





## **EDILFLEX**

Rev. 1 del 01/07/2013

#### **DESCRIPTION**

EDILFLEX is a plastomeric modified bitumen waterproofing membrane (APP), industrially manufactured by impregnation of the reinforcement with the waterproofing compound based on distilled bitumen modified with polyolefin polymers, which gives to the compound superior technical characteristics

The composite reinforcement, made of nonwoven polyester in combination with fiberglass, conveys good mechanical characteristics, excellent dimensional stability and elastic performance. Shaping of sheets, straightness, dimensional and surface uniformity are accomplished by hot calendering 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

EDILFLEX is a excellent performance membrane. It is particularly suitable as top layer and as under layer in multi-layer waterproofing systems, with compatible membranes.

General roofing, vehicles parking roofs, 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, steel, wood, insulation panel, membrane, etc.) and under heavy protection.

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 is required.

### METHOD OF INSTALLATION

The excellent thermoplastic properties of the waterproofing compound allow the application with torchon 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 thermoshrinking 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

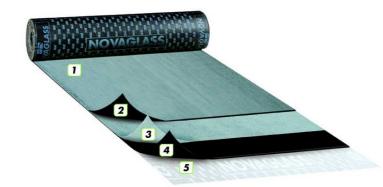
The product does not contain dangerous substances and can be considered as household rubbish or industrial waste (identification code EWC170302).

