

■ SUPPORTING ELEMENT or SUBSTRATE

The surface must:

- 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 roofing system components
- 4. Have an adequate slope. A flat or sub-horizontal roof must have a slope ranging from 1.5 and 5%.

■ VAPOUR BARRIER

It depends upon the hygrometry of the underlying structures. For further details please refer to the booklet "Vapour Barrier".

A vapour retarder may consist of:

- PE: VAPOR FLAG
- Bitumen: ELASTOVAP
- Bituminous polymer membrane: SOPRAVAP 3 in 1

■ INSULATION ELEMENT

- It must have an adequate compressive resistance (UNI EN 826).
- The insulation boards should be fully bonded in order to avoid unabsorbed water and allow the overlaps to be adequately hot air welded.
- Compatible with the warm roofing system.
- Laying:
- dry laid on VAPOR FLAG
- dry laid on **ELASTOVAP**
- totally adherent by **SOPRAVAP 3 in 1**.

■ SEALING ELEMENT

FLAGON EP/PV synthetic membrane manufactured in TPO modified polyolefin, dimensionally stabilised by a glass fibre (50g/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.

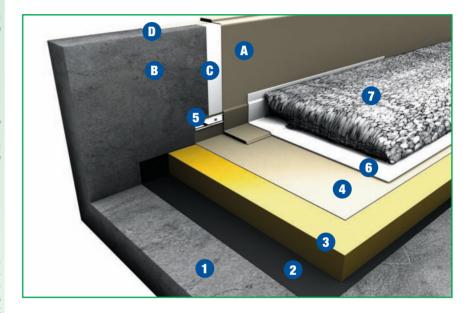
■ FILTRATION LAYER

FLAG geotextile PET, felt, non-woven, polyester whose weight ranges from minimum 400 g/m² depending upon the condition of the support.

■ BALLASTING AND PROTECTION LAYER (GRAVEL)

River-washed, round gravel 12/35 mm, loose-laid to a minimum depth > 5 cm in order to prevent wind from lifting or moving the dry-laid stratification package.

	FLAGON EP/PV		
	STANDARD SYSTEM	OPTIMUM System	REINFORCED System
Finishing	GRAVEL	GRAVEL	GRAVEL
Filtration layer	Non-woven felt PET ≥ 400 g/m ²	Non-woven felt PET ≥ 400 g/m ²	Non-woven felt PET ≥ 400 g/m²
Sealing element	EP/PV - 1.5 mm	EP/PV - 2.0 mm	EP/PV - 2.4 mm
Insulation element	YES	YES	YES
Vapour Barrier	YES	YES	YES
Slopes	1.5 % ≤ P ≤ 5 %	1.5 % ≤ P ≤ 5 %	1.5 % ≤ P ≤ 5 %



Horizontal surface

- 1. Supporting element
- 2. Vapour Barrier
- 3. Insulation element 4. **FLAGON EP/PV**
- 5. Perimeter pre-drilled bar
- 6. Filtration layer
- 7. Ballasting layer (Gravel)

Vertical surface

A. FLAGON EP/PV

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

Flag S.p.A. - SOPREMA GROUP

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