

# Pedestrian-accessible roof with paving slabs

## REINFORCED CONCRETE SUBSTRATE

0 - 5% SLOPE



B<sup>3</sup>

## CHARACTERISTICS

### SUBSTRATE

- Reinforced concrete compliant with standards.
- A single layer system is not recommended for  $\geq 500\text{m}^2$  roofs covered with paving slabs.

### 1 PRIMER

- AQUADERE®**: cold-applied, solvent-free elastomeric bitumen primer for torch-on membranes.
- Alternative: **SOPRADERE®**.

### 2 VAPOUR BARRIER

- Standard conditions: **ELASTOPHENE® 25**, a fully torched membrane ( $S_d = 500\text{m}$ ) or **SOPRAVAP® 3 IN 1** liquid solution ( $S_d = 1000\text{m}$ ).
- In other cases: refer to vapour barrier documentation.
- In tropical areas a vapour barrier is not compulsory.

### 3 THERMAL INSULATION

- A fully adhered system is recommended for the following thermal insulation panels: **cellular glass**, **expanded perlite**, **bitumen-surfaced mineral wool**. It is also recommended on inverted roofs with **XPS** thermal insulation panels.
- For **PUR**, **PIR** and **EPS** (mass density  $\geq 25\text{kg/m}^3$ ), the separating and protective **NTS 170** geotextile must be installed between thermal insulation panels and the paving slabs to ensure independent installation.
- The panels must be laid in a staggered pattern with tight joints.
- Use **XPS** thermal insulation panels only for inverted roofs.

### 4 WATERPROOFING

- In bilayer waterproofing systems, membranes are interchangeable unless the cap sheet is protected by slate chippings or if **STYRBASE® STICK** is used as a base sheet.

## SOPREMA TIPS



- Upstand variant: **ALSAN® FLASHING** (European Technical Approval ETA-08/0114) will avoid the use of counter flashing protection on parapets. This no-flame system is easy to apply and saves application time.
- A  $\geq 2\%$  slope will avoid water stagnation and the risk of foul odours.
- With high **SOPREMA** adjustable support pads, upstands can be hidden to reduce the height to 10cm without mechanical protection.
- The self-protected cap sheet provides further fire protection and easy maintenance (self-washing and non-adhered support pads).
- SOPRAVAP® 3 IN 1** is an optimal solution combining three functions: primer, vapour barrier and insulation adhesive. Do not hesitate to contact our technical team for advice.

## SOPREMA SYSTEM with insulation

CE Marking Technical Approval	ELASTOPHENE® FLAM / SOPRALENE® FLAM
	BILAYER SBS SYSTEM
2 <sup>nd</sup> layer	SOPRALENE® FLAM 180 AR
1 <sup>st</sup> layer	SOPRALENE® FLAM 180
Total thickness	6mm
Performance	F 5 I 5 T 4



① Primer ② Vapour barrier ③ Vapour barrier corner reinforcement ④ SOPRACOLLE 300 N ⑤ Thermal insulation panel ⑥ 1<sup>st</sup> waterproofing layer SOPRALENE® FLAM 180 ⑦ Corner reinforcement SOPRALENE® ⑧ 2<sup>nd</sup> waterproofing layer SOPRALENE® FLAM 180 AR ⑨ 2<sup>nd</sup> layer for upstand SOPRALENE® ⑩ SOPREMA support pads ⑪ Paving slabs

## TECHNICAL INFORMATION

### PROTECTION

- SOPREMA** adjustable support pads are available from a height of 40mm to 260mm. If the height of the support pad is  $\geq 15\text{cm}$ , the paving slabs must be designed to support load-bearing capacities.
- Maritime pine paving slabs\* **DALDECOR** (50x50cm) treated against class IV biological deterioration. Load-bearing capacities  $\leq 250\text{kg/m}^2$ .
- Ipe timber paving slabs\* **PRESTIDALLE** (50x50cm).
- Massaranduba wood paving slabs\* **EXODALLE** (50x50cm), treated against class IV biological deterioration.
- Reconstituted stone paving slabs **SOPRADALLE QUARTZ**: 20x20cm, 20x40cm, 40x60cm, 40x40cm. Available in 6 colours. Load-bearing capacities  $\leq 250\text{kg/m}^2$ .

\* The use of timber tiles is limited to wind pressure of 4091 Pa (funsuited for hurricane areas).



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