

## TECHNICAL SHEET 23.01.01-26-ENG

**JUBIZOL Strong S0- GRAPHITE****1. Product description**

Thermal insulation boards made of expanded polystyrene; with added **GRAPHITE** for improved thermal insulation, manufactured in a mould, without a switch (CFC free).

**2. Technical data**

Board format: 1000 x 500 mm  
Thickness: 20 mm to 250 mm

**3. Resistance**

Temperature resistance: 70 °C long-term

**4. Conformity**

SIST EN 13163

**5. Quality**

Product quality characteristics are determined by the European standards. JUB ensures the achieving of the declared or set quality level by the ISO 9001 system for total quality management and control, which has been implemented at JUB for many years and which comprises daily quality checks in our own laboratories. During the manufacturing process, JUB strictly complies with the European standards for the protection of the environment and for ensuring security and health at work, which has been confirmed by the ISO 14001 and OHSAS 18001 certificates.

**6. Technical characteristics**

**CE- technical code** EPS-EN 13163 -L2-W2-T1-S2-P5-DS(N)2-DS(70,-)1-BS150-TR150-CS(10)100-WL(T)2

Characteristic	Code	Description/data	Unit	Declared	Tolerance	Standard
Length	I	1000	mm	L2	±2	EN 822
Width	W	500	mm	W2	±2	EN 822
Thickness	T	20-250	mm	T1	±1	EN 823
Perpendicularity	S	1000/500	mm	S2	±2	EN 824
Evenness	P	1000/500	mm	P5	±5	EN 825
Dimensional stability	DS	1000/500	%	DS(N)2	±0.2	EN 1603
Dim. stability at specific temperature	DS(70)	1000/500	%	DS(70,-)1	1	EN 1604
Pressure strength at 10 % def.	CS	-	kPa	CS(10)100	≥100	EN 826
Flexural strength	BS	-	kPa	BS150	≥150	EN 12089
Tensile strength perpendicular to the surface	TR	-	kPa	TR150	≥150	EN 1607
Diffusion resistance coefficient	μ	20 - 50	-	-	-	EN 12086
Thermal conductivity coefficient	λ <sub>D</sub>	0,032	W/mK	0.032	-	EN 12667

Reaction to fire (CE)	-	Euroclass E	-	Euroclass E	-	EN 13501-1
Water absorption	WL(T)	-	%	WL(T)2	≤2	EN 12087
Density	ρ <sub>a</sub>	20	kg/m <sup>3</sup>	20	-	EN 1602

#### Declared thermal resistance (Lambda/thickness ratio)

Characteristic	Code	Description/data											
<b>Board thickness (mm)</b>	<b>d</b>	<b>10</b>	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>	<b>100</b>	<b>110</b>	<b>120</b>
Thermal resistance declared (m <sup>2</sup> K/W)	R <sub>D</sub>	-	0.60	0.90	1.25	1.55	1.85	2.15	2.50	2.80	3.10	3.40	3.75
Lambda/thickness ratio (W/m <sup>2</sup> K)	λ <sub>D</sub> /d	-	1.60	1.07	0.80	0.64	0.53	0.46	0.40	0.36	0.32	0.29	0.27
<b>Board thickness (mm)</b>	<b>d</b>	<b>130</b>	<b>140</b>	<b>150</b>	<b>160</b>	<b>180</b>	<b>200</b>	<b>220</b>	<b>240</b>	<b>250</b>	<b>260</b>	<b>280</b>	<b>300</b>
Thermal resistance declared	R <sub>D</sub>	4.05	4.35	4.65	5.00	5.60	6.25	6.85	7.50	7.80	-	-	-
Lambda/thickness ratio (W/m <sup>2</sup> K)	λ <sub>D</sub> /d	0.25	0.23	0.21	0.20	0.18	0.16	0.15	0.13	0.13	-	-	-

## 7. Areas of application

- Strong GRAPHITE boards manufactured in a mould have very low water absorption due to a closed structure of expanded beads. They perform the function of mechanical protection of hydro insulation and that of thermal protection of a building;
- Suitable for manufacturing of façade plinth;
- For new constructions and for renovations.

## 8. Application

Thermal insulation boards are applied in line with the instructions provided by the manufacturer of façade systems.

## 9. Packaging

Thermal insulation boards are in packages of the size 0.25 m<sup>3</sup>, wrapped up in non-transparent PE-foil. Each package contains a declaration sheet in line with the SIST EN 13172 standard.

## 10. Storage

Store in covered areas, away from sources of heat and fire; do not expose to UV rays; prevent contact with incompatible materials/chemicals.

## 11. Waste management

The manufacturer ensures that all of its packaging is included into the waste management system (Official Gazette of the RS, No. 84/06 with all changes and amendments).

## 12. Certificate

The Slovenian national building and civil engineering institute, Dimičeva12, 1000 Ljubljana

Declaration of Performance in line with the European directive on construction products CPR and in line with the European standard SIST EN 13163:2013.

Denomination and date of publishing: **TRC-002/15-mod**, 7 January 2015

**JUB kemična industrija d.o.o.**

Dol pri Ljubljani 28, SI-1262 Dol pri Ljubljani, Slovenia

**T: 080 15 56, 01 5884 218 , 01 5884 383**

**F: (01) 588 42 50**

**E: info@eurotherm-izolacija.si**

[www.eurotherm-izolacija.si](http://www.eurotherm-izolacija.si)



The product is made by the holder of ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007 certificates.