

Code RS1.2

Insulated Exposed Technical Roof

Extragum Green-Energy single-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	1-layer system
Slope	1%
System	Torch applied Cap sheet
Insulation	Thermo-adhesive bonded
Type	New roofs or refurbishment
Deck	Concrete deck
Certification	EPD and LEED compliant
External fire performance	BRoof T2 (see note 1)



Extragum Green-Energy single-layer system

	Build-up	mm
6	Waterproofing, Single layer Cap sheet modified bitumen membrane with high recycled material content , EXTRAGUM GREEN-ENERGY MINERAL , fully torch applied	5,2
5	Insulation, PIR rigid polyiso foam panels bitumen faced 0,025W/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) 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 PIR insulation bitumen faced board with staggerd joints, bonded directly over thermo-adhesive vapour barrier top surface gently activated by torching
- Install Extragum Green-Energy Mineral (or Professional Fire Defence) cap sheet fully torched over PIR insulation bitumen faced boards. Side lap 100mm / head lap 150mm, head joints 1m staggered,
- Install Extragum 3mm base layer 250 mm wide strip band along all perimeter, skylights and other structure upstands, fully torched on vertical substrates and horizontally over Extragum Green-Energy Mineral (or Professional Fire Defence) cap sheet. Complete vertical upstands with Extragum Green-Energy Mineral fully torch applied.
- Secure all joints by torching.