



Jemiclad

The PVC Free One

for the most demanding environments

Wall cladding that offers you all of the benefits of traditional PVC cladding with the added benefit of being PVC free.

Do you require wall protection that is made to last? A solution that is tough, durable with high impact strength? Do you require a surface that passes hygiene code and can easily be kept clean?

Manufactured from lightweight polycarbonate wall cladding is easy to handle during installations with excellent mechanical strength and ease of fabrication you can count on.

With a wide range of colours in both texture, matt and gloss— Jemiclad The PVC Free One is here to solve your design needs. The coloured surface finish eliminates the need for wall painting, minimizing damage marks from impact in those tougher environments.

Like no other, The PVC Free One is double sided, one side smooth for ease of cleaning in food prep or hygiene areas, and the other textured, great for wall protection in corridors or store rooms.

The PVC Free One is excellent thermoforming and hot air welding to allow the ultimate in hygienic lining.

Available in a range of 28 standard gloss and matt colours, with additional metallic colours, UV coating options and textured finish the world is your oyster.



Why use The PVC Free One?



Tough & Durable



Hygienic
and Easy to
Clean



High
Heat
Resistance



Easy to
Fabricate



Easy to Install



Extensive
Colour
Range



Excellent
Chemical
Resistance



Environmentally
Friendly

TYPICAL CLADDING APPLICATIONS

Healthcare Facilities: hospitals, clinics, laboratories, sterile rooms, operating theatres.

Public Facilities: schools, changing rooms, bathrooms, airports, sport centres

Industrial Facilities: industrial kitchens, store areas, warehousing, clean rooms, pharmaceutical

Hospitality: hotels, commercial kitchens, laundry, corridors, restaurant

Dimensions

Width	1250mm / (4ft)
Length	2500 - 3000 mm / (8 – 10ft)
Thickness	1.7mm
Texture	00/35



WALL CLADDING COLOUR RANGE

Available in 28 colours, gloss and matt, and metallic

White 110		similar to NCS S 0300-N
Offwhite 111		NCS S 0520-Y
Beige 120		NCS S 1005-Y30R
Dark Beige 121		NCS S 2005-Y20R
Brown 122		NCS S 7005-Y50R
Light Yellow 130		NCS S 0520-Y10R
Light Pink 140		NCS S 0907-Y90R
Light Green 150		NCS S 1010-G
Light Blue 160		NCS S 1015-R80B
Blue 161		NCS S 4020-B
Light Grey 170		NCS S 2500-N
Grey 171		NCS S 2502-B



Jemiguard HD

Jemiguard HD is a coating for Jemiclad's The PVC Free One sheet with glass like appearance suitable for flat applications. The high impact strength of The PVC Free One is combined with improved weather and chemical resistance. The product offers protection against abrasion compared to standard plastic sheets.

Jemiguard HD is resistant to many of the most common chemicals, and the hard coat also provides an excellent protection against graffiti and vandalism.

The PVC Free One coated in Jemiguard HD weighs about half the weight of standard glass, yet the product is virtually unbreakable. Jemiguard HD has an outstanding clarity, the hard coat improves the light transmission of The PVC Free One.

Jemiguard HD BENEFITS:

- Abrasion and Impact Resistant
- Chemical Resistance
- UV Stability
- High optical quality and outstanding clarity
- More than 10 times the impact strength of high impact PMMA

APPLICATION AREAS:

Anti-vandal glazing, security glazing, safety screens and acoustic screens, Industrial equipment (machine coverings, machine protections), Indoor and outdoor signs, vending machine faces and many different kinds of technical parts.

DELIVERY PROGRAM:

Standard size: 2000 x 3000 mm

Thickness range: 1.7mm

Special sizes and thicknesses on request

Technical Specifications

Property	Value	Unit	Standard
Physical properties			
Density	1,2	g/cm ³	ISO 1183
Refractive index (20 °C)	1,586		ISO 489
Moisture absorption 24 hours, 23 °C, 50% RH	0,15	%	ISO 62
Mechanical properties			
Tensile strength at yield (at break)	60 (70)	N/mm ²	ISO 527
Elongation at yield (at break)	6 (110)	%	ISO 527
Elastic modulus	>2300	N/mm ²	ISO 527
Flexural modulus	>2300	N/mm ²	ISO 178
Charpy unnotched impact strength -40 °C	NB	kJ/m ²	ISO 179/1eU
Charpy notched impact strength -30 °C	11	kJ/m ²	ISO 179/1eA
Izod notched impact strength +23 °C	65	kJ/m ²	ISO 180/1A
Izod notched impact strength -30 °C	10	kJ/m ²	ISO 180/1A
Thermal properties			
Linear coefficient of thermal expansion (20-70 °C)	65x10 ⁻⁶	K ⁻¹	ISO 11359-2
Thermal conductivity	0,20	W/m.K	ISO 8302
Coating properties			
Adhesion	GT-0		DIN 53151 / ISO 2409
Taber Abrasion, CS 10F, 500g, 100 / 500 cycles	2 / <9	% Haze	ASTM D1044
¹ Taberhaze: Taber abrader, 500g load, CS 10F wheels, 500 cycles			



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With best regards:

