

## Technical data sheet

# Austrotherm EPS<sup>®</sup> F

| <b>Description:</b>                               | Expanded polystyrene boards for insulation in construction  |                                 |                         |   |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
|---|---|---------------------------------|-------------------------|---|-------------------------|---|-----------|------------------------|-----------|---|-----------------|--|----------|-------------------------|-----|------|----|----------|----|-----|------|----|----------|----|-----|------|----|----------|---|-----|------|----|----------|---|-----|------|----|----------|---|-----|------|----|----------|---|-----|------|-----|----------|---|-----|------|-----|----------|---|-----|------|-----|----------|---|-----|------|-----|----------|---|-----|------|-----|----------|---|-----|------|-----|----------|---|-----|------|-----|----------|---|-----|------|
| <b>Application:</b>                               | For thermal insulation of external walls in a combined thermal insulation system (ETICS) according to BDS EN 13163:2012+A2:2017.  |                                 |                         |   |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| <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"> <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<sup>1</sup>/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>1.10</td></tr> <tr><td>50</td><td>1000x500</td><td>10</td><td>5.0</td><td>1.40</td></tr> <tr><td>60</td><td>1000x500</td><td>8</td><td>4.0</td><td>1.70</td></tr> <tr><td>70</td><td>1000x500</td><td>7</td><td>3.5</td><td>2.00</td></tr> <tr><td>80</td><td>1000x500</td><td>6</td><td>3.0</td><td>2.25</td></tr> <tr><td>90</td><td>1000x500</td><td>5</td><td>2.5</td><td>2.55</td></tr> <tr><td>100</td><td>1000x500</td><td>5</td><td>2.5</td><td>2.85</td></tr> <tr><td>120</td><td>1000x500</td><td>4</td><td>2.0</td><td>3.40</td></tr> <tr><td>140</td><td>1000x500</td><td>4</td><td>2.0</td><td>4.00</td></tr> <tr><td>150</td><td>1000x500</td><td>3</td><td>1.5</td><td>4.25</td></tr> <tr><td>160</td><td>1000x500</td><td>3</td><td>1.5</td><td>4.55</td></tr> <tr><td>180</td><td>1000x500</td><td>3</td><td>1.5</td><td>5.10</td></tr> <tr><td>200</td><td>1000x500</td><td>2</td><td>1.0</td><td>5.70</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 <sup>1</sup> /W | 20        | 1000x500               | 24        | 12.0  | 0.55            | 30   | 1000x500 | 16                      | 8.0 | 0.85 | 40 | 1000x500 | 12 | 6.0 | 1.10 | 50 | 1000x500 | 10 | 5.0 | 1.40 | 60 | 1000x500 | 8 | 4.0 | 1.70 | 70 | 1000x500 | 7 | 3.5 | 2.00 | 80 | 1000x500 | 6 | 3.0 | 2.25 | 90 | 1000x500 | 5 | 2.5 | 2.55 | 100 | 1000x500 | 5 | 2.5 | 2.85 | 120 | 1000x500 | 4 | 2.0 | 3.40 | 140 | 1000x500 | 4 | 2.0 | 4.00 | 150 | 1000x500 | 3 | 1.5 | 4.25 | 160 | 1000x500 | 3 | 1.5 | 4.55 | 180 | 1000x500 | 3 | 1.5 | 5.10 | 200 | 1000x500 | 2 | 1.0 | 5.70 |
| Thickness ( mm )                                  | Length x width ( mm )   | Number of plates                | Area ( m <sup>2</sup> ) | R <sub>D</sub> m <sup>2</sup> K <sup>1</sup> /W |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 20  | 1000x500  | 24                              | 12.0                    | 0.55  |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 30  | 1000x500  | 16                              | 8.0                     | 0.85  |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 40  | 1000x500  | 12                              | 6.0                     | 1.10  |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 50  | 1000x500  | 10                              | 5.0                     | 1.40  |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 60  | 1000x500  | 8                               | 4.0                     | 1.70  |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 70  | 1000x500  | 7                               | 3.5                     | 2.00  |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 80  | 1000x500  | 6                               | 3.0                     | 2.25  |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 90  | 1000x500  | 5                               | 2.5                     | 2.55  |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 100   | 1000x500  | 5                               | 2.5                     | 2.85  |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 120   | 1000x500  | 4                               | 2.0                     | 3.40  |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 140   | 1000x500  | 4                               | 2.0                     | 4.00  |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 150   | 1000x500  | 3                               | 1.5                     | 4.25  |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 160   | 1000x500  | 3                               | 1.5                     | 4.55  |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 180   | 1000x500  | 3                               | 1.5                     | 5.10  |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| 200   | 1000x500  | 2                               | 1.0                     | 5.70  |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| <b>Product type:</b>                              | Other thicknesses, slab formats – upon request.<br>Expanded polystyrene (EPS) according to Harmonized Standard EN 13163:2012+A2:2016; National Reference No. BDS EN 13163:2012+A2:2017  |                                 |                         |   |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| <b>Designation:</b>                               | <b>EPS<sup>®</sup> F</b> marking on the short side of the package   |                                 |                         |   |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| <b>Designation code:</b>                          | <b>EPS-EN 13163-T1-L2-W2-Sb2-P5-DS(N)2-DS(70,-)J1-BS130-CS(10)80-TR150-WL(T)2-MU(20÷40)</b>   |                                 |                         |   |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| <b>Technical data:</b>                            | <table border="0"> <tr> <td>T conductivity λ<sub>D</sub> :</td> <td>≤ 0.035 W/mK</td> </tr> <tr> <td>Compressive strength (CS) :</td> <td>≥ 80 kPa</td> </tr> <tr> <td>Bending strength (BS):</td> <td>≥ 130 kPa</td> </tr> <tr> <td>Tensile strength (TR):</td> <td>≥ 150 kPa</td> </tr> <tr> <td>Water absorption during prolonged full immersion:</td> <td>≤ 2 % by volume</td> </tr> <tr> <td>Water vapor diffusion resistance number μ:</td> <td>20÷40</td> </tr> <tr> <td>Reaction to fire class:</td> <td>E</td> </tr> </table>  | T conductivity λ <sub>D</sub> : | ≤ 0.035 W/mK            | Compressive strength (CS) :                     | ≥ 80 kPa                | Bending strength (BS):                          | ≥ 130 kPa | Tensile strength (TR): | ≥ 150 kPa | Water absorption during prolonged full immersion: | ≤ 2 % by volume | Water vapor diffusion resistance number μ: | 20÷40    | Reaction to fire class: | E   |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| T conductivity λ <sub>D</sub> :                   | ≤ 0.035 W/mK  |                                 |                         |   |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| Compressive strength (CS) :                       | ≥ 80 kPa  |                                 |                         |   |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| Bending strength (BS):                            | ≥ 130 kPa   |                                 |                         |   |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| Tensile strength (TR):                            | ≥ 150 kPa   |                                 |                         |   |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| Water absorption during prolonged full immersion: | ≤ 2 % by volume   |                                 |                         |   |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| Water vapor diffusion resistance number μ:        | 20÷40   |                                 |                         |   |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| Reaction to fire class:                           | E   |                                 |                         |   |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| <b>Application temp.:</b>                         | Up to 85°C.   |                                 |                         |   |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |
| <b>Processing:</b>                                | According to the operating instructions and requirements of the manufacturer of the components of the combined thermal insulation system.   |                                 |                         |   |                         |   |           |                        |           |   |                 |  |          |                         |     |      |    |          |    |     |      |    |          |    |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |    |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |     |          |   |     |      |

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

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