



DANPAL[®] VRS

Ventilated Rainscreen System

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CLADDING



DANPAL® VRS SYSTEM

VENTILATED RAINSCREEN SYSTEM

Provides Visually Attractive and Waterproof Protection with Superior Insulation



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Projects References



Architect: SCP Beguin & Macchini - Architects D.E.N.S.A.I.S,
France



CLADDING SYSTEM HAVE 3 MAIN PURPOSES:

1

Reducing buliding energy consumption

2

Improving structure's water tightness

3

Aesthetic Look

Before

After



Architect: Blamm Architects, France



Danpal[®]
Light Architecture

WITH AND WITHOUT CLADDING

Before



After

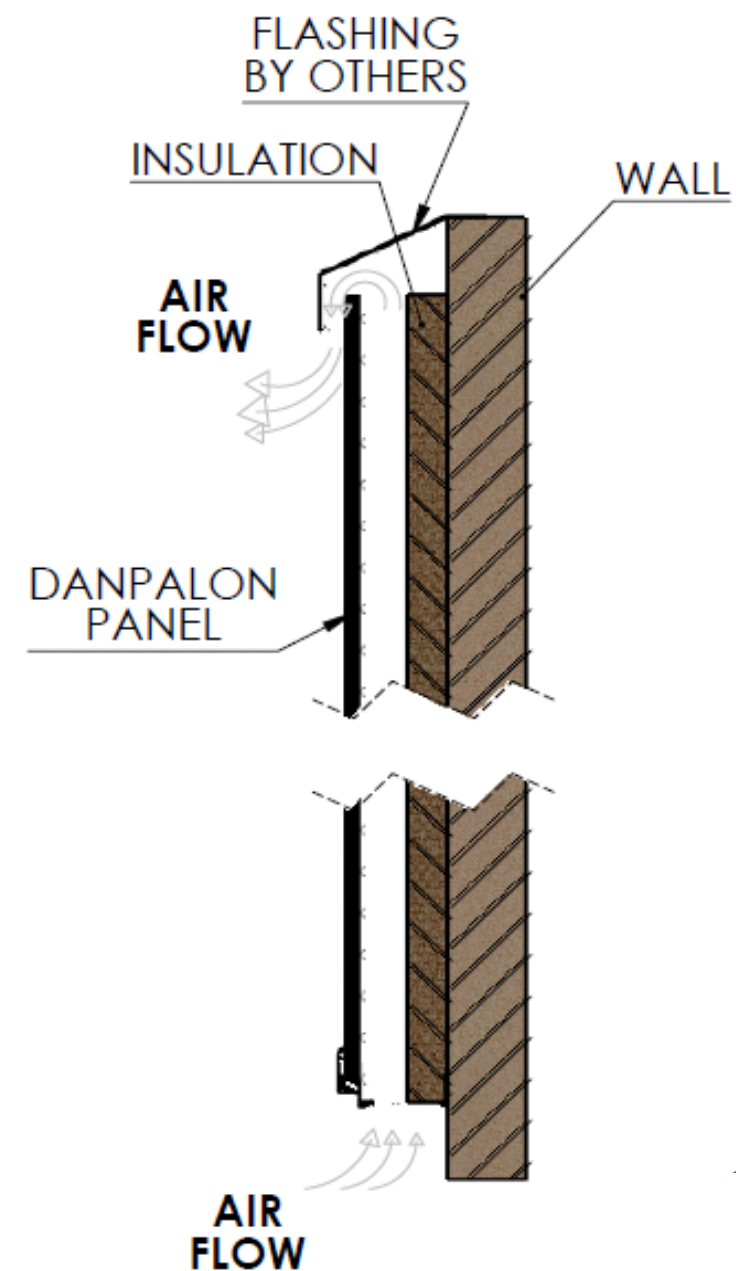


DESCRIPTION

VRS stands for Ventilated Rain Screen i.e. vented cladding

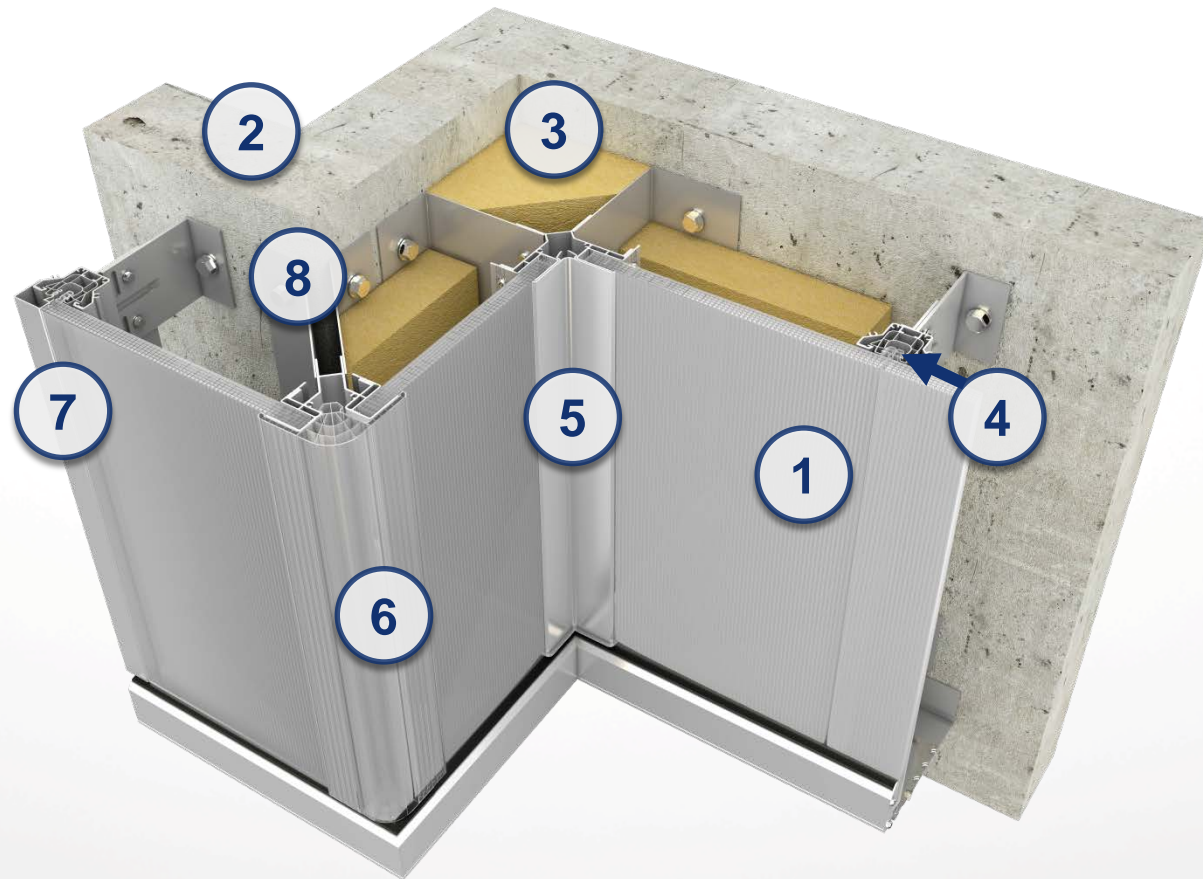


Architect: Jean-Michel Jacquet, France



DESCRIPTION

1. Danpalon panel (12 / 16 mm)
2. Building external wall
3. Insulation material (optional)
4. Expansion connector (other Connectors available as well)
5. Internal corner (aluminium cover)
6. External corner (Polycarbonate or aluminium are available)
7. Panel edge
8. Wall mount fastener



SYSTEM BENEFIT

- **Light & solid cladding**
