

Non-accessible roof with ballast

REINFORCED CONCRETE SUBSTRATE

0 - 5% SLOPE



A^{1'}

CHARACTERISTICS

SUBSTRATE

- Reinforced concrete compliant with standards.

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 (Sd = 500m) or **SOPRAVAP® 3 IN 1 liquid solution** (Sd = 1000m).
- In other cases: refer to vapour barrier documentation.
- In tropical areas a vapour barrier is not compulsory.

3 THERMAL INSULATION

- Bonded onto the vapour barrier with strips/spots of:
 - SOPRAVAP® 3 IN 1**, fully bonded.
 - COLTACK®**, a polyurethane bitumen-based adhesive (fluid consistency).
 - SOPRACOLLE 300 N**, an elastomeric bitumen-based adhesive (gel consistency).
- COLTACK®** cannot be used with mineral wool and expanded perlite.
- Compatible thermal insulation panels: **PUR, PIR** and **EPS**. These types of insulation require **SOPRAVOILE 100**, a fire resistant separating layer, on top of thermal insulation panels for torch-on membranes.
- The panels must be laid in a staggered pattern with tight joints.
- 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.

4 WATERPROOFING

- In bilayer waterproofing systems, membranes are interchangeable unless the cap sheet is protected by slate chippings.
- Different coloured slate finishes are available.

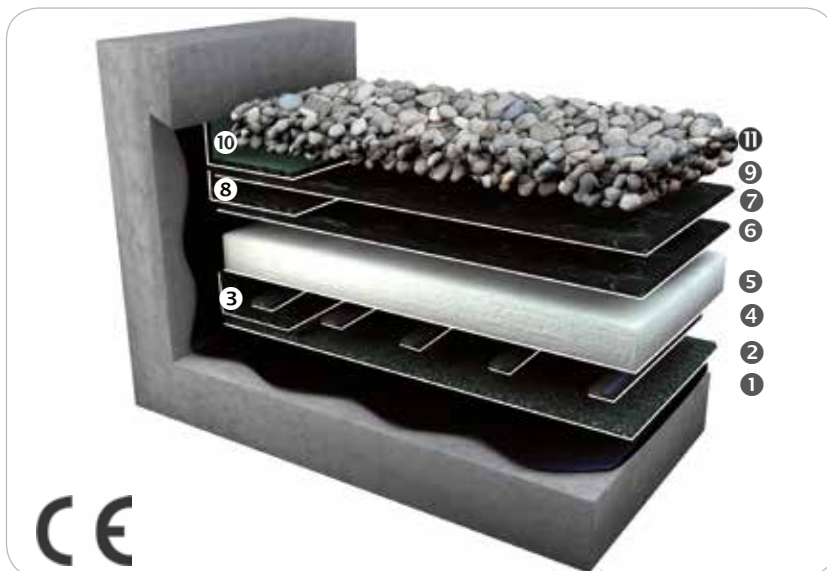
SOPREMA TIPS



- 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 ≥ 2% slope will avoid water stagnation, improve conditions of use and extend service life.
- A first layer with a polyester reinforcement provides mechanical security during the installation.
- 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 thermal insulation

CE Marking	MONOGUM®
	BILAYER APP SYSTEM
2 nd layer	MONOGUM® 4.0 P
1 st layer	MONOGUM® 3.0 P
Fire resistant separating sheet	SOPRAVOILE 100
Total thickness	7mm
Performance	F5 I5 T4



① Primer ② Vapour barrier ③ Vapour barrier corner reinforcement ④ SOPRACOLLE 300 N ⑤ Thermal insulation panels ⑥ SOPRAVOILE 100 ⑦ 1st waterproofing layer MONOGUM® 3.0 P ⑧ Corner reinforcement MONOGUM® ⑨ 2nd waterproofing layer MONOGUM® 4.0 P ⑩ layer for upstand MONOGUM® ⑪ Ballast (gravel)

TECHNICAL INFORMATION

TECHNICAL ROOF

- Choosing **MONOGUM® 4.0 P** allows its use on technical roofs.

PROTECTION

- Minimum 4cm of rounded or crushed gravel. Gravel diameter should be minimum 5mm thick and maximum 2/3 of the total height of protection. The separating and protective geotextile **NTS 170** will be added between the crushed gravel and the waterproofing system.
- Around the edges of the roof, pentices and for roof walkways, concrete paving slabs (1 or 2 metres width) will be laid on gravel.



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