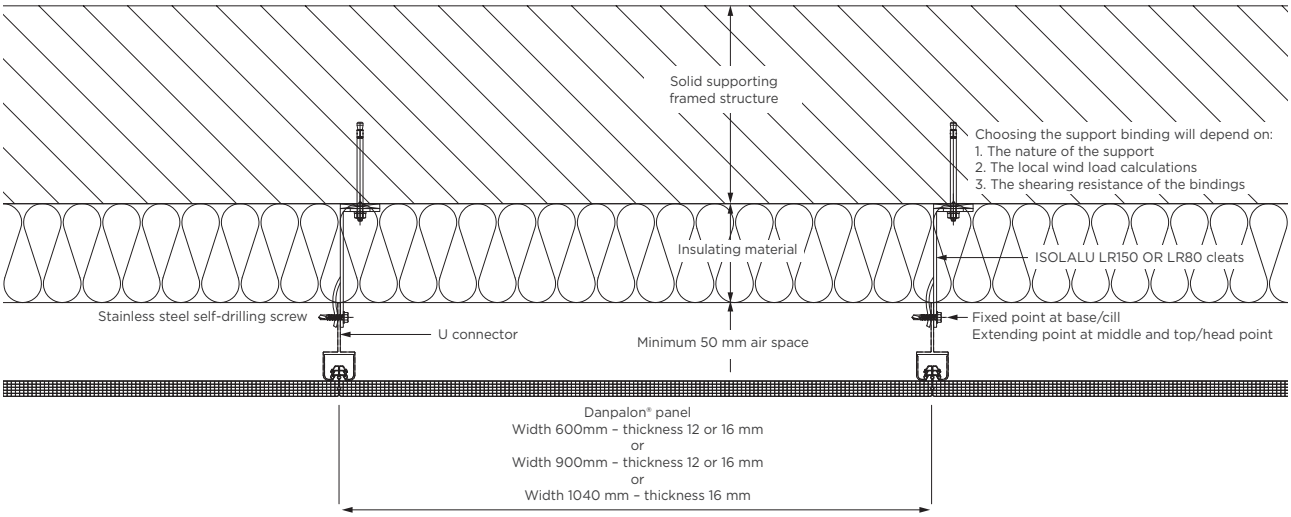
MODULE	THICKNESS	1.5M	2M	2.5M
600	MC 12	180	180	180
	MC 16 mm	330	284	230
900	MC 12 mm	120	120	100
	MC 16 mm	264	180	140

* Safety factor from system collapse = 1.5

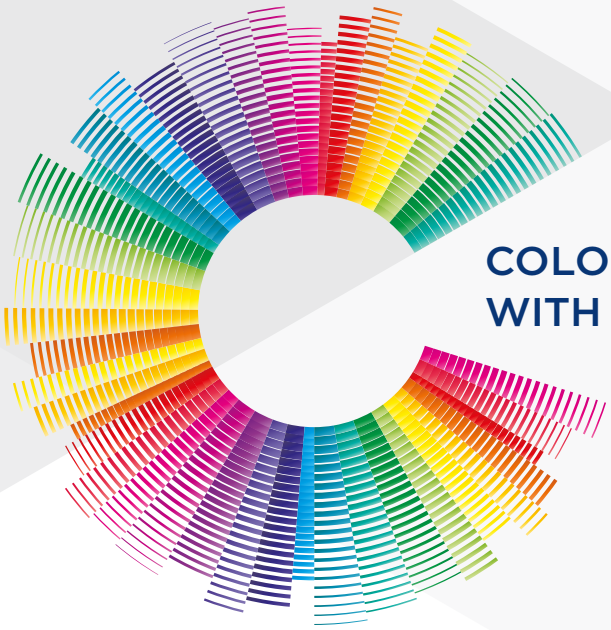
** Maximum deflection <2% of the distance between purlins and not more than 50mm.

*** Figures in table are for middle span. When installing end span reduce span by 20%.

STANDARD SECTIONAL DRAWINGS - WALL



- Danpal® VRS is an innovative system that allows a continuous ventilation space of at least 50 mm between the internal side of the Danpalon® panel and the insulation material or the supporting facade.
- Ventilation sections should be designed into the sill and head sections to ensure constant airflow. These sections are calculated according to the facade exposure, and the shade and thickness of the panels.
- Please discuss specific design requirements with our technical and design department.



COLOUR 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.

Danpal® Roofing System are an integral part of Danpal's range of systems - giving you a complete solution

FAÇADE CLADDING SKYLIGHT OUTDOOR SHADING INTERIOR

88-999413/2

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Danpal® Light Architecture