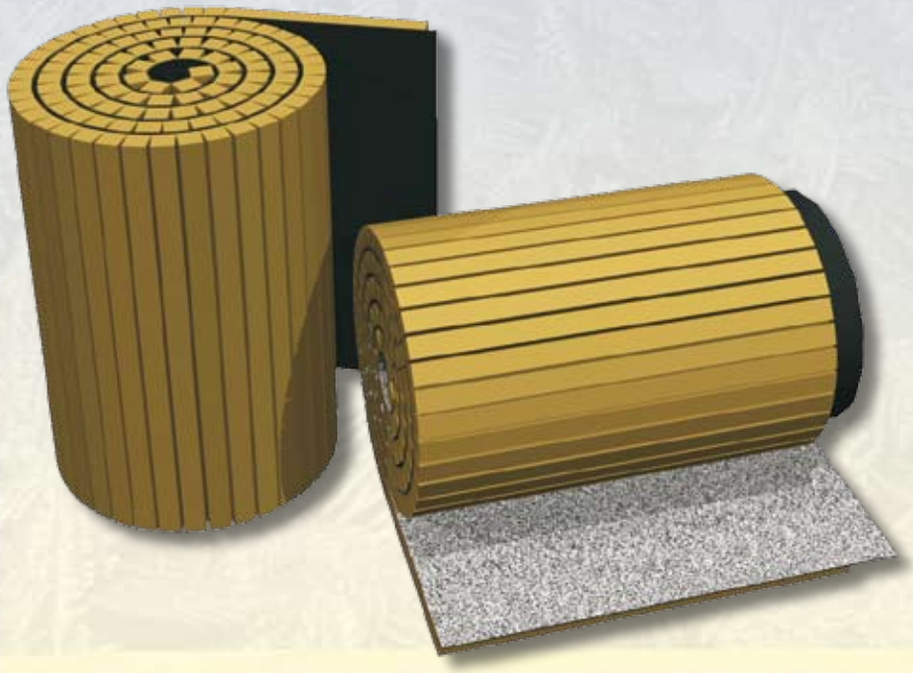
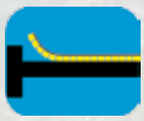
isolparma
RIGID FOAM

# Insulating and Waterproofing Roofing Rolls



## ISOROLL MW

### Main applications


Flat roofs with exposed waterproofing layer


Pitched roofs below tiles or slates


Shed roofs


Prefabricated R.C. roofs elements


Vaulted roofs

### CE marking

Mineral Wool Insulation (MW)

Polymer Bitumen Membrane

**ISOROLL MW is an insulating and waterproofing roofing roll made of a scored Mineral Wool board torch-bonded in a factory controlled environment to a polymer modified bituminous waterproofing membrane**

### Production Range

ISOROLL MW is available with different classes of insulation board (MW 100, MW 120 and MW 150) torch-bonded to an APP- or an SBS- polymer modified bituminous waterproofing membrane of choice for type of carrier, thickness or unit weight and surface finish (see technical data overleaf).

### Main applications

Thermal insulation and waterproofing of most civil and industrial flat roofs and other constructions.

### Specification wording

The insulation and the waterproofing will consist of a layer of ISOLPARMA ISOROLL MW with scored Mineral Fibre board (type…) … mm thick, lined with a polymer bitumen membrane (type ) .....

### Sizes and packaging

ISOROLL MW is available in rolls 100 cm or 120 cm wide with a side selvedge of 5 to 10 cm.
Rolls are packed in PE bags on pallets (4 rolls/pallet).
Roll length varies with the thickness of the insulating material (see table).

| MW Thickness mm | Rool sizes m |
|---|---|
| 30 | 7,5 x 1 o 1,2 |
| 40 | 6 x 1 o 1,2 |
| 50 | 5 x 1 o 1,2 |
| 60 | 4 x 1 o 1,2 |
| 80 | 3 x 1 o 1,2 |
| 100 | 2 x 1 o 1,2 |

Laboratory tests have compared the thermal transmittance values of standard flat boards, of rolls of scored boards and of cut-in boards. When correctly installed, all three types show comparable values except for minor variations.

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# Insulating and Waterproofing Roofing Rolls

# ISOROLL MW

## SPECIFICATION WORDING

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## TECHNICAL DATA SHEET OF THE MW BOARD

UNI EN 13162

| | | | | | Classes MW | | | |
|---|---|---|---|---|---|---|---|---|
| **Properties** | **Code** | **Norm** | **Description** | | **100** | **120** | **150** | **Unit** |
| Declared heat conductivity | $\lambda_D$ | UNI EN 12667 | value measured at a mean temperature of 10 °C | | 0,035 | 0,037 | 0,038 | W/mK |
| Declared heat conductivity | $R_D$ | UNI EN 12667 | related to thickness $R_D=d/\lambda_D$ | mm 30 | 0,86 | 0,81 | 0,79 | $(m^2K)/W$ |
| | | | | mm 40 | 1,14 | 1,08 | 1,05 | |
| | | | | mm 50 | 1,43 | 1,35 | 1,32 | |
| | | | | mm 60 | 1,71 | 1,62 | 1,58 | |
| | | | | mm 80 | 2,29 | | 2,11 | |
| | | | | mm 100 | | | 2,63 | |
| Specific heat | Cp | | | | 840 | 840 | 840 | J/kgK |
| Resistance to compression | $\sigma_{10}$ | UNI EN 6350 | | | 0,025 | 0,048 | 0,072 | N/mmq |
| Resistance to water vapour diffusion | MU | UNI EN 12086 | | | 1,3-1,4 | 1,3-1,4 | 1,3-1,4 | μ |
| Water absorption by immersion | WL(T) | UNI EN 12087 | | | ≤ 2 | ≤ 2 | ≤ 2 | % volume |
| Fire rating | euroclass | UNI EN 13501-1 | | | A1 | A1 | A1 | |

## TECHNICAL DATA SHEET OF THE POLYMER BITUMEN MEMBRANES

UNI EN 13707
UNI EN 13859-1

| | | | TYPES OF MEMBRANE AND CARRIERS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Properties** | **Norm** | **Description** | **APP VV** | **APP VV** | **APP PE** | **APP PE** | **APP PE** | **APP PE** | **APP PE Min** | **APP PE Min** | **APP PE Min** | **SBS PE** | **Unit** |
| Mass | UNI EN 1849-1 | | 2 | 3 | - | - | 3 | 4 | 3,5 | 4 | 4,5 | 3 | $Kg/m^2$ |
| Thickness | UNI EN 1849-1 | | - | - | 3 | 4 | - | - | - | - | - | - | mm |
| Tensile Strength | UNI EN 12311-1 | Longitudinal | 300 | 300 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | N/5 cm |
| | | Transversal | 200 | 200 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | |
| Elongation at break | UNI EN 12311-1 | Longitudinal | 2 | 2 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | % |
| | | Transversal | 2 | 2 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | |
| Tear resistance | UNI EN 12310-1 | Longitudinal | 70 | 70 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | N |
| | | Transversal | 70 | 70 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | |
| Cold flexibility | UNI EN 1109 | | 0 | 0 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -10 | °C |
| Heat resistance | UNI EN 1110 | | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 90 | °C |

APP = Atactic Polypropylene ; SBS = Styrene butadiene styrene; VV = glass fibre reinforcement; PE = polyester reinforcement; MIN = slate finish

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