

Code RS2.3

Insulated Roof with heavy protection

Elastoval 2-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 wooden decks.

|            |  |
|------------|--|
| Build-up   | 2- layer roofing system                              |
| Slope      | 2%   |
| System     | Torch applied top layer / Thermo-adhesive base layer |
| Type       | New roof or refurbishment                            |
| Insulation | Glued  |
| Deck       | Wooden deck  |
| Protection | Gravel or concrete tiles                             |



|      | Build-up  | mm    |
|------|---|-------|
| 8    | Heavy protection, gravels 40mm or concrete tiles 50mm   | 40-50 |
| 7    | Drainage and protection, <b>VZ DRAIN 10 - 2F</b> loose laid applied   | 10    |
| 6    | Waterproofing, top layer sheet SBS modified bitumen membrane, <b>ELASTOVAL 4PL SPECIAL</b> , fully torch applied                                    | 4,0   |
| 5    | Waterproofing, Base sheet SBS modified bitumen membrane, <b>TERMOVAL 4PL</b> , adhesive   | 4,0   |
| 4    | Insulation, PIR rigid polyiso foam panels 0,022 W/mK 150kPa multi-paper faced, glued on vapour barrier glued with <b>VALCOAT ISO</b> adhesive agent | 100   |
| 3    | Vapour barrier, <b>ADESIVAL VAP SPP</b> adhesive bitumen membrane sd=1500m  | 3,0   |
| 2    | Bituminous primer, <b>VERVAL PRIMER</b> 0,3 L/m <sup>2</sup>  | 0,1   |
| 1    | Structural - Wood deck  |       |
| Note | PIR insulation boards can be substituted by naked EPS 0,033 W/mK 150kPa   |       |

## Method of Application

- Clean the wood surface thoroughly free from loose materials and dust
- Prepare horizontal surface and vertical upstands with Verval Primer or EcoPrimer 0,3L/m<sup>2</sup> and allow to dry,
- Install Adesival Vap 3mm adhesive vapour barrier 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 insulation board with staggered joints, bonded directly over vapour barrier with Valcoat Iso glue 0,8 kg/m<sup>2</sup>
- Install Termoal adhesive base layer over necked EPS insulation board. Side lap and head lap 100mm overlapping, head joints 1m staggered
- Install Elastoval 4PL Special top layer fully torched over Termoal base sheet. Side lap 100mm / head lap 100mm 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

