

Code RS2.1

Insulated Roof with heavy protection

Elastoval 2-layer system

Premium quality, high performance bituminous warm roof system for technical roofs under heavy protection.



This system is for new build projects or refurbishment projects (where conditions allow, existing systems can be overlaid). Suitable for concrete decks.

Build-up	2-layer system
Slope	1%
System	Torch applied cap sheet / Thermo-adhesive base layer
Type	New roofs or refurbishment
Insulation	Thermo-adhesive bonded
Deck	Concrete deck
Protection	Gravel or concrete tiles



	Build-up	mm
9	Heavy protection, gravels 40mm or concrete tiles 50mm	40-50
8	Drainage and protection, <b>VZ DRAIN 10 - 2F</b> loose laid applied	10
7	Waterproofing, top layer sheet SBS modified bitumen membrane, <b>ELASTOVAL 4PL SPECIAL</b> , fully torch applied	4,0
6	Waterproofing, Base sheet SBS modified bitumen membrane, <b>TERMOVAL 4PL</b> , adhesive	4,0
5	Insulation, EPS expanded polystyrene 0,033W/mK , 150kPa	100
4	Vapour barrier, <b>RILEVAL 4ALU</b> modified bitumen membrane sd=1500m with thermo-adhesive top surface for insulation panels direct bonding	4,0
3	Bituminous primer, <b>VERVAL PRIMER</b> 0,3 L/m2	0,1
2	Concrete screed, slope 1%	
1	Structural - Concrete deck	
Note	EPS insulation boards can be substituted by PIR 0,022 W/mK 150kPa paper surfaced 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 then insulation,
- Install naked EPS insulation board with staggered joints, bonded directly over thermo-adhesive vapour barrier top surface gently activated by torching
- Install Ternoval adhesive base layer over necked EPS insulation board. Side lap and head lap 100mm, head joints 1m staggered
- Install Elastoval 4PL Special top layer fully torched over Ternoval base sheet. Side lap 100mm / head lap 100mm, head joints 1m staggered
- Secure all joints by torching.
- Install VZ Drain 10 - 2F loose laid over top layer membrane, 50mm side lap / head lap overlapping
- Install gravel or concrete tiles