Danpal® VRS system is three times lighter than traditional rain screen cladding systems .
- **Simple installation**
Installation made directly on the support, thus eliminating the need for additional supporting framed structures.
- **Rapid installation**
Panels can be supplied with a long length according to project requirements.
- **Perfect water-tightness**
The exclusive double notching of the Danpal® VRS panels ensures perfect water-tightness.
- **A universal concept**
The Danpal® VRS system attach to the building in a way that is compatible with most types of structures.

PANEL SURFACE FINISH

We Offer a Range of Panel Surface Finishes According to Environmental Conditions and Architectural Requirements

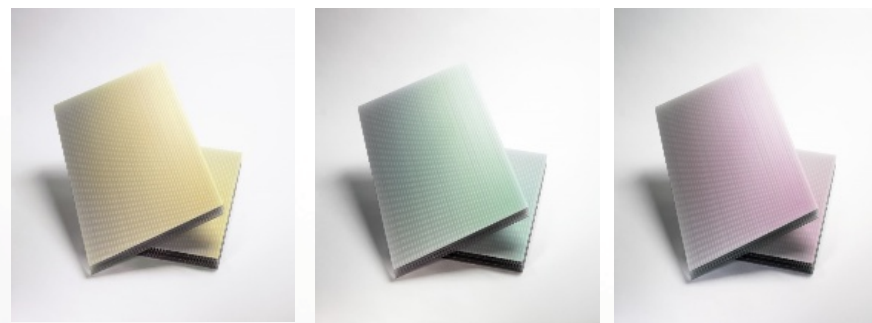
SOFTLITE FOR VISUAL COMFORT

Softlite finishing greatly diminishes glare effects. Softlite is a 100% permanent matt finish applied by co-extrusion on Danpalon® panels of any thickness and colour. The Softlite finishing performance is independently validated to



LOW-E

Infrared treatment is a co-extruded finish that can be applied in all panels. It can significantly limit solar heat gain without affecting light transmission levels.



