



DESCRIPTION:

Isopor xps 300-L is a thermal insulation board made of extruded polystyrene, having a smooth surface and edges in the shape of letter "L" to prevent the formation of thermal bridges.

APPLICATION:

Thermal insulation gives unconditional protection in humid environment or under extremely heavy mechanical load.

- Thermal protection of classic flat roofs
- Thermal protection in the systems of inverted flat roofs
- Thermal protection in the systems of green roofs
- Transformation of existent flat roofs under the system of inverted roofs
- Thermal insulation and hydro-membrane protection of cellar walls
- Thermal protection of swimming pools
- Thermal protection of shop, warehouse and industrial floorings
- Thermal protection of base plates

QUALITY:

Products are tested in accordance with:

- EN 13164,
- EN 13501-1,
- EN ISO 11925-2: 2002

At the following notified laboratories:

- ZAG Ljubljana
- FIW München
- MPA BAU Hannover
- DIBt Berlin



ENVIRONMENT PROTECTION:

- Products Isopor xps are produced with environmentally friendly blowing agents
- 100% recyclable



TECHNICAL CHARACTERISTICS:

XPS - EN 13164 - T1 - CS(10Y)300-CC(2/1,5/50)125 - DS(70,90) - DLT(2)5 - WL(T)0,7 - WD(V)* - FTCD1 - MU100

thickness [mm]	width [mm]	length [mm]	boards in a package [pieces]	quantity in a package [m ²]	thermal conductivity λ _D [W/mK]	thermal resistance R _D [m ² K/W]	*long-term water absorption by diffusion WD(V)	declared compressive strength at 10% deformation [kPa]
30	600	1250	14	10,50	0,033	0,90	3	300
40	600	1250	10	7,50	0,034	1,15	3	300
50	600	1250	8	6,00	0,034	1,45	3	300
60	600	1250	7	5,25	0,035	1,70	2	300
80	600	1250	5	3,75	0,035	2,25	2	300
100	600	1250	4	3,00	0,035	2,85	1	300
120	600	1250	3	2,25	0,036	3,30	1	300
140	600	1250	3	2,25	0,037	3,75	1	300
160	600	1250	2	1,50	0,039	4,10	1	300
180	600	1250	2	1,50	0,039	4,60	1	300
200	600	1250	2	1,50	0,040	5,00	1	300

- Modul of elasticity: **20 MPa**
- Fire classification: **E**
- Temperature of use: from **-50°C** to **+75°C**
- Coefficient of linear thermal expansion: **0,075 mm/mK**

Approvals:

- Nr. Z-23.15-1695
- Nr. Z-23.31-1805
- Nr. Z-23.33-1806
- Nr. Z-23.34-1807

DESIGNATION CODE under EN 13164:

- XPS - abbreviation for EXTRUDED POLYSTYRENE
- EN 13164 - number of the European standard for extruded polystyrene thermal insulation material
- T1 - declared class for thickness tolerance
- CS(10Y) - declared level for compressive strength at 10% deformation
- TR1 - declared level for tensile strength perpendicularly to the surface
- DS(TH) - declared value for dimensional stability under specified temperature and humidity
- DLT(2)5 - declared level of deformation under specified compressive load and temperature conditions
- WL(T)1 - declared level for long-term water absorption by total immersion
- WD(V)1 - declared level for water absorption by diffusion
- MUI - declared level for water vapor diffusion resistance factor
- FT1 - declared level for freeze thaw resistance
- CC (1/1,5/50) - Compressive creep over 50 years at < 2% deformation