

# NOVALL-I A

WPBIT0351.c

<b>DESCRIPTION</b>	<p>NOVALL-I A is a elastomeric modified bitumen waterproofing ANTI-RADON 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.</p> <p>The reinforcement consists of the coupling of fiberglass and an aluminium foil, convey absolute impermeability against water vapour and high thermal stability.</p> <p>The membrane satisfies the norms of resistance to the diffusion of Radon gas.</p> <p>Shaping of sheets, straightness, dimensional and surface uniformity are accomplished by hot calendaring of the mass at hot melt fluid state.</p> <p>The upper surface is coated with anti-adhesive amorphous sand. The lower surface is coated with a thermo-fusibile polyolefin film.</p>
<b>FIELD OF APPLICATION</b>	<p>NOVALL-I A is particularly suitable as water vapour barrier layer or as anti-RADON in waterproofing systems.</p> <p>Underground structures, foundations, on or under floors or ground slabs, wall constructions, 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, membrane, etc.).</p> <p>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.</p>
<b>METHOD OF INSTALLATION</b>	<p>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.</p> <p>The application of the membrane must be carried in good weather conditions and after the substrate has been adequately cleaned and prepared.</p>
<b>PACKING AND STORAGE</b>	<p>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.</p>
<b>INTENDED USE OR USES</b>	<p>Flexible sheets for waterproofing. Reinforced bitumen sheets for roof waterproofing</p> <p>Flexible sheets for waterproofing. Bitumen damp proof sheets including bitumen basement tanking sheets</p> <p>Flexible sheets for waterproofing. Bitumen water vapour control layers</p>

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
		3	4		
Thickness	EN1849-1	3	4	(mm)	±0,2
Roll length	EN1848-1	10	10	(m)	-1%
Roll width	EN1848-1	1	1	(m)	-1%
Straightness	EN1848-1	PASSED		-	20 mm / 10 m
Flexibility at low temperature (pliability)	EN1109	-20		(°C)	≤
Heat flow resistance	EN1110	90		(°C)	≥
Watertightness	EN1928-A	60		(kPa)	≥
Watertightness	EN1928-B	PASSED		(kPa)	2kPa/24h
Water vapour transmission properties	EN1931	4.695.000****		(μ)	-
M.d. C.d.					
Tensile properties: maximum tensile strength	EN12311-1	700 / 400		(N/50 mm)	-20%
Tensile properties: elongation at break	EN12311-1	2 / 2		(%)	≥
Resistance to tearing (nail shank)	EN12310-1	150 / 150		(N)	-30%
Shear resistance of joints	EN12317-1	700 / 400		(N/50 mm)	-20%
Resistance to static puncture	EN12730-A	NPD			
Resistance to impact	EN12691-A	NPD			
External fire performance (note 1)	EN1187/EN13501-5+A1	Froof		Class	-
Reaction to fire	EN11925-2/EN13501-1+A1	E		Class	-
Root resistance	EN13948	NPD			
Visible defects	EN1850-1	PASSED		-	-
Durability: Flexibility at low temperature after artificial ageing	EN1296/EN1109	-20		(°C)	+15
Durability: Flow resistance at elevated temperature after artificial ageing	EN1296/EN1110	NPD			
Durability: Watertightness after artificial ageing	EN1296/EN1928-B	PASSED		(kPa)	≥ 60
Durability: Watertightness against chemicals	EN1296/EN1847	NPD			
Durability: Resistance to water vapour after artificial ageing	EN1296/EN1931	PASSED		(μ)	± 50 % v.i.
Durability: Chemical resistance	EN1847/EN1931	PASSED		(μ)	± 50 % v.i.
Test of Radon permeability	Rapporto di prova SP	<1,1 x 10 (e-12)*		(m2/s)	-
Radon permeability (comparison with noble gases)	Rapporto di prova CSI	<0,1***		(cm3/m2x24 hxatm)	
Determination of Radon transmittance	Rapporto di prova RI.SE	<3 x 10 (e-9)**		(m/s)	-
Test of Radon permeability	Rapporto di prova RI.SE	<1,2 x 10 (e-13)**		(m2/s)	-
Determination of Radon transmittance	Rapporto di prova SP	<14 x 10 (e-10)*		(m/s)	-
Substances dangereuses (notes 2 and 3)	-	CONFORMS		-	

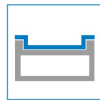
### WARNINGS

- \* valid for 3 mm thickness
- \*\* valid for 4 mm thickness
- \*\*\* valid for 3 and 4 mm thickness

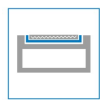
\*\*\*\*Test result of 4 mm thickness membrane - (Test Report TUM nr. 51-18-0215)  
 Test result of 3 mm thickness membrane: 1.990.000 μ - (Test Report TUM nr. 51-18-0214)

### NORMS

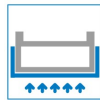
EN13707; EN13969; EN13970



Base sheet  
in multi-  
layers  
systems



Water  
vapour  
barrier



Radon Gas  
barrier



Damp proof  
courses