

TECHNICAL DATA

VITROFLEX WALLGUARD - WG

VITROFLEX WALLGUARD® is a definitive and maintenance-free wall covering in a wide range of colours. Its quality ensures that walls are cared for and protected.

Due to its high resistance to impact, breakage and surface abrasion, VITROFLEX WALLGUARD® wall protection systems protects and decorates walls and partitions with a high aesthetic value and efficiency in all types of spaces, wherever walls suffer impacts and frequent deteriorations. Our system keeps them in good condition avoiding permanent maintenance and painting costs.

VITROFLEX WALLGUARD® is the best option given its good fire behaviour, certified Bs1d0 and halogen free, ensuring that in case of a fire, or a minor fire involving a bin, garbage can, curtains, etc., that could affect the clad walls, it will not generate the deadly toxic gases generated by products using a PVC polymer base, nor will there be a rapid spread of fire caused by polyolefins.

VITROFLEX WALLGUARD® is very thin, allowing a reduction of wall thickness with respect to other solutions.

ADVANTAGES

- Non-polluting and 100% recyclable material.
- Halogen free (no chlorine, bromine, etc.).
- High mechanical strength properties and good electrical and thermal insulation.
- Fire certification Bs1d0.
- Easy cutting, routing.
- Cold bending possibilities.
- Moisture resistant. (big advantage against HPL or wood)
- Impact and chafing resistant, without suffering the degradation that other materials such as wood, phenolic laminates (HPL), fibreglass, plasterboard or all painted surfaces suffer over time.
- Easy cleaning. Washable with neutral soap and water.
- Non-porous.
- Does not give off any odour like PVC, even at high temperatures.
- Highest impact resistance.
- Wide range of operating temperatures (-20°C to 120°C).
- Good resistance to abrasion.
- Availability in opaque colours, metallic colours and colourless.
- Colours are in mass, not surface.
- Possibility of Supermatt surface upon request.
- Any RAL, PANTONE code or colour sample can be manufactured upon request.

TYPES AND FORMATS

- Standard size 2050x1250mm.
- Thickness 1.7mm. From 1,5 to 4mm under request.
- Special widths between 1000 and 1450mm available upon request.
- Fire certificate Bs1d0.

APPLICATION AREAS

VITROFLEX WALLGUARD wall cladding sheets are applied in many areas:

- Corridors.
- Emergency stairs.
- Work areas, kitchens, laundries.
- Public or private offices.
- Elevators.
- Classrooms and corridors in schools.
- Hotels and restaurants.
- Public toilets.
- Garages and storage rooms.
- Workshops, laboratories.
- Cutting rooms.
- Stairs.
- Clinics, hospitals.
- Malls.
- Nursing homes.
- Food industry.
- Elderly people residences.

TECHNICAL SPECIFICATIONS - VITROFLEX WALLGUARD

Properties	Value	Units	Standard
Physical-mechanical properties			
Weight per square metre	2.04	kg/m ²	
Flexural strength	>90	%	ISO 178
Elasticity module	>2100	MPa	ISO 527
Flexural modulus	>2100	MPa	ISO 178
Izod notched impact strength	+23°C 60	KJ/m ²	ISO 180
Resin Rockwell hardness	M70	R-scale	ISO 2039-2
Tensile strength at break	55	N/mm ²	ISO 527
Thermal properties			
Linear thermal expansion coefficient (23-80°C) 11359-2	0,75	10 ⁻⁴ x K ⁻¹	ISO
Heat deflection temperature	132	° C	DIN 53516
Fire properties			
Fire certificate	Bs1d0		EN13501-1

The properties described here are typical values of the material. Polimer Tecnic is not responsible for the materials of a specific consignment to exactly match the given values, being able to carry out tests of that heading. The above information is based on our experience and is given in good faith. Due to some installation and processing factors that are beyond our knowledge and control, no guarantee is given regarding such information.