

PENGUEN HOT Serial Waterproofing Membranes are plastomeric type that are the ideal preference for mild climate zone. In producing this type of membranes, APP (Atactic Polypropylene) with thermoplastic resin is used for to enhance of the bitum. Also increasing, physical strength of the membranes being used glassfiber tissue and nonwoven polyester mat as a bearing and reinforcement system.

Product Name.			SP 3000	SP 4000
Properties	Unit	TEST METHOD		
Reinforcement (Carrier)			Polyester	Polyester
Thickness	mm	EN 1849-1	3	4
Weight	kg/m ²	-----	3,3	4,4
Roll Width	m	EN 1848-1	1	1
Roll Length		EN 1848-1	10	10
Visible Defects	-----	EN 1850-1	None	None
Heat Endurance (at least)	°C	EN 1110	110	110
Cold Flexibility	°C	EN 1109	0	0
Breaking at cold frass			-5	-5
Water impermeability	-	EN 1928	√	√
Tensile Strength Longitudinal (at least)	N/5cm	EN 12311-1	600	600
Tensile Strength Transverse (at least)	N/5cm	EN 12311-1	400	400
Longitudinal Elongation	%	EN 12311-1	30	30
Transverse Elongation	%	EN 12311-1	30	30
Impact resistance	mm	EN 12691	1000	1000
Flexibility test at low temperature ≥0°C		EN 1109	no cracking	no crackcing
Sliding resistance of joints	%	EN 12316-1	≥ 48 N/5cm	≥ 48 N/5cm
Sliding elongation of joints	%	EN 12316-1	≥ %171	≥ %171
Testing resistance to static loading(metod A) ≥ 5 kg		EN 12730	no puncture	no puncture
Upper surface			P E	P E
Lower surface			P E	P E

Properties

It is an economical membrane which have full impermeability of water.

They can be used different surfaces like wood, concrete and metals.

They can be applied with blow torch .

It is suitable for using in dilatation, concrete structures, parapet turns and chimneys. They are durable same as building life is if they are applied correct way.

Application Areas

Bituminous membranes can be applied in all the areas where water can affect the structure like the walls which have contact with ground, foundations and layers with the ground.

They can also be used in external walls which is below of the water level , balconies, terraces, bathrooms and toilets.

Additionally they can be used in the structures for water reservoirs, artificial ponds or resting walls.

Storage and Protection

The rolls of bituminous membranes should be stored in vertical manner. Additionally during the transportation they should be placed vertically. Bituminous membranes should not placed in overlapping manner preventing the heavy load on the rolls.

Membranes should be protected from freezing and sunlight (ultraviolet light).

They should be kept away from heating sources. They must be protected from sudden temperature changes.

