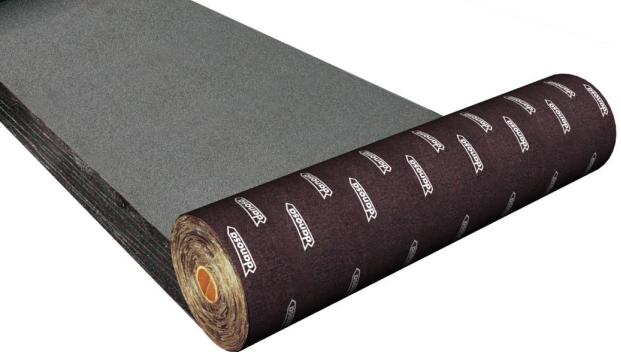


ELASTOMERIC MEMBRANES WITH POLYESTER REINFORCEMENT AND MINERAL SLATE

DATASHEET

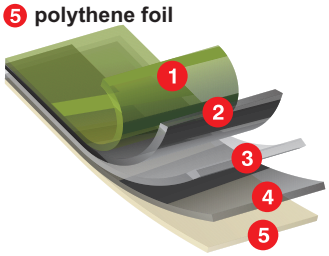
ESTERDAN GPE ELAST

SURFACE HYDRO INSULATING MEMBRANES

PRODUCT DESCRIPTION

Elastomeric hydro insulating membrane, produced out of distilled bitumen, modified with SBS (stirol-butadien-stirol) polymer, reinforced with non-woven polyester. Its bottom side is covered with easy to be burnt, thin polythene foil, that is melting completely and disappears in the torch's gas flame; its face - protected by a homogeneous mineral slate layer; there is a loose end for welding by overlapping the neighbouring membrane. The mineral slate not only ensures aesthetic appearence of the assembled roof, but is also an additional means of protection against ultra violet rays, ageing and mechanical damage of the membrane structure.

1. **mineral slate**
2. **modified SBS bitumen**
3. **non-woven polyester**
4. **modified SBS bitumen**
5. **polythene foil**



APPLICATION

Elastomeric membrane, suitable for:

- Upper layer in hydro insulating covering systems for flat roofs;
- Upper or singular layer for bases and underground walls of buildings.

SPECIFIC PROPERTIES OF MODIFIED BITUMINOUS MEMBRANES

- Membranes are welded with gas flame burner, at low fuel consumption;
- Perfect adaptation to all kinds of building constructions (concrete, metal, panel, etc.);
- Applicable in residential, public and industrial buildings;
- Harmless to man, no requirements for special means of protection.

PACKING

Palettes, wrapped in polythene foil, with the name of the manufacturer and the basic product data printed on the label.

DIMENSIONS, PRODUCT RANGE AND PACKING

Weight (kg/m2)	Lenght (mm)	Width (mm)	m2 / roll	Number of rolls /palette	m2 / palette
4.00	10	1	10	25	250
5.00	8	1	8	25	200

TECHNICAL PARAMETERS

Typical Features		Symbol	Value	Unit	Standard
Bitumen		*SBS*	Elastomeric	-	-
Reinforcement		*ESTER*	Non-woven polyester 160	gr/m²	-
Upper face		*PE*	Melting foil	-	-
Bottom face		*G*	Colored mineral slate	Grey, red, green, white	-
Softening point		t_t	> 110	°C	EN 1427
Flexibility at low temperature		$t_{(-)}$	– 20	°C	EN 1109
Thermal dimentional stability		$t_{(+)}$	> 100	°C	EN 1110
Tensile properties	lengthwise	σ_l	> 700	N / 5cm	EN 12311 - 1
	crosswise	σ_t	> 450	N / 5cm	
Break elongation	lengthwise	-	40	%	EN 12311 - 1
	crosswise	-	40	%	
Resistance to tearing	lengthwise	-	> 225	N	EN 12310 - 1
	crosswise	-	> 275	N	
Resistance to static loading		*L*	15	kg	EN 12730
Resistance to impact /polystirol of thickness: 20kg/m2		*I*	10	mm	EN 12691
Number of water vapor transmission properties		*μ*	> 20 000	-	EN 1391
Reaction to fire		*E*	Self-extinguishing	-	EN 13501 - 1
Product Certificate		Cer. No. 032/000572/05.07.2001		AENOR, MADRID (ES)	EN 104 242
Bulgarian Technical Approval		Protocol № 733-05/ 19.04.2005		CRIM, Sofia	EN 13707
Quality Management System		Cer. No. ES-0082 / 01.08.1999		IQNet, AENOR (ES)	ISO 9001:2000

Any information contained in this datasheet describes the product properties applicable as at the time of issue. With respect to continuous development of these materials, changes to their properties may take place from time to time.

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