

UNIVERSAL INSULATED FLAT ROOF SYSTEM

WARM FLAT ROOF WITH PIR INSULATION AND FLEXIBLE WATERPROOFING OPTIONS

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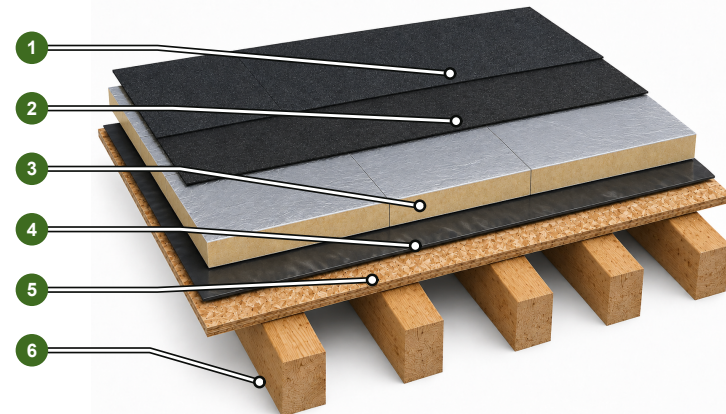
SYSTEM OVERVIEW

The warm roof combines a timber deck, vapour control, aluminium-faced PIR and durable waterproofing. The hero shows the two-layer bituminous reference build-up; other compatible systems may be selected.

Verify structure, falls, drainage, wind, fire and all junctions.

WHY ECOVIVA

- Independent renovation guidance
- Local Mallorca expertise
- Project-specific technical verification
- One point of contact from concept to completion



SIX-PART WARM FLAT ROOF BUILD-UP

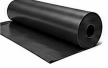
- 1 Waterproofing cap sheet**
Upper torch-on membrane forming the weather-exposed finish.
- 2 Waterproofing base sheet**
Lower torch-on membrane completing the two-layer reference system.
- 3 Aluminium-faced PIR insulation**
Rigid insulation forming a continuous thermal layer.
- 4 V3 vapour barrier**
Continuous vapour-control layer below the insulation.
- 5 Structural OSB/3 deck**
Rigid load-bearing deck supporting the warm-roof build-up.
- 6 Structural timber joists**
Primary roof structure sized for project spans and loads.

KEY TECHNICAL PRINCIPLES

- ✓ CONTINUOUS VAPOUR CONTROL**
Seal the vapour barrier at laps, penetrations and perimeter connections.
- ✓ DESIGNED ROOF FALLS**
Provide sufficient falls toward outlets without persistent ponding.
- ✓ SECURE PERIMETERS AND PENETRATIONS**
Detail edges, upstands, drains, rooflights and services carefully.
- ✓ CONTINUOUS PIR INSULATION**
Keep the insulation layer uninterrupted to reduce thermal bridging.
- ✓ COMPATIBLE WATERPROOFING**
Use primers, membranes, adhesives and accessories as one system.
- ✓ WIND, FIRE AND MOISTURE VERIFICATION**
Verify wind uplift, fire performance, condensation and fixings.

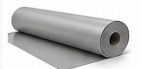
EXAMPLES OF COMPONENTS USED IN THE SYSTEM

Components are selected for the deck, insulation, waterproofing, geometry, exposure and project requirements.

							
Roof waterproofing system Selected membrane or liquid finish.	V3 black vapour barrier Continuous vapour-control layer.	Aluminium-faced PIR insulation High-performance rigid insulation.	Roof drain with leaf guard Rainwater outlet with debris guard.	Aluminium roof edge profile Edge trim with fascia and drip.	Zinc / galvanised flashing Formed metal for junctions and upstands.	Stainless-steel fixings Corrosion-resistant roof fixings.	Structural timber joist Primary member sized for roof loads.

ROOF WATERPROOFING OPTIONS

Select the waterproofing for the geometry, substrate, exposure, detailing, maintenance and project requirements.

	BITUMINOUS ROOFING Two-layer torch-on system with robust, established detailing. REFERENCE SYSTEM SHOWN IN HERO		RESITRIX® EPDM HYBRID MEMBRANE Reinforced EPDM with bituminous backing and welded joints.		EPDM SINGLE-PLY MEMBRANE Flexible rubber membrane with strong weather and UV resistance.
	PVC ROOFING MEMBRANE Lightweight thermoplastic membrane with welded seams.		TPO ROOFING MEMBRANE Recyclable thermoplastic membrane resistant to heat and UV.		LIQUID WATERPROOFING SYSTEM Seamless PMMA or PU solution for complex details and repairs.

KEY BENEFITS

- High thermal performance
- Continuous external roof insulation
- Reduced thermal bridging
- Flexible waterproofing selection
- Reliable rainwater drainage
- Durable weather protection
- Adaptable perimeter detailing
- Renovation and new-build use

TYPICAL APPLICATIONS

- Timber flat roofs
- Villa roof renovations
- Residential extensions
- Garages and annexes
- Apartment and commercial buildings
- New-build warm flat roofs

WATERPROOFING SELECTION AND SERVICE LIFE

Performance depends on system choice, preparation, detailing, drainage, exposure and maintenance. Compatibility, joints, repairability and roof access must be reviewed.

IMPORTANT TECHNICAL REQUIREMENTS

Verify structure and provide continuous falls to sized outlets; Seal vapour control and keep PIR continuous; Use compatible waterproofing and secure perimeters; Detail drains, upstands, penetrations, edges and façades; Check condensation, fire, access and Mallorca exposure; Follow the CTE and project documents.