3b1

ROOFING IN TPO FOR PEDESTRIAN TRAFFIC BALLASTED WITH TRADITIONAL PAVING

Cold roof: with sealing element placed on top of the supporting element without thermal insulation

TOTALLY INDEPENDENT SYSTEM • REINFORCED CONCRETE SUBSTRATE

■ SUPPORTING ELEMENT or SUBSTRATE

The surface must:
1. Be smooth and free from debris and irregularities that may cause damage to the layers above
2. Be stable over time
3. Be chemically compatible with the roof system components
4. Have an adequate slope. A flat or sub-horizontal roof must have a slope ranging from 1.5 and 5 %.

■ ADJUSTMENT LAYER-COMPENSATION

FLAG geotextile PP, felt, non-woven, polypropylene whose weight ranges from minimum 500 g/m² depending upon the condition of the support.

■ SEALING ELEMENT

FLAGON EP/PV synthetic liner manufactured in TPO/FPO modified polyolefin, dimensionally stabilised with a layer of glass fibre (50 g/m²), resistant to weathering, ultraviolet rays and to root growth. It has a signal layer and it is hot air welded on the sheet overlaps.
The perimeter fixing at the base of the upstand must be performed with **Flag pre-drilled bar** in galvanised sheet iron.
Insert **Flag anti-puncturing joint** at the junction between two adjacent bars and hot-weld the tear prevention curb **FLAGOFIL TPO**.
Anti-root membrane, FLL certified.

■ PROTECTION LAYER

FLAG geotextile PP, felt, non-woven, polypropylene whose weight ranges from minimum 500 g/m² depending upon the condition of the support.

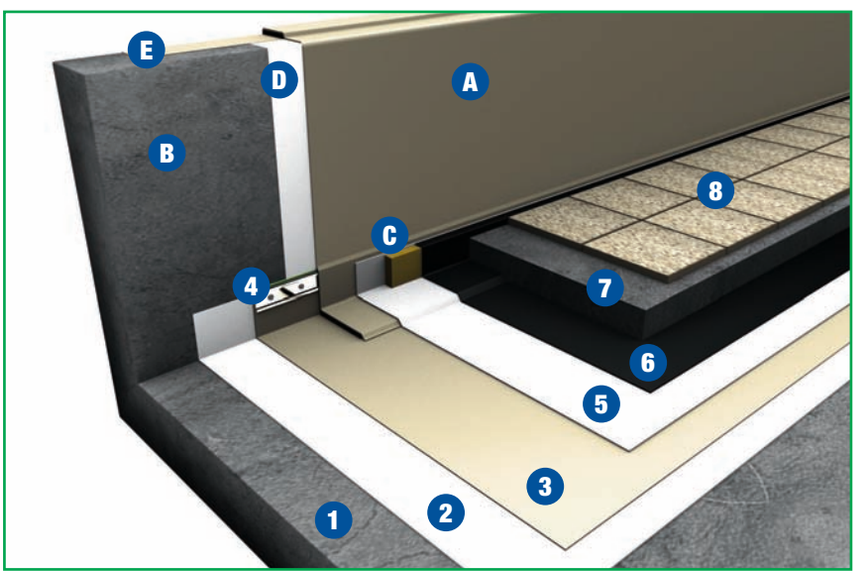
■ BARRIER LAYER

Dry laid **LDPE film** with adequate thickness.

■ BALLASTING AND PROTECTION LAYER

It is made up of a reinforced concrete screed with minimum 5 cm thickness and foot path covered with tiles (or equivalent material).
The waterproof membrane must be fixed at all upstands before laying the slabs.

	FLAGON EP/PV		
	STANDARD SYSTEM	**OPTIMUM SYSTEM**	**REINFORCED SYSTEM**
Finishing	Concrete cap sheet + tiles	Concrete cap sheet + tiles	Concrete cap sheet + tiles
Barrier layer	VAPOR FLAG 0.2	VAPOR FLAG 0.4	FLAG LDPE 0.8 mm
Protection layer	Non-woven felt PP ≥ 500 g/m²	Non-woven felt PP ≥ 500 g/m²	Non-woven felt PP ≥ 500 g/m²
Sealing element	**EP/PV - 1.5 mm**	**EP/PV - 2.0 mm**	**EP/PV - 2.4 mm**
Adjustment layer	Non-woven felt PP ≥ 500 g/m²	Non-woven felt PP ≥ 500 g/m²	Non-woven felt PP ≥ 500 g/m²
Slopes	1.5 % ≤ P ≤ 5 %	1.5 % ≤ P ≤ 5 %	1.5 % ≤ P ≤ 5 %



Horizontal surface

1. Supporting element
2. Adjustment layer
3. **FLAGON EP/PV**
4. Perimeter fixing by pre-drilled bar
5. Protection layer
6. Barrier layer LDPE
7. Concrete cap sheet
8. Tiles (equivalent material)

Vertical surface

A. **FLAGON EP/PV**
B. h<50 cm FLEXOCOL TPO vertical gluing layer
h>50 cm mechanical fixing
C. Compressible element
D. Separating layer in non-woven felt (non-adhered roof system)
E. Possible finishing elements:
- Flagmetal termination strip and flashing
- Flagmetal strip under cap
- Flagmetal perimeter profile

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