

**Document conforms:**

Part 1: Flexible sheets for waterproofing  
- Underlays for discontinuous roofing  
PN-EN 13859 – 1: 2010

**Document conforms:**

Part 2: Flexible sheets for waterproofing  
- Underlays for walls.  
PN-EN 13859 – 2: 2010



### Declaration of Conformity no. 01/2013

Flexible sheet for waterproofing - Underlay for discontinuous roofing

**Highly steam-permeable membrane 90**

**date of issue: 01-03-2013**

| PRODUCT CHARACTERISTIC | TEST METHODS | UNIT | NOMINAL VALUE | TOLERANCE |      |
|------------------------|--------------|------|---------------|-----------|------|
|                        |              |      |               | min.      | max. |

**Declared properties of the product:**

|   |                                  |  |                |         |         |
|---|----------------------------------|--|----------------|---------|---------|
| <b>Length</b>   | PN-EN 1848-2                     | [m]  | <b>50</b>      | -0 %    | -       |
| <b>Width</b>  | PN-EN 1848-2                     | [m]  | <b>1,5</b>     | -0,5%   | +1,5%   |
| <b>Straightness</b>   | PN-EN 1848-2                     | -  | Compliance     | -       | -       |
| <b>Dimensional stability</b>  | PN-EN 1107-2                     | [%]  | -              | -3/-1   | +3/+1   |
| <b>Dimension along/across</b>   |                                  |  |                |         |         |
| <b>Mass per unit area</b>   | PN-EN 1849-2                     | [g/m <sup>2</sup> ]                        | <b>90</b>      | -15g    | +15g    |
| <b>Reaction to fire</b>   | PN-EN1350-1                      | [Class]                                    | <b>E-d2</b>    | -       | -       |
| <b>Water tightness before and after artificial ageing</b>             | PN-EN 1928<br>(Method A)         | [Class]                                    | <b>W1</b>      | -       | -       |
| <b>Water vapour transmission (Sd)</b>                                 | PN-EN ISO 12572/C                | [m]  | <b>0,015</b>   | -0,01   | +0,02   |
| <b>Tensile resistance before artificial ageing along/across</b>       | PN-EN1231-1 A<br>PN-EN13859-1    | [N/50mm]                                   | <b>200/110</b> | -50/-50 | +50/+50 |
| <b>Elongation before artificial ageing along/across</b>               | PN-EN 12311-1 A<br>PN-EN13859-1  | [%]  | <b>70/90</b>   | -40/-40 | +40/+40 |
| <b>Resistance to tearing along/across</b>                             | PN-EN 12310-1<br>PN-EN 13859-1/B | [N]  | <b>60/60</b>   | -30/-30 | +60/+80 |
| <b>Flexibility at low temperature</b>                                 | PN-EN 1109                       | [°C]                                       | <b>-25</b>     | -       | -       |
| <b>Resistance to penetration of air by +/- difference in pressure</b> | PN-EN 12114                      | [m <sup>3</sup> /(m <sup>2</sup> xhx50Pa)] | <b>≤0,1</b>    | -       | -       |
| <b>Tensile resistance after artificial ageing along/across</b>        | PN-EN 12311-1 A<br>PN-EN 13859-1 | [N/50mm]                                   | <b>180/100</b> | -50/-50 | +50/+50 |
| <b>Elongation after artificial ageing along/across</b>                | PN-EN 12311-1 A<br>PN-EN 13859-1 | [%]  | <b>40/60</b>   | -30/-30 | +40/+40 |



**Application:** as the initial play of roof covering to seal the ventilated sloped roof coverings, in ventilated and non-ventilated roof systems – butt joining with insulation (also with narrow board decking), also as wind barrier in ventilated elevation walls. The producer does not guarantee the proper functioning of the product in case of application other than described.

The notified body no. 1486

Izolacja – Centralny Ośrodek Badawczo-Rozwojowy Przemysłu Izolacji Budowlanej – Pracownia Badań Jakościowych, Katowice, Poland.

Marma Polskie Folie Sp. z o.o.  
z siedzibą w Warszawie  
ul. Postępu 15C, 02-676 Warszawa  
Oddział w Rzeszowie

Al. Pod Kasztanami 10, 35-030 Rzeszów  
Zakład Produkcyjny: Marma Plast II Sp. z o.o. Sp. k.  
ul. Szybowskiego 1 39-460 Nowa Dęba, Poland

Krzysztof Stachowicz  
Pełnomocnik ds. ZKP  
signature of the person in authority