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## TECHNICAL DATA SHEET

1. Unique identification code of the product-type:  
SORBERG REFLEX AL90
2. Manufacturer:  
SORBERG s.c., ul. Krasickiego 1A/35, 99-200 Poddębice, Polska

3. Application:

Metallised vapour barrier membrane SORBERG REFLEX AL90 is the multilayer film consisting of one layer of metallized polypropylene film, polypropylene mesh and polyethylene film. The film SORBERG REFLEX AL90 is designed to perform vapor barrier in the construction of roofs. The metallised layer reflects thermal radiation, preventing heat loss. Product is insulating barrier to water vapor and the wind. Such membranes can be used in all ventilated and non-ventilated roofs.

Mechanical fixing permitted provided the use of special self-adhesive sealing tape.

4. Characteristics:

| Characteristic                            |                           | Method test       | Unit                  | Declared value              |
|---|---------------------------|-------------------|-----------------------|-----------------------------|
| Dimensions                                | Wigth*                    | PN-EN 1848-2      | m                     | 1,5 ± 0,5%                  |
|   | Length of the roll*       |                   | m                     | 50 (-0/+2%)                 |
|   | Thickness                 | PN-EN 1849-2      | mm                    | 0,20 (-00,01;+0,01)         |
| Mass per unit area                        |                           | PN-EN 1849-2      | g/m <sup>2</sup>      | 90 ± 20%                    |
| Reaction to fire                          |                           | PN-EN ISO 11925-2 | -                     | Class E                     |
| Water tightness (2 kPa)                   |                           | PN-EN 1928        | -                     | Conforming                  |
| Water tightness after artificial ageing   |                           | PN-EN 1296        | -                     | Conforming                  |
| Resistance to tearing                     | in longitudinal direction | PN-EN 12310-1     | N                     | ≥100                        |
|   | in transverse direction   |                   | N                     | ≥100                        |
| Maximum tensile stress                    | in longitudinal direction | PN-EN 12311-2     | N/50mm                | ≥220                        |
|   | in transverse direction   |                   | N/50mm                | ≥150                        |
| Elongation at break                       | in longitudinal direction |                   | %                     | ≥12                         |
|   | in transverse direction   |                   | %                     | ≥7                          |
| Water vapour resistance                   |                           | PN-EN 1931        | m <sup>2</sup> sPa/kg | 2,5 *10 <sup>11</sup> ± 20% |
| Water vapour transmission properties (Sd) |                           | PN-EN 1931        | m                     | 50 ± 30%                    |
| Temperature range                         |                           | -----             | °C                    | -40 ÷ 80                    |
| Chemical durability                       |                           | PN-EN 1847        | -                     | Conforming                  |
| Joint strenght                            |                           | PN-EN 12317-2     | -                     | Conforming                  |
| Resistance to impact                      |                           | PN-EN 12691       | mm                    | 500                         |
| Dangerous substances                      |                           | -----             |                       | NPD                         |

\*or as agreed with the customer