

Technical data sheet

Austrotherm EPS[®] F-PLUS

Description:	Graphite expanded polystyrene boards for insulation in construction with improved thermal insulation performance																																																																						
Application:	For thermal insulation of external walls in a combined thermal insulation system (WDVS) according to BDS EN 13163:2012+A2:2017. Particularly suitable for passive and low-energy buildings.																																																																						
Format:	Plates with a length of 1000 mm , a width of 500 mm , thicknesses from 20 to 400 mm Edge shape: Straight edge (GK)																																																																						
Quantity in package:	<table border="1"> <thead> <tr> <th>Thickness (mm)</th> <th>Length x width (mm)</th> <th>Number of plates</th> <th>Area (m²)</th> <th>R_D m² K /W</th> </tr> </thead> <tbody> <tr><td>20</td><td>1000x500</td><td>24</td><td>12.0</td><td>0.60</td></tr> <tr><td>30</td><td>1000x500</td><td>16</td><td>8.0</td><td>0.95</td></tr> <tr><td>50</td><td>1000x500</td><td>10</td><td>5.0</td><td>1.60</td></tr> <tr><td>60</td><td>1000x500</td><td>8</td><td>4.0</td><td>1.90</td></tr> <tr><td>70</td><td>1000x500</td><td>7</td><td>3.5</td><td>2.25</td></tr> <tr><td>80</td><td>1000x500</td><td>6</td><td>3.0</td><td>2.55</td></tr> <tr><td>100</td><td>1000x500</td><td>5</td><td>2.5</td><td>3.20</td></tr> <tr><td>120</td><td>1000x500</td><td>4</td><td>2.0</td><td>3.85</td></tr> <tr><td>140</td><td>1000x500</td><td>4</td><td>2.0</td><td>4.50</td></tr> <tr><td>150</td><td>1000x500</td><td>3</td><td>1.5</td><td>4.80</td></tr> <tr><td>160</td><td>1000x500</td><td>3</td><td>1.5</td><td>5.15</td></tr> <tr><td>180</td><td>1000x500</td><td>3</td><td>1.5</td><td>5.80</td></tr> <tr><td>200</td><td>1000x500</td><td>2</td><td>1.0</td><td>6.45</td></tr> </tbody> </table>	Thickness (mm)	Length x width (mm)	Number of plates	Area (m ²)	R _D m ² K /W	20	1000x500	24	12.0	0.60	30	1000x500	16	8.0	0.95	50	1000x500	10	5.0	1.60	60	1000x500	8	4.0	1.90	70	1000x500	7	3.5	2.25	80	1000x500	6	3.0	2.55	100	1000x500	5	2.5	3.20	120	1000x500	4	2.0	3.85	140	1000x500	4	2.0	4.50	150	1000x500	3	1.5	4.80	160	1000x500	3	1.5	5.15	180	1000x500	3	1.5	5.80	200	1000x500	2	1.0	6.45
Thickness (mm)	Length x width (mm)	Number of plates	Area (m ²)	R _D m ² K /W																																																																			
20	1000x500	24	12.0	0.60																																																																			
30	1000x500	16	8.0	0.95																																																																			
50	1000x500	10	5.0	1.60																																																																			
60	1000x500	8	4.0	1.90																																																																			
70	1000x500	7	3.5	2.25																																																																			
80	1000x500	6	3.0	2.55																																																																			
100	1000x500	5	2.5	3.20																																																																			
120	1000x500	4	2.0	3.85																																																																			
140	1000x500	4	2.0	4.50																																																																			
150	1000x500	3	1.5	4.80																																																																			
160	1000x500	3	1.5	5.15																																																																			
180	1000x500	3	1.5	5.80																																																																			
200	1000x500	2	1.0	6.45																																																																			
Product type:	Other thicknesses, slab formats – upon request.																																																																						
Designation:	Expanded polystyrene (EPS) according to EN 13163																																																																						
Designation code:	EPS[®] F+ marking on the short side of the package																																																																						
Technical data:	EPS-EN 13163-T1-L2-W2-Sb2-P5-DS(N)2-DS(70,-)1-BS130-CS(10)80-TR150-WL(T)2-MU(20÷40)																																																																						
Application temp.:	<table border="0"> <tr><td>T conductivity λ_D :</td><td>≤ 0.031 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 _D :	≤ 0.031 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 _D :	≤ 0.031 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																																																																						
Processing:	Up to 85°C. Do not expose to direct sunlight. According to the operating instructions and requirements of the manufacturer of the components of the combined thermal insulation system.																																																																						

Austrotherm EPS[®] does not contain chlorofluorocarbons (CFCs), HFCs, HFCS, or HBCD .

Last edited : 11/20 24