HP HIGH PROTECTION TREATMENT

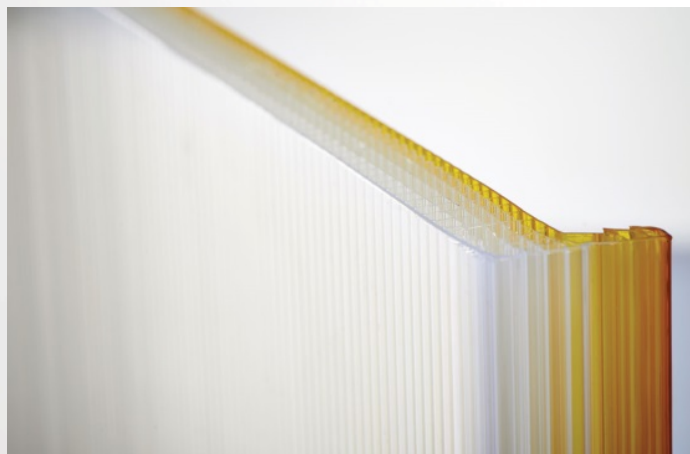
Danpalon® HP is an advanced surface treatment that enables higher performance in areas of graffiti removal and protection against environmental pollution.



PANEL SURFACE FINISH

BI-COLOR

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



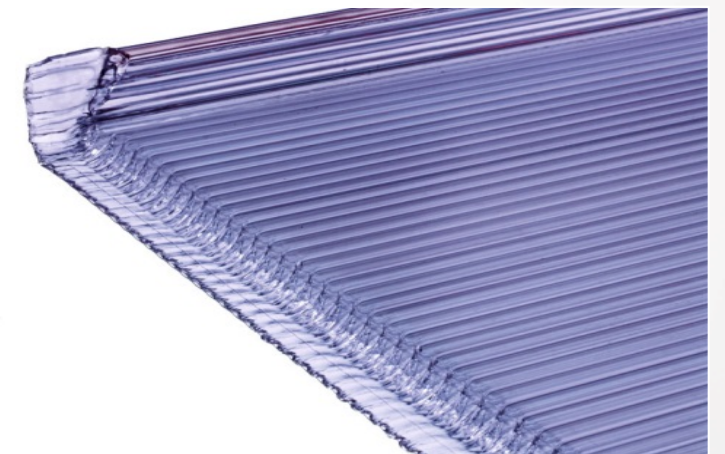
OPAQUE AND TRANSLUCENT

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.



HOT WELDED EDGE

The welded edges provide a clean and effective solution that prevents water, dirt or insects from getting inside the microcells.



VARIETY OF COLORS

<http://danpal.com/architects-inspiration/color/>



PROPERTIES

		DANPAL® VRS / 16 MM	DANPAL® VRS / 12 MM
Installation module		600-900-1040mm	600-900mm
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	5.0kg/m ²	4.35kg/m ²
	Frame 900 mm	4.5kg/m ²	3.55kg/m ²
	Frame 1040 mm	4.1kg/m ²	-
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 color to provide a matt finish	
HP		Can be added with any color except Softlite	

STANDARDS & CERTIFICATION

The following tests and studies have been carried out:

- Ageing tests according to ISO 4892-1 and .2
- Fire reaction test according to NF EN 13501-1+A1: .2013
- Load tests according to CSTB 3489 test procedures.
- Impact tests (soft and hard) according to CSTB CLC 11-26013579 test report.
- Thermal behavior study of the air flow behind the Danpalon panels by CSTB references 2009-209 and .2013-151
- Seismicity tests according to CSTB EEM 12 26039656 test report.

