

Code RS2.2

Insulated Roof with heavy protection

Elastoval Single layer system

Premium quality, high performance bituminous warm roof system for flat roof 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	Single layer roofing system
Slope	1%
System	Torch applied single layer sheet
Type	New roof or refurbishment
Insulation	Thermo-adhesive bonded
Deck	Concrete deck
Protection	Gravel or concrete tiles



	Build-up	mm
8	Heavy protection, gravels 40mm or concrete tiles 50mm	40-50
7	Drainage and protection, VZ DRAIN 10 - 2F loose laid applied	10
6	Waterproofing, Single layer SBS modified bitumen membrane, ELASTOVAL 4PL SUPER , fully torch applied	4,0
5	Insulation, PIR insulation panel bitumen faced 0,026 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 MW Mineral Wool bitumen faced 0,040 W/mK 70kPa 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 bitumen faced insulation boards with staggered joints, bonded directly over thermo-adhesive vapour barrier top surface gently activated by torching
- Install Elastoval 4PL Super membrane fully torched over insulation panels. Side lap 100mm / head lap 150mm overlapping, 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

