

Code RS3.3 Insulated Roof Multi-purpose Terraces

Elastoval 2-layer system

Premium quality, high performance bituminous warm roof system for multi-purpose terraces, where green roof areas are combined with areas covered by ceramic tiles.



This system is for new build projects. Suitable for concrete decks.

Build-up	2-layer system
Slope	1%
System	Torch applied top layer / termo-adesive base layer
Type	New roofs
Insulation	Thermo-adhesive bonded
Deck	Concrete deck
Protection	Ceramic tiles pavement combined with Green Roof areas

	Build-up	mm
9	Pavement, Ceramic tiles glued over concrete reinforced screed combined with green roof areas	50 - 500
8	Drainage and protection, VZ DRAIN GR-2F loose laid applied	15
7	Waterproofing, top layer SBS modified bitumen with anti-root agent membrane, ELASTOGUM ANTIRADICE 4PLA , fully torch applied	4,0
6	Waterproofing, Base sheet SBS modified bitumen membrane, TERMOVAL 4PL , adhesive	4,0
5	Insulation, PIR insulation panel paper faced 0,022 W/mK , 150kPa	100
4	Vapour barrier, RILEVAL 4ALU modified bitumen membrane sd=1500m with thermo-adhesive top surface for insulation panels direct bonding	4,0
3	Bituminous primer, VERVAL PRIMER 0,3 L/m ²	0,1
2	Concrete screed, slope 1%	
1	Structural - Concrete deck	

Note PIR insulation panels can be substituted by naked EPS 0,033 W/mK 150kPa insulation boards

Method of Application

- Clean the concrete surface thoroughly free from loose materials, laitance, dust, oils and curing agents
- Prepare horizontal surface and vertical upstands with Verval Primer or EcoPrimer 0,3L/m² and allow to dry,
- Install Rileval 4ALU vapour barrier fully torched on horizontal surface with minimum 10 cm side lap/head lap overlapping and along all upstands with a minimum height 5cm higher than insulation,
- Install PIR paper faced insulation boards with staggered joints, bonded directly over thermo-adhesive vapour barrier top surface gently activated by torching
- Install Ternoval adhesive base layer over PIR insulation board. Side lap and head lap 100mm overlappings, head joints 1m staggered
- Install Elastogum Antiradice 4PLA top layer fully torched over Ternoval base sheet. Side lap 100mm / head lap 100mm overlappings, head joints 1m staggered,
- Secure all joints by torching.
- Install VZ Drain GR 2F loose laid over top layer membrane, 50mm side lap / head lap overlappings,
- Install concrete reinforced screed with glued ceramic tiles / soil for green roof areas

