

# ThermaProof™

**RMAX**  
Innovation working for you

HIGH PERFORMANCE WATER RESISTANT  
EXTERIOR ROOFING INSULATION



**ThermaProof™** is a new generation roofing product developed for applications that are subject to high moisture and humidity and which require high compressive strength. Under such situations the insulating materials used should absorb as little water as possible, since water absorption has a detrimental effect on thermal insulation.

The need to achieve a six star rating in designs and construction of buildings today require 'life of structure' performance. Unlike some insulation materials whose insulation performance deteriorates to a large degree when exposed to water and humidity, ThermaProof™ retains its water resistance and insulative properties for the life of the building.

The superior water resistance of ThermaProof™ is achieved using Peripor®, a unique technology developed by BASF.

ThermaProof™ is identified by its orange colour. It is comparable in performance to extruded polystyrene (XPS) roofing systems. With the ease of installation and the need for high water resistance, ThermaProof™ has it covered.

ThermaProof™ is exclusively manufactured by RMAX, Australia's leading producer of environmentally friendly EPS products, using BASF Peripor® technology.

### Fixed Roof Applications

ThermaProof™ is normally installed on top of a waterproofing membrane. It acts as a protective layer, prolonging the lifespan of the membrane and providing efficient thermal insulation for the space below. A plastic membrane acting as a joint separator is laid over the board before applying a good cement sand screed or using a suitable ballast such as river pebbles. The joints facilitate installation and prevent the entry of water.

### Roof Garden Applications

Flat roofs and open areas, such as balconies, present the possibility of conversion into an actual garden. Such garden systems offer lightweight solutions to conventional roof garden systems. And some even enable water retention within the system, thus reducing the need to water plants.

For rooftop garden applications ThermaProof™ can be easily installed on both old and new RC flat roofs. These trays are placed on top of a waterproofing membrane before selected backfill materials are placed as growing media.

### Technical

Unlike conventional expanded polystyrene (EPS), ThermaProof™ has a very low water absorption rate, thus ensuring a consistent k value. This feature makes it the ideal roofing solution where exposure to rain and ground water is a common occurrence.

### Material

- Overlapping insulation board moulded from flame retardant Peripor® resin with low water absorption and high mechanical strength
- The finished board is orange in colour
- The thermal conductivity k value of the board is in the range of 0.038-0.034



### Key Features of ThermaProof™

- Consistent thermal conductivity values
- Superior water resistance properties
- Excellent compressive strength
- Overlapping joints
- Consistent thermal conductivity values
- Water resistance
- Easy to install
- Allows for renovations of existing buildings

### RMAX – Innovation Working for You

RMAX is a company driven by innovation. We have pioneered Rigid Cellular Plastics product technologies, leading the development of innovative product solutions for our customers and international partners.

### Energy Efficient Manufacture

RMAX environmental EPS is highly energy efficient. The energy saved over the lifetime of a ThermaProof™ system in reduced energy demand, more than compensates for the raw material used in its production. The manufacturing process is a low pollution process.

### Recycling EPS

EPS products are recyclable and RMAX has established recycling facilities in all of its plants throughout Australia. RMAX is a member of PACIA (Plastics and Chemical Industries Association) and through REPSA (Recycling Expanded Polystyrene Australia) RMAX plays a major role in recycling.

For more information and a Technical brochure please email [sales@rmax.com.au](mailto:sales@rmax.com.au) or call **1300 888 972**

The pictures shown in this brochure are for illustrative purposes only to demonstrate creativity and design and construction flexibility. They do not imply that ThermaProof™ was used in their construction.

