



HOYLAKE

HOYLAKE TECHNOLOGY PTE LTD

#08-11 THE PRESTIGE CENTRE SINGAPORE 658071

T (65) 6887 9256

## EUROPLAST PV GARDEN

### Description:

APP-modified bitumen membrane EUROPLAST PV GARDEN is designed for waterproofing of green roofs and underground engineering structures. A special chemical additive, as a part of the polymer-bitumen binder, prevents roots penetration and ensures reliable waterproofing, but at the same time does not have a negative effect on plants or environment.

EUROPLAST PV GARDEN can be used both for construction of green roofs and for foundation waterproofing with additional protection from roots of plants located nearby.

On the bottom side, the material is covered by a polymer film with special graphic elements, melting of which indicates the proper material heating. On the top side, the material could be covered by a polymer film, fine-grained sand or coarse-grained slate.

### Benefits of the green roof:

#### Environmental:

- Increases biodiversity in urban areas.
- Regulates temperature and humidity in the building and in the environment itself.
- Purifies the air and the rainwater.
- Serves as sound insulation.

#### Social:

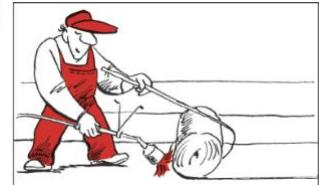
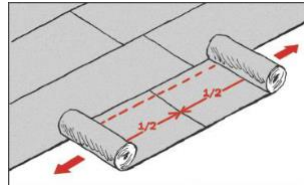
- Creates aesthetically attractive landscape.
- Creates recreational spaces.
- Could be used as a place for communication and education.

#### Economic:

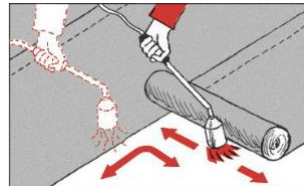
- The average expected life of the roof is more than 40 years.
- Real estate value increases.
- Reduces energy costs.
- Green roof maintenance costs could be lower than maintenance costs of the traditional roof.
- May be supported by the government via grants or reduced taxes.

### Installation:

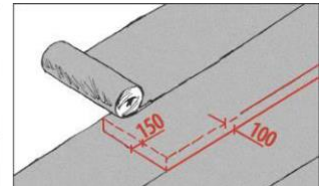
#### FLAT SURFACE



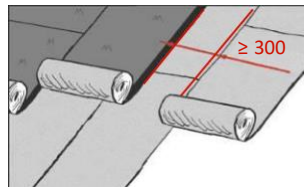
Roll out and align the membranes, then re-roll them tightly from both sides towards the centre. Heat the base and the bottom side of material at the same time to get a side towards the centre. small bitumen flow.



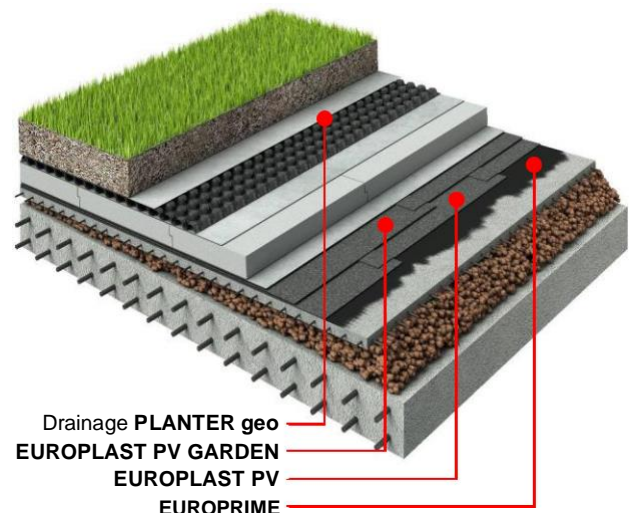
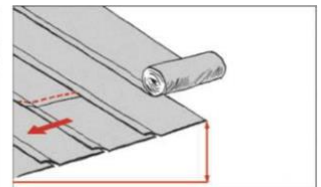
Heat the material and the base on all width of the roll, overlaps must be heated additionally.



Longitudinal overlaps should be 100 mm; end overlaps should be not less than 150 mm.



Cap sheet membrane on roofs with a slope should be positioned at a <math><15\%</math> slope. membranes are distance of min. 300 mm rolled out perpendicularly. from overlaps of underlay to the water flow,  $\ge 15\%$  - membrane. along the water flow.





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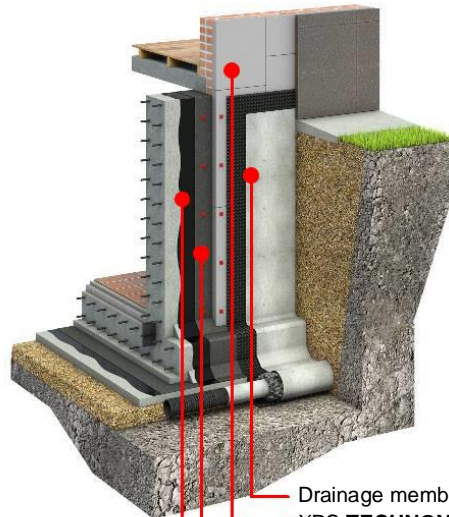
**General requirements:**

- Rolls of the material should be stored indoors in a dry place in their original packaging and taken to the construction site ready to use.
- Rolls should be stored upright on pallets in a 1-row height.
- Falls or other mechanical impacts should be avoided during transportation and storage. Roll's protective film should not be damaged.
- The application surface must be cleaned of dust, debris, grease, leaves, oil and should not have gaps and cracks or other irregularities to ensure proper adhesion of the membrane.

**NOTE:** A green roof can be installed on any roof that has a sufficient resistance to construction load and slope >2%.

**System solution:**

**FOUNDATION WITH THERMAL INSULATION**



Drainage membrane **PLANTER geo**  
**XPS TECHNICONICOL CARBON**  
**EURO PLAST PV +**  
**EURO PLAST PV GARDEN**  
**EUROPRIME**

**Product modifications:**

Product name	Roll dimensions, m	Mass per unit area, kg/m <sup>2</sup>	Thickness, mm	Protection of the top side	Protection of the bottom side
EUROPLAST PV GARDEN 4.0 mm	10 x 1	5.0±0.25*	4.0±0.10	polymer film or sand	polymer film
PRIMA PLAST PV GARDEN 4.5 kg Mineral	10 x 1	4.5±0.20	3.7±0.20*	coarse-grained slate	polymer film

\*Values are given for reference and not as a subject of declaration.

**Declared performance:**

Properties	Test method	Declared performance
Carrier type	-	polyester
Maximum tensile force L / T, N/50mm	EN 12311-1 (ASTM D5147)	600±150 / 400±150
Elongation L / T, %	EN 12311-1 (ASTM D5147)	30±15 / 30±15
Nail shank tear resistance L / T, N	EN 12310-1	180±50 / 180±50
Tear resistance L / T, N	ASTM D4073	300±100 / 300±100
Flow resistance at elevated temperature, °C	EN 1110 (ASTM D5147)	≥ +130
Flexibility at low temperature, °C	EN 1109-1 (ASTM D5147)	≤ 0

Footnotes: L / T – Longitudinal / Transverse