

TECHNICAL DATA

VITROFLEX WALLGUARD

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 and coatings allow for the protect and decoration of walls and partitions with a high aesthetic value and efficiency in all types of spaces, wherever walls suffer impacts and frequent deteriorations, or when keeping them in good condition incurs permanent maintenance and painting costs. VITROFLEX WALLGUARD® is very thin, allowing a reduction of wall thickness. VITROFLEX WALLGUARD® is the best option given its good fire behaviour, certified Bs1d0, ensuring that in case of a fire, or a minor fire involving a bin, garbage can, curtains, etc., that could affect the coated walls, it will not generate the deadly toxic gases generated by products using a PVC base, nor will there be a rapid spread of fire caused by polyethylene.

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 to machine.
- Can be cold bent.
- Resists moisture.
- Resists impacts and chafing well, remaining unchanged once installed without suffering the degradation that other materials such as wood, phenolic laminates (HPL), fibreglass, plasterboard or all painted surfaces suffer over time.
- Easily washable with soap and water.
- Non-porous.
- Does not give off any odour like PVC, even at high temperatures.
- High impact resistance.
- Wide range of operating temperatures (-20°C to 100°C).
- Good resistance to abrasion.
- Washable with water and neutral detergents.
- Availability in colourless, opaque colours and metallic colours.
- Colours are pigmented.
- Possibility of increasing the matt effect of the surface upon request.
- Any RAL or PANTONE colour can be manufactured upon request.

TYPES AND FORMATS

- Standard size 2050x1250mm.
- Thickness 1.7mm.
- Special widths between 1000 and 1450mm available upon request.
- Fire certificate Bs1d0.

APPLICATION AREAS

VITROFLEX WALLGUARD coatings 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.
- Cutting rooms.
- Stairs.
- Clinics, outpatient clinics.
- Malls.
- Nursing homes.
- Food industry.
- Hospitals.
- Emergency exits.

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 module	>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)	0,75	10 ⁻⁴ x K ⁻¹	ISO 11359-2
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.