### 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

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





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#### **TECHNICAL DATA**

Roll length		Norm	Value	Unit	Tolerance
Roll width   EN1848-1:1999   1	Thickness	EN1849-1:1999	3-4	(mm)	±0,2
Straightness         EN1848-1:1999         PASSED         - 20 mm / 10 m           Flexibility at low temperature (pliability)         EN1109:2013         -10 (°C) ≤           Heat flow resistance         EN1110:2010         120 (°C) ≥           Water tightness         EN1928-B:2000         100 (kPa) ≥           Water vapour transmission properties         EN1931:2000         20.000 (μ) -           Water vapour transmission properties         EN1931:2000         20.000 (μ) -           Tensile properties: maximum tensile strength         EN12311-1:1999         500 / 350 (N/50 mm) -20%           Tensile properties: elongation at break         EN12311-1:1999         40 / 40 (%) -15           Resistance to tearing (nail shank)         EN12310-1:1999         40 / 40 (%) -15           Resistance to tearing (nail shank)         EN12317-1:1999         40 / 3 / 40,3 (%) ≤           Shear resistance of joints         EN12317-1:1999         500 / 350 (N/50 mm) -20%           Resistance to static puncture         EN12370-A:2015         NPD           Resistance to impact         EN12730-A:2015         NPD           External fire performance (note 1)         EN1187:2012/EN13501-1:2007+A1:2009         F Class -           Reaction to fire         EN1295-2:2010/EN13501-1:2007+A1:2009         F Class -           Root resistance         EN1	Roll length	EN1848-1:1999	10	(m)	-1%
Flexibility at low temperature (pliability)  EN1109:2013  -10  (°C) ≥  Heat flow resistance  EN1110:2010  120  (°C) ≥  Watertightness  EN1928-B:2000  100  (kPa) ≥  Water vapour transmission properties  EN1931:2000  20.000  (μ) -  H.d. C.d.  Tensile properties: maximum tensile strength  EN12311-1:1999  500 / 350  (N/50 mm) -20%  Tensile properties: elongation at break  EN12311-1:1999  40 / 40  (%) -15  Resistance to tearing (nail shank)  EN12310-1:1999  150 / 150  (N) -30%  Dimensional stability  EN1107-1:1999  \$40,3 / ±0,3  (%) ≤  Shear resistance of joints  EN12317-1:1999  \$500 / 350  (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  Foof  Class -  Reaction to fire  EN11925-2:2010/EN13501-1:2007+A1:2009  Foof  Visible defects  EN13948:2007  NPD  Visible defects  EN1850-1:2001  PASSED  Durability: Flexibility at low temperature after artificial ageing  EN1296:2000/EN1109:2013  NPD  Durability: Flow resistance at elevated temperature after  EN1296:2000/EN1109:2013  PASSED - PASSED  Durability: Visual defects after artifficial ageing  EN1296:2000/EN1928-B:2000  PASSED - PASSED	Roll width	EN1848-1:1999	1	(m)	-1%
Heat flow resistance	Straightness	EN1848-1:1999	PASSED	-	20 mm / 10 m
Watertightness	Flexibility at low temperature (pliablility)	EN1109:2013	-10	(°C)	≤
Water vapour transmission properties         EN1931:2000         20.000         (μ)         -           Tensile properties: maximum tensile strength         EN12311-1:1999         500 / 350         (N/50 mm) -20%           Tensile properties: elongation at break         EN12311-1:1999         40 / 40         (%)         -15           Resistance to tearing (nail shank)         EN12310-1:1999         150 / 150         (N)         -30%           Dimensional stability         EN1107-1:1999         ±0,3 / ±0,3         (%)         ≤           Shear resistance of joints         EN12317-1:1999         500 / 350         (N/50 mm) -20%           Resistance to static puncture         EN12317-1:1999         500 / 350         (N/50 mm) -20%           Resistance to impact         EN1230-A:2015         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         F         Class -           Root resistance         EN13948:2007         NPD           Visible defects         EN1450-1:2001         PASSED -         -           Durability: Flow resistance at elevated temperature after artificial ageing         EN1296:2000/EN1109:2013         NPD           Durability: Watertightness af	Heat flow resistance	EN1110:2010	120	(°C)	2
M.d. C.d.	Watertightness	EN1928-B:2000	100	(kPa)	2
Tensile properties: maximum tensile strength         EN12311-1:1999         500 / 350         (N/50 mm) -20%           Tensile properties: elongation at break         EN12311-1:1999         40 / 40         (%) -15           Resistance to tearing (nail shank)         EN12310-1:1999         150 / 150         (N) -30%           Dimensional stability         EN1107-1:1999         ±0,3 / ±0,3         (%) ≤           Shear resistance of joints         EN12317-1:1999         500 / 350         (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         F         Class -           Root resistance         EN13948:2007         NPD           Visible defects         EN1850-1:2001         PASSED -         -           Durability: Flexibility at low temperature after artificial ageing         EN1296:2000/EN1109:2013         NPD           Durability: Flow resistance at elevated temperature after artificial ageing         EN1296:2000/EN11928-B:2000         PASSED         -         -           Durability: Watertightness after artificial ageing         EN1296:	Water vapour transmission properties	EN1931:2000	20.000	(µ)	-
Tensile properties: elongation at break EN12311-1:1999 40 / 40 (%) -15  Resistance to tearing (nail shank) EN12310-1:1999 150 / 150 (N) -30%  Dimensional stability EN1107-1:1999 ±0,3 / ±0,3 / ±0,3 (%) ≤  Shear resistance of joints EN12317-1:1999 500 / 350 (N/50 mm) -20%  Resistance to static puncture EN12370-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 F Class -  Root resistance EN13948:2007 NPD  Visible defects EN13948:2007 NPD  Urability: Flexibility at low temperature after artificial ageing  Durability: Flexibility at low temperature after artificial ageing  EN1296:2000/EN1109:2013 NPD  EN1296:2000/EN1110:2010 110 (°C) -10  artificial ageing  Durability: Watertightness after artificial ageing EN1296:2000/EN1928-B:2000 PASSED - PASSED  PASSED - PASSED			M.d. C.d.		
Resistance to tearing (nail shank)         EN12310-1:1999         150 / 150         (N)         -30%           Dimensional stability         EN1107-1:1999         ±0,3 / ±0,3         (%)         ≤           Shear resistance of joints         EN12317-1:1999         500 / 350         (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         F         Class         -           Root resistance         EN13948:2007         NPD           Visible defects         EN1850-1:2001         PASSED         -         -           Durability: Flexibility at low temperature after artificial ageing         EN1296:2000/EN1109:2013         NPD         NPD           Durability: Flow resistance at elevated temperature after artificial ageing         EN1296:2000/EN1110:2010         110         (°C)         -10           Durability: Watertightness after artificial ageing         EN1296:2000/EN1928-B:2000         PASSED         -         PASSED	Tensile properties: maximum tensile strength	EN12311-1:1999	500 / 350	(N/50 mm	) -20%
