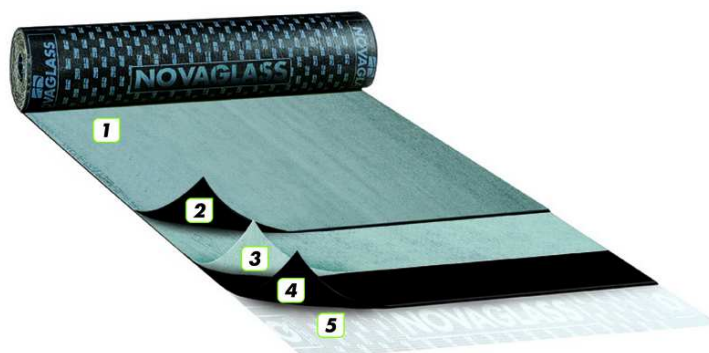


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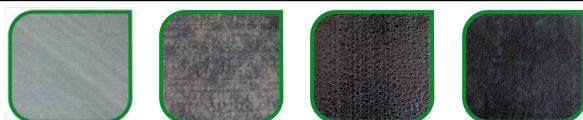
DESCRIPTION	NOVALL-I is a elastomeric modified bitumen waterproofing vapour barrier membrane (SBS), industrially manufactured by impregnation of two reinforcements with the waterproofing compound based on distilled bitumen modified with elastomeric polymers of the latest generation, which gives to the compound high technical characteristics. The two reinforcements are fiberglass and aluminium foil, convey absolute impermeability against water vapour and thermal stability. Shaping of sheets, straightness, dimensional and surface uniformity are accomplished by hot calendaring of the mass at hot melt fluid state. The upper surface is coated with anti-adhesive amorphous sand. The lower surface is coated with a thermo-fusibile polyolefin film.
FIELD OF APPLICATION	NOVALL-I is particularly suitable as water vapour barrier layer in waterproofing systems. General roofing, warm roof, under tiles, are valid examples of the design application of this product. It is not suitable for roof gardens. It can be applied onto every substrate (concrete, masonry, wood, insulation panel, membrane, etc.). The excellent mechanical characteristics and high level thermo-dynamic stability make it suitable for any climate conditions and all the situations where a barrier against water vapour is required.
METHOD OF INSTALLATION	The excellent thermoplastic properties of the waterproofing compound allow the application with torch-on system or hot air generator. In particular situations, it could be applied with appropriate sealants or mechanical fastenings. The application of the membrane must be carried in good weather conditions and after the substrate has been adequately cleaned and prepared.
PACKING AND STORAGE	The product is packed as standing rolls on wooden pallets wrapped with thermoshinking protective hoods. Rolls must be stored in the upright position, without stacking the pallets to avoid deformations which can compromise the correct application of the membrane. The product must be stored indoor, protected from heat and frost.
SPECIAL INDICATIONS	SAFETY INFORMATION The product does not contain dangerous substances and can be considered as household rubbish or industrial waste (identification code EWC170302).
INTENDED USE OR USES	Flexible sheets for waterproofing. Reinforced bitumen sheets for roof waterproofing Flexible sheets for waterproofing. Bitumen damp proof sheets including bitumen basement tanking sheets Flexible sheets for waterproofing. Bitumen water vapour control layers

1. Anti-adhesive surface
2. Waterproofing mass
3. Reinforcement
4. Waterproofing mass
5. Torch-off film



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TECHNICAL DATA

	Norm	Value	Unit	Tolerance
Thickness	EN1849-1:1999	2-3-4	(mm)	±0,2
Weight	EN1849-1:1999	3-4	(kg/m ²)	±10%
Roll length	EN1848-1:1999	10	(m)	-1%
Roll width	EN1848-1:1999	1	(m)	-1%
Straightness	EN1848-1:1999	PASSED	-	20 mm / 10 m
Flexibility at low temperature (pliability)	EN1109:2013	-15	(°C)	≤
Heat flow resistance	EN1110:2010	90	(°C)	≥
Watertightness	EN1928-B:2000	100	(kPa)	≥
Watertightness	EN1928-B:2000	PASSED	(kPa)	≥ 60kPa/24h
Water vapour transmission properties	EN1931:2000	1.700.000	(μ)	-
M.d. C.d.				
Tensile properties: maximum tensile strength	EN12311-1:1999	700 / 400	(N/50 mm)	-20%
Tensile properties: elongation at break	EN12311-1:1999	2 / 2	(%)	≥
Resistance to tearing (nail shank)	EN12310-1:1999	100 / 100	(N)	-30%
Shear resistance of joints	EN12317-1:1999	700 / 400	(N/50 mm)	-20%
Resistance to static puncture	EN12730-A:2015	NPD		
Resistance to impact	EN12691-A:2006	NPD		
External fire performance (note 1)	EN1187:2012/EN13501-5:2005+A1:2009	Froof	Class	-
Reaction to fire	EN11925-2:2010/EN13501-1:2007+A1:2009	E	Class	-
Root resistance	EN13948:2007	NPD		
Visible defects	EN1850-1:2001	PASSED	-	-
Durability: Flexibility at low temperature after artificial ageing	EN1296:2000/EN1109:2013	-15	(°C)	+15
Durability: Flow resistance at elevated temperature after artificial ageing	EN1296:2000/EN1110:2010	NPD		
Durability: Watertightness after artificial ageing	EN1296:2000/EN1928-B:2000	PASSED	(kPa)	≥ 60
Durability: Watertightness against chemicals	EN1296:2000/EN1847:2009	NPD		
Durability: Resistance to water vapour after artificial ageing	EN1296:2000/EN1931:2000	PASSED	(μ)	± 50 % v.i.
Durability: Chemical resistance	EN1847:2009/EN1931:2000	PASSED	(μ)	± 50 % v.i.

NORMS AND CERTIFICATIONS EN13707; EN13969 - 1381 - 1381-CPR-415; EN13970 - 1211 - 51-14-0015



Substates or
intermediate
layers

Water vapour
barrier

Damp proof
courses