DANPAL VRS vs. Other cladding options

VRS strengths comparing to other ventilated solutions in the market

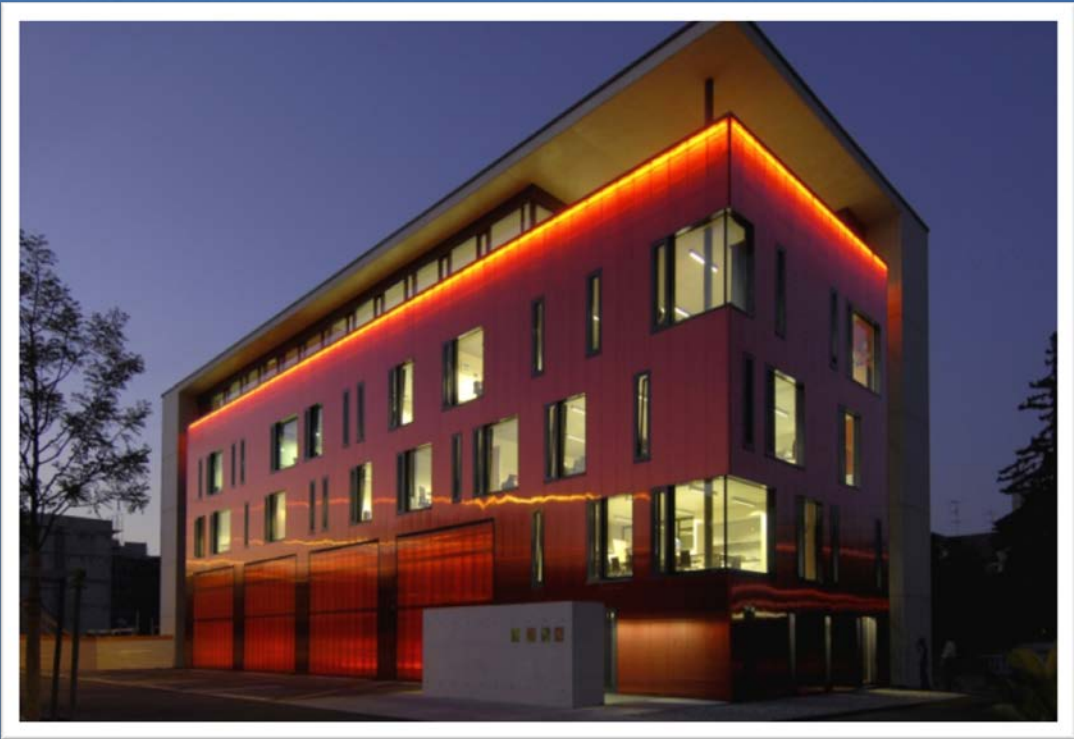
	Danpal VRS	Laminated panels (HPL (Alu based composite panels	Concrete based composite panels	Ceramic systems
% 100Water proof	✓	✗	✗	✗	✗
System Weight	✓	3 - 2 times heavier ✗	2times heavier ✗	3times heavier ✗	10times heavier ✗
Color options	✓	✓	✓	✗	✓
Fast installation	✓	✗	✗	✗	✗
Unique 3 dimensional look	✓	✗	✗	✗	✗

PROJECTS REFERENCES

Architect: Philippe Dubus - Mme De l'Espinay, France



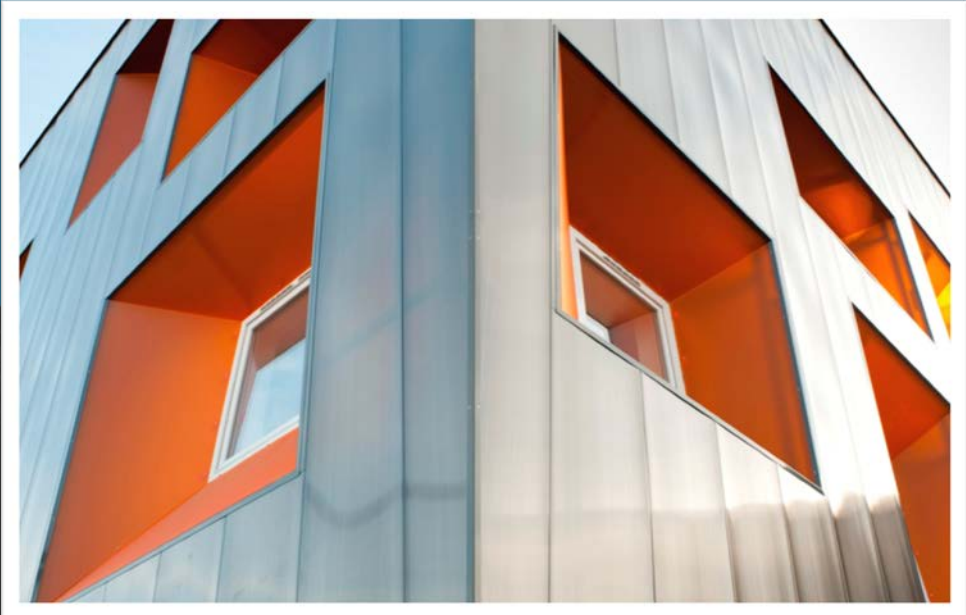
Architect: Fire Station, DMA architectures, Switzerland



Architect: FGP Architects - M. Paillard, France



Architect: Jove Les Tours, Geoffroy & Zonca, France



Architect: DGLA, France



Zip Hotel Architect: Shineu ,Seoul Korea



Sign Your Signature With Light



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