

Code RS1.1

Insulated Exposed Technical Roof

Extragum Green-Energy 2-layer system

Premium quality, high performance bituminous warm roof system for exposed technical flat roofs. The cap sheet is available with reflective REFLEVAL surfacing for Cool Roof or other colours for architectural purposes. This system is EPD and LEED compliant



This system is for new build 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
Insulation	Thermo-adhesive bonded
Type	New roofs or Refurbishment
Deck	Concrete
Certification	EPD and LEED Compliant
External Fire performance	B Roof T2 (see note 2)



Extragum Green-Energy 2-layer system

	Build-up	mm
7	Waterproofing, Cap sheet modified bitumen membrane with high recycled material content, EXTRAGUM GREEN-ENERGY MINERAL , fully torch applied	5,2
6	Waterproofing, Base sheet SBS modified bitumen membrane, TERMOVAL 4 PL , adhesive	4,0
5	Insulation, EPS expanded polystyrene 0,033W/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/m2	0,1
2	Concrete screed, slope 1%	
1	Structural - Concrete deck	

Note : (1) EPS insulation boards can be substituted by PIR 0,022 W/mK 150kPa paper surfaced insulation boards

(2) In case of high external fire performance Extragum Green-Energy can be substituted with **Professional 20 Mineral Fire Defence**

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 staggerd joints, bonded directly over thermo-adhesive vapour barrier top surface gently activated by torching
- Install Termoval adhesive base layer over insulation board. Side lap and head lap 100mm, head joints 1m staggered
- Install Extragum Green-Energy Mineral (or Professional Fire Defence) cap sheet fully torched over Termoval base sheet. Side lap 100mm / head lap 100mm, head joints 1m staggered
- Secure all joints by torching.