

Approved on 01.06.2016

PLASTFOIL[®] CLASSIC

Polymeric PVC membrane for waterproofing of roofs

PRODUCT DESCR	IPTION				
	PLASTFOIL [®] CLASSIC — is a p	oolymeric waterproofing P	VC-based membrane, rei	nforced with plastic mesh.	
	Due to reinforcement, it has high rupture strength.				
APPLICATION	-				
	Polymeric membrane is intended for water-proofing flat mechanically fastened roofs (is possible for waterproofing of ballasted roofs). It is also acceptable to apply it on pitched roofs with an inclination angle more than 7° (12%). In pitched roofs system width of PVC membrane should not exceed 1,05 m, or applying a system of closed lines. It is more aesthetically pleasing to apply a rebate simulation of omegaprofile PVC.				
CHARACTERISTIC	CS/ADVANTAGES				
Features Approval/standards	 Outstanding resistance to weathering, including permanent UV irradiation High resistance to aging High resistance to mechanical influences High resistance to hailstones High resistance under tension Excellent flexibility in cold temperatures High vapor permeability Outstanding weldability Recyclable, does not pollute the environment Fire performances are adapted to the European and Russian Requirements to fire safety Polymer membranes for roof waterproofing according to EN 13956:2012 Tech. specifications 23.99.12.110-012- 54349294-2016 Technical regulations on fire safety requirements No.123-Federal Law Production control and evaluation are performed by the certified laboratories. 				
Standard sizes of rolls	Thickness, mm	Width, m	Length, m	Weight, kg/m ²	
	1,2 (-5% / +5 %)	2,1 (-0,5% / +1,0%)	25,0 (-0% / +1,0 %)	1,5 (-5% / +10%)	
	1,5 (-5% / +5 %)	2,1 (-0,5% / +1,0%)	20,0 (-0% / +1,0 %)	1,9 (-5% / +10%)	
	1,8 (-5% / +5 %)	2,1 (-0,5% / +1,0%)	20,0 (-0% / +1,0 %)	2,2 (-5% / +10%)	
	It is possible to produce material up to 2 mm in thickness.				

TECHNICAL DATA					
Product declaration	Tech. specificatio	ns 23.99.12.110-01	2- 54349294-2016 and EN 13956		
Visible defects	none		EN 1850-2		
Straightness, not more than, mm on 10m	30		EN 1848-2		
Flatness, not more than, mm	10		EN 1848-2		
Tensile strength, method A, H/50 mm, not			EN 12311-2		
less than					
- longitudinal	1100				
- transversal	900				
Elongation at maximum load conditions, %,					
not less than			EN 12311-2		
- longitudinal	17				
- transversal	19				
Tear strength (waterproofing polymer	200		EN 12310-2		
membrane), H, not less than					
Full collapsibility at low temperatures , °C,	-35		EN 495-5		
not more than					
Weld strength at tearing, N/50mm, not less	350		EN 12316-2		
than					
Weld strength at break,	700		EN 12317-2		
N/50mm, not less than	· · ·		EN 4020 (D)		
Water resistance (2 hours at 0,2 Mpa)	Impervious to water		EN 1928 (B)		
Resistance to hail, not less than m/s	25 1,2 mm in thickness 1,5 mm in thickness		EN 13583		
Resistance to dynamic burst (impact	1,2 1111 11 1110011033	1,5 mm m thickness			
resistance) - on a solid ground (in brackets	400 (700*)	700 (1000*)	EN 12691		
on soft ground), mm, not less than					
Resistance to static pressing, kg, not less	20		EN 12720		
than	20		EN 12730		
	B _{ROOF} (t1)		EN 13501-5		
Resistance to fire	BROOF(t2)				
	Broof(t3)				
Fire reaction	Class E		EN 13501-1		
Aging under the influence of artificial					
climatic factors (UV exposure, not less than	responds		EN 1297		
8000 hours)					
Linear changes when heated 6h at 80°C, %,					
not more than	0,5		EN 1107-2		
Water vapour transmission properties	μ = 20 000		EN 1931		

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RELATED MATERIALS	
	To ensure a high quality and durability of roof waterproofing it is recommended to apply the following constituent parts: Unreinforced membrane for making amplifier elements - PLASTFOIL® ART Formable elements and joints Rainwater funnels Omega-profile of PVC Laminated tin Mechanical fastener Compression and edging aluminium planks Membrane cleaner
APPLICATION DETAILS	
Substrate quality	The substrate must be uniform, smooth and free of any sharp protrusions or burrs.
Compatibility	Metal surface should be degreased with cleaner before the adhesive is applied. Not compatible with materials containing bitumen, tallow, tar, oils, solvents. In order to prevent a direct contact to polymers of other groups, such as: foamed polystyrene polyurethane, polyisocyanurate, phenol-containing foams it is recommended to apply a separation geotextile or glass-fiber mat layer.
Application method / tools	Installation procedure According to the valid installation instructions for mechanically fastened roof systems using PLASTFOIL PVC-membrane.
	Loosely laid and mechanically fastened. The roof waterproofing sheet is installed by loose laying and mechanical fastening in seam overlaps or independent from overlaps. An additional mechanical fastening of the membrane around the roof perimeter is obligatory. Technical department of the "Penoplex" company perform calculation on number of fasteners. Primary calculation can be made using a special program on the company website www.plastfoil.com.
	Welding method: Overlap seams are welded by electric hot welding equipment, such as manual hot air welding machines and pressure rollers or automatic hot air welding machines with controlled hot air temperature capability of minimum +600°C. Recommended type of equipment:
	Leister Triac, Dohle RION – for manual welding or some other similar types. Dohle LarOn, Leister Varimat (220W или 380W) – for automatic welding. Welding parameters including temperature, machine speed, air flow, pressure and machine settings must be evaluated, adapted and checked on site according to type of equipment and the climatic situation prior to welding. The effective width of welded overlaps should be equal to 20 mm - for manual welding, and 40 mm - for automatic welding.
Notes on application / Limitations	Installation works of the PVC-membrane must be carried out in strict adherence to the guidelines on application a polymeric PLASTFOIL [®] membrane on the roofs. Polymeric membrane may be applied in any climatic zones; herewith installation of the PVC-membrane should be performed at an ambient air temperature of -20°C to +50°C. Application of chemical constituent parts such as: contact adhesive/membrane cleaner is possible at an ambient air temperature not lower than +5°C. Please refer to the technical information on this product.

PROTECTIVE MEASURES				
	Fresh air ventilation must be ensured when working (welding) in closed rooms. Local safety regulations must be observed.			
TRANSPORTATION CLASS				
	The product is not classified as hazardous good for transport.			
PACKAGING				
	Packing unit: 17 rolls			
	Roll weight: 1,2 mm in thickness - 82,3 kg 1,5 mm in thickness - 80,1 kg 1,8 mm in thickness - 70,4 kg			
STORAGE				
	Rolls must be stored in horizontal position on pallets in original package protected from direct sunlight, rain, snow. Product does not expire during correct storage.			
DISPOSAL				
	The material is recyclable. Disposal must be performed according to the local regulations. Please contact your local representative office for more information.			