Dimensional stability         EN1107-1:1999         ±0,3 / ±0,3         (%)         ≤           Shear resistance of joints         EN12317-1:1999         500 / 350         (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         F         Class -           Root resistance         EN13948:2007         NPD           Visible defects         EN1850-1:2001         PASSED           Durability: Flexibility at low temperature after artificial ageing         EN1296:2000/EN1109:2013         NPD           Durability: Flow resistance at elevated temperature after artificial ageing         EN1296:2000/EN1102010         110         (°C) -10           Durability: Watertightness after artificial ageing         EN1296:2000/EN1928-B:2000         PASSED         -         PASSED           Durability: Visual defects after artificial ageing         EN1297:2004/EN1850-1:1999         PASSED         -         PASSED	Tensile properties: elongation at break	EN12311-1:1999	40 / 40	(%)	-15
Shear resistance of joints         EN12317-1:1999         500 / 350         (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         F         Class -           Root resistance         EN13948:2007         NPD           Visible defects         EN1850-1:2001         PASSED           Durability: Flexibility at low temperature after artificial ageing         EN1296:2000/EN1109:2013         NPD           Durability: Flow resistance at elevated temperature after artificial ageing         EN1296:2000/EN1102010         110         (°C) -10           Durability: Watertightness after artificial ageing         EN1296:2000/EN1928-B:2000         PASSED         -         PASSED           Durability: Visual defects after artificial ageing         EN1297:2004/EN1850-1:1999         PASSED         -         PASSED	Resistance to tearing (nail shank)	EN12310-1:1999	150 / 150	(N)	-30%
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         F         Class         -           Root resistance         EN13948:2007         NPD           Visible defects         EN1850-1:2001         PASSED         -         -           Durability: Flexibility at low temperature after artificial ageing         EN1296:2000/EN1109:2013         NPD         NPD           Durability: Flow resistance at elevated temperature after artificial ageing         EN1296:2000/EN110:2010         110         (°C)         -10           Durability: Watertightness after artificial ageing         EN1296:2000/EN1928-B:2000         PASSED         -         PASSED           Durability: Visual defects after artificial ageing         EN1297:2004/EN1850-1:1999         PASSED         -         PASSED	Dimensional stability	EN1107-1:1999	±0,3 / ±0,3	(%)	≤
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         F         Class         -           Root resistance         EN13948:2007         NPD           Visible defects         EN1850-1:2001         PASSED         -         -           Durability: Flexibility at low temperature after artificial ageing         EN1296:2000/EN1109:2013         NPD           Durability: Flow resistance at elevated temperature after artificial ageing         EN1296:2000/EN110:2010         110         (°C)         -10           Durability: Watertightness after artificial ageing         EN1296:2000/EN1928-B:2000         PASSED         -         PASSED           Durability: Visual defects after artificial ageing         EN1297:2004/EN1850-1:1999         PASSED         -         PASSED	Shear resistance of joints	EN12317-1:1999	500 / 350	(N/50 mm	)-20%
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         F         Class         -           Root resistance         EN13948:2007         NPD         -         -           Visible defects         EN1850-1:2001         PASSED         -         -           Durability: Flexibility at low temperature after artificial ageing         EN1296:2000/EN1109:2013         NPD         NPD           Durability: Flow resistance at elevated temperature after artificial ageing         EN1296:2000/EN1110:2010         110         (°C)         -10           Durability: Watertightness after artificial ageing         EN1296:2000/EN1928-B:2000         PASSED         -         PASSED           Durability: Visual defects after artificial ageing         EN1297:2004/EN1850-1:1999         PASSED         -         PASSED	Resistance to static puncture	EN12730-A:2015	NPD		
Reaction to fire         EN11925-2:2010/EN13501-1:2007+A1:2009         F         Class         -           Root resistance         EN13948:2007         NPD         -         -           Visible defects         EN1850-1:2001         PASSED         -         -           Durability: Flexibility at low temperature after artificial ageing         EN1296:2000/EN1109:2013         NPD         NPD           Durability: Flow resistance at elevated temperature after artificial ageing         EN1296:2000/EN1110:2010         110         (°C)         -10           Durability: Watertightness after artificial ageing         EN1296:2000/EN1928-B:2000         PASSED         (kPa)         ≥ 60           Durability: Visual defects after artificial ageing         EN1297:2004/EN1850-1:1999         PASSED         -         PASSED	Resistance to impact	EN12691-A:2006	NPD		
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ageing  Durability: Flow resistance at elevated temperature after artificial ageing  EN1296:2000/EN1110:2010  110  (°C)  -10  PASSED  Urrability: Watertightness after artificial ageing  EN1296:2000/EN1928-B:2000  PASSED  PASSED  - PASSED	Visible defects	EN1850-1:2001	PASSED	-	-
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Durability: Visual defects after artificial ageing EN1297:2004/EN1850-1:1999 PASSED - PASSED	Durability: Flow resistance at elevated temperature after artificial ageing	EN1296:2000/EN1110:2010	110	(°C)	-10
, , , , , , , , , , , , , , , , , , , ,	Durability: Watertightness after artificial ageing	EN1296:2000/EN1928-B:2000	PASSED	(kPa)	≥ 60
Durability Watertightness against chemicals EN4206:2000/EN4847:2000 NDD	Durability: Visual defects after artificial ageing	EN1297:2004/EN1850-1:1999	PASSED		PASSED
Durability: Watertigritiess against chefficals EN1290.2000/EN1647.2009 NPD	Durability: Watertightness against chemicals	EN1296:2000/EN1847:2009	NPD		

### NORMS AND CERTIFICATIONS

EN13707; EN13969 - 1381 - 1381-CPR-415









Top layer

Substates or intermediate layers

Damp proof courses

Foundations



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