

KNAUF Therm Tech Facade λ 40 (EPS S)

KNAUF Therm TECH Facade λ 40 polystyrene panels are designated by the following code according to standard EN 13163:2012+A1:2015

EPS –EN 13163-T(1)-L(2)-W(2)-S(2)-P(5)-BS100-DS(N)2-DS(70,-)1–TR 100

KNAUF Therm TECH Facade λ 40 insulation panels are manufactured according to the double polystyrene foaming method, thanks to which they have very good functional properties besides excellent insulating properties. These panels are intended for broad applications in thermal insulation of walls in buildings both old and new. Panels are manufactured in versions with or without a seam.

PURPOSE

KNAUF Therm TECH Facade λ 40 polystyrene panels are **manufactured according to European standard EN 13163:2012+A1:2015**. These panels are primarily applied for:

- **exterior thermal insulation made using the "light wet" (BSO) method**
- **exterior thermal insulation made using the "light dry" method**
- **Thermal insulation on skeleton wall surface**
- **filling of expansion joints**
- **thermal insulation in closed gap of tri-layer wall**
- **thermal insulation in ventilated gap of tri-layer wall**
- **thermal insulation of tie beams and window lintels**

GUIDELINES FOR FASTENING KNAUF Therm TECH Facade λ 40 PANELS

Before commencing installation of KNAUF Therm TECH Facade λ 40 panels, check the condition of the substrate. The substrate must be carrying, clean and degreased. Loose fragments poorly bound to the substrate are to be removed before gluing of polystyrene panels. The surface under facade panels should additionally be coated with a KNAUF Tieffengrund prime coat

KNAUF GLUE FOR POLYSTYRENE or *KNAUF FIBER-REINFORCED GLUE* is to be used to glue KNAUF Therm TECH Facade λ 40 panels.

It is recommended to use KNAUF FIBER-REINFORCED GLUE and KNAUF REINFORCING MESH to make the reinforced layer.

Shielding facade meshes are recommended during work. KNAUF Therm TECH Facade λ 40 panels

glued to the facade are to be protected against the direct action of sunlight and weather by using facade meshes on scaffolding.

KNAUF Therm TECH Facade λ 40 panels have elevated resistance to UV radiation, however long-term, direct exposure to UV radiation may cause a yellowish tarnish on a panel's surface. This tarnish must be removed before execution of the reinforcing layer.

ATTENTION

Do not use panels in direct contact with substances that act destructively on polystyrene, e.g. organic solvents (acetone, nitroglycerin, benzene, etc.)

TECHNICAL DATA

λ_D Thermal conductivity coefficient W/(mK)	≤ 0.040
Edge shape	rectangular / seamed
Dimensions	1000 x 500mm max. dimensions: 4000 x 1200mm
Self-extinguishing capacity	SELF-EXTINGUISHING
Class of reaction to fire	E
Bending strength [kPa]	BS 100 (≥ 100)
Tensile strength (force applied perpendicularly to face surfaces) [kPa]	TR 100 (≥ 100)

PACKAGING, STORAGE, TRANSPORT

KNAUF Therm TECH Facade λ 40 polystyrene panels are only delivered in the manufacturer's, i.e. KNAUF Industries, original packaging. A product's packaging contains information concerning: product name, name of manufacturer, production date, Polish Standard no. EN 13163:2012+A1:2015, code according to standard, and declared technical parameters.

KNAUF Therm TECH Facade λ 40 polystyrene panels are to be stored in a manner that protects them against mechanical damage and the weather.

Packaging		Thermal resistance	Standard format 1000*500 [mm]		Seamed panels 990*490 [mm]	
Panel thickness [mm]	Number of panels per package [pcs.]	R_D [$m^2 \cdot K/W$]	Package volume [m^3]	Covered area [m^2]	Package volume [m^3]	Covered area [m^2]
10	56	0.25	0.28	28	-	-
20	30	0.45	0.3	15	-	-
30	20	0.70	0.3	10	-	-
40	15	0.95	0.3	7.5	-	-
50	12	1.20	0.3	6	0.288	5.820
60	10	1.45	0.3	5	0.290	4.850
70	8	1.65	0.28	4	0.272	3.880
80	7	1.90	0.28	3.5	0.273	3.395
90	6	2.15	0.27	3	0.264	2.910
100	6	2.40	0.3	3	0.294	2.910
110	5	2.65	0.275	2.5	0.265	2.425
120	5	2.90	0.3	2.5	0.290	2.425
130	4	3.15	0.26	2	0.252	1.940
140	4	3.35	0.28	2	0.272	1.940
150	4	3.60	0.3	2	0.292	1.940
160	3	3.85	0.24	1.5	0.234	1.455
170	3	4.10	0.255	1.5	0.246	1.455
180	3	4.35	0.27	1.5	0.261	1.455
190	3	4.60	0.285	1.5	0.276	1.455
200	3	4.85	0.3	1.5	0.291	1.455
210	2	5.05	0.21	1	0.204	0.970
220	2	5.30	0.22	1	0.214	0.970
230	2	5.55	0.23	1	0.224	0.970
240	2	5.80	0.24	1	0.232	0.970
250	2	6.05	0.25	1	0.242	0.970
260	2	6.30	0.26	1	0.252	0.970
270	2	6.50	0.27	1	0.262	0.970
280	2	6.75	0.28	1	0.272	0.970
290	2	7.00	0.29	1	0.282	0.970
300	2	7.25	0.3	1	0.292	0.970