

Technical data sheet

# Austrotherm EPS<sup>®</sup> 100

| <b>Description:</b>         | Expanded polystyrene boards for insulation in construction  |                  |                         |                                     |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
|-----------------------------|---|------------------|-------------------------|-------------------------------------|-------------------------|-------------------------------------|----|----------|----|------|------|----|----------|----|-----|------|----|----------|----|-----|------|----|----------|----|-----|------|----|----------|---|-----|------|----|----------|---|-----|------|----|----------|---|-----|------|----|----------|---|-----|------|-----|----------|---|-----|------|-----|----------|---|-----|------|-----|----------|---|-----|------|-----|----------|---|-----|------|-----|----------|---|-----|------|-----|----------|---|-----|------|-----|----------|---|-----|------|
| <b>Application:</b>         | For thermal insulation of the last sub-roof floor, for areas with load - floors (under screed), flat roofs, cold rooms, etc.  |                  |                         |                                     |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| <b>Format:</b>              | Plates with a length of 1000 mm , a width of 500 mm , thicknesses from 20 to 400 mm<br>Edge shape: Straight edge (GK).  |                  |                         |                                     |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| <b>Quantity in package:</b> | <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Thickness ( mm )</th> <th>Length x width ( mm )</th> <th>Number of plates</th> <th>Area ( m<sup>2</sup> )</th> <th>R<sub>D</sub> m<sup>2</sup> K / W</th> </tr> </thead> <tbody> <tr><td>20</td><td>1000x500</td><td>24</td><td>12.0</td><td>0.55</td></tr> <tr><td>30</td><td>1000x500</td><td>16</td><td>8.0</td><td>0.85</td></tr> <tr><td>40</td><td>1000x500</td><td>12</td><td>6.0</td><td>1.15</td></tr> <tr><td>50</td><td>1000x500</td><td>10</td><td>5.0</td><td>1.45</td></tr> <tr><td>60</td><td>1000x500</td><td>8</td><td>4.0</td><td>1.75</td></tr> <tr><td>70</td><td>1000x500</td><td>7</td><td>3.5</td><td>2.05</td></tr> <tr><td>80</td><td>1000x500</td><td>6</td><td>3.0</td><td>2.35</td></tr> <tr><td>90</td><td>1000x500</td><td>5</td><td>2.5</td><td>2.60</td></tr> <tr><td>100</td><td>1000x500</td><td>5</td><td>2.5</td><td>2.90</td></tr> <tr><td>120</td><td>1000x500</td><td>4</td><td>2.0</td><td>3.50</td></tr> <tr><td>140</td><td>1000x500</td><td>4</td><td>2.0</td><td>4.10</td></tr> <tr><td>150</td><td>1000x500</td><td>3</td><td>1.5</td><td>4.40</td></tr> <tr><td>160</td><td>1000x500</td><td>3</td><td>1.5</td><td>4.70</td></tr> <tr><td>180</td><td>1000x500</td><td>3</td><td>1.5</td><td>5.25</td></tr> <tr><td>200</td><td>1000x500</td><td>2</td><td>1.0</td><td>5.85</td></tr> </tbody> </table> | Thickness ( mm ) | Length x width ( mm )   | Number of plates                    | Area ( m <sup>2</sup> ) | R <sub>D</sub> m <sup>2</sup> K / W | 20 | 1000x500 | 24 | 12.0 | 0.55 | 30 | 1000x500 | 16 | 8.0 | 0.85 | 40 | 1000x500 | 12 | 6.0 | 1.15 | 50 | 1000x500 | 10 | 5.0 | 1.45 | 60 | 1000x500 | 8 | 4.0 | 1.75 | 70 | 1000x500 | 7 | 3.5 | 2.05 | 80 | 1000x500 | 6 | 3.0 | 2.35 | 90 | 1000x500 | 5 | 2.5 | 2.60 | 100 | 1000x500 | 5 | 2.5 | 2.90 | 120 | 1000x500 | 4 | 2.0 | 3.50 | 140 | 1000x500 | 4 | 2.0 | 4.10 | 150 | 1000x500 | 3 | 1.5 | 4.40 | 160 | 1000x500 | 3 | 1.5 | 4.70 | 180 | 1000x500 | 3 | 1.5 | 5.25 | 200 | 1000x500 | 2 | 1.0 | 5.85 |
| Thickness ( mm )            | Length x width ( mm )   | Number of plates | Area ( m <sup>2</sup> ) | R <sub>D</sub> m <sup>2</sup> K / W |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 20                          | 1000x500  | 24               | 12.0                    | 0.55                                |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 30                          | 1000x500  | 16               | 8.0                     | 0.85                                |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 40                          | 1000x500  | 12               | 6.0                     | 1.15                                |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 50                          | 1000x500  | 10               | 5.0                     | 1.45                                |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 60                          | 1000x500  | 8                | 4.0                     | 1.75                                |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 70                          | 1000x500  | 7                | 3.5                     | 2.05                                |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 80                          | 1000x500  | 6                | 3.0                     | 2.35                                |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 90                          | 1000x500  | 5                | 2.5                     | 2.60                                |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 100                         | 1000x500  | 5                | 2.5                     | 2.90                                |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 120                         | 1000x500  | 4                | 2.0                     | 3.50                                |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 140                         | 1000x500  | 4                | 2.0                     | 4.10                                |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 150                         | 1000x500  | 3                | 1.5                     | 4.40                                |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 160                         | 1000x500  | 3                | 1.5                     | 4.70                                |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 180                         | 1000x500  | 3                | 1.5                     | 5.25                                |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 200                         | 1000x500  | 2                | 1.0                     | 5.85                                |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| <b>Product type:</b>        | Other thicknesses, slab formats – upon request.   |                  |                         |                                     |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| <b>Designation:</b>         | Expanded polystyrene (EPS) according to EN 13163  |                  |                         |                                     |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| <b>Designation code:</b>    | <b>EPS<sup>®</sup> 100</b> marking on the short side of the package   |                  |                         |                                     |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| <b>Technical data:</b>      | <b>EPS-EN 13163-T1-L2-W2-Sb2-P5-DS(N)2-DS(70,-)1-BS180-CS(10)100-TR200-WL(T)2-MU(30=70)</b>   |                  |                         |                                     |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
|                             | Thermal conductivity λ : ≤ 0.034 W/mK   |                  |                         |                                     |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
|                             | Compressive strength (CS) : ≥ 100 kPa   |                  |                         |                                     |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
|                             | Bending strength (BS): ≥ 180 kPa  |                  |                         |                                     |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
|                             | Tensile strength (TR): ≥ 200 kPa  |                  |                         |                                     |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
|                             | Water absorption during prolonged full immersion: ≤ 2 % by volume   |                  |                         |                                     |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
|                             | Water vapor diffusion resistance number μ: 30-70  |                  |                         |                                     |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
|                             | Reaction to fire class: E   |                  |                         |                                     |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| <b>Application temp.:</b>   | Up to 85°C.   |                  |                         |                                     |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| <b>Processing:</b>          | According to work instructions and construction safety instructions   |                  |                         |                                     |                         |                                     |    |          |    |      |      |    |          |    |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |

Austrotherm EPS<sup>®</sup> does not contain chlorofluorocarbons (CFCs), HFCs, HFCS, or HBCD .

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