Declaration of Performance

No: 5/C/IZOL/2014/EN

1. Unique identification code of the article:
   - **Product's name: Group of Insulation plates IZOROL-L EPS 100:**
     a. **Insulation plates IZOROL-L EPS 100**
     b. **Insulation plates IZOROL-L duo EPS 100**
     c. **Insulation plates IZOROL-L pack EPS 100**
     d. **Insulation plates IZOROL-L roll EPS 100**
   - **Code: EPS 100-038**
   - **Type: EPS-EN 13163-T(2)-L(3)-W(3)-S(5)-P(10)-BS150-CS(10)100-DS(N)5-DS(70,-)2-DLT(1)5**

2. Number of type, batch, serial number or any other identification of construction product, required pursuant to art. 11.4:
   Batch number (manufacturing date/ batch number/ operator's number)

3. Article purpose in accordance with harmonized technical specification:
   Thermal insulation in water under floor heating systems

4. Name, registered trade name or registered trade mark and contact address of the manufacturer pursuant to art.11.5:

Kotar Sp.j. B. & S. Jaworscy
PL – 56-100 Wołów
ul. Kościuszki 33

5. If applicable, name and contact details of the authorized representative pursuant to art. 12.2:,

6. System or systems of assessment and verification of constancy of performance of the construction as described in Appendix V:
   System 3

7. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

- **Laboratorium Łączników i Wyrobów Budowlanych LOK Instytutu Techniki Budowlanej , Accreditation – AB 023**
- **Laboratorium Badań Ogniowych Instytutu Techniki Budowlanej, Accreditation – AB 023**
- **Centralny Ośrodek Badawczo – Rozwojowy Przemysłu Izolacji Budowlanej, Accreditation – AB 008**
- **Güteschutzgemeinschaft Hartschaum e.V. – Notification no. 0919**

(name and identification number of identified body – if applicable)

Performed initial tests type in system: **3**

(description of third party's tasks, specified in Appendix V)

and issued **Test reports**:

- Report no. 161/09/M-6/$\lambda_{HFM\,1}$: Thermal properties of construction materials and products – measuring thermal resistance using heat flux – products of high and medium thermal resistance in accordance with PN-EN 12667:2002

- Report no.161/09/396/M-6: compression stress tests at 10% relative strain in accordance with PN-EN 826:1998 and bending strength in accordance with PN-EN 12089:2000
- Report no. LOK-00662/C/10/2: Dimension stability in constant laboratory conditions in accordance with PN-EN 1603:1999 + PN-EN 1603:1999/A1:2006; dimension stability in specified thermal and humidity conditions in accordance with PN-EN 1604:1999 + PN-EN 1604:1999/A1:2006; 20 kPa compression load strain at 80°C within 48 hours in accordance with PN-EN 1605:1999 + PN-EN 1605:1999/A1:2006
- Report no.164/10/363/M-1:Shape and dimension tolerance classes in accordance with: PN-EN 822:1998; PN-EN 823:1998; PN-EN 824:1998; PN-EN 825:1998
- Report Nr LPK-0662.2/23-12/10: Reaction to fire performance – fire resistance at direct flame exposure

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(certificate of functional properties stability, certificate of internal quality control, test/ calculation reports – depending on individual case)

8. In case of declaration of performance for a construction product already certified with European Assessment Certificate:

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(name and number of the notified body – if applicable)

issued by .....

(reference numbers of European assessment certificate)

pursuant to .....

(reference number of a European assessment document)

9. Declared parameters

Properties	Requirements	Class acc. Harmonized technical specification	Harmonized technical specification
Reaction to fire class	E	E	
Thermal conductivity	At most 0,038 W/mK	λ_D – 0,038 W/mK	
Compressive stress at 10% deformation	At least 100 kPa	CS(10)100	
Bending strength	At least 150 kPa	BS150	
Dimension stability under normal laboratory conditions	± 0,5%	DS(N)5	
Dimension stability under specified temperature and humidity conditions	Requirements – 2% under special conditions: 48 h and 70°C	DS(70,-)2	
Deformation under specified compressive load and temperature conditions	At the most 5% In special conditions: • Load – 20 kPa • Temperature – (80±1)°C • Time (48±1)h	DLT(1)5	
Tensile strength perpendicular to faces		NPD	
Compressive creep		NPD	
Long-term water absorption by immersion		NPD	
Long-term water absorption by diffusion		NPD	PN-EN 13163:2013-05

Freeze-thaw resistance		NPD	
Water vapour transmission		NPD	
Release of dangerous substances		NPD	
Long-term thickness reduction		NPD	
Dynamic stiffness		NPD	
Compressibility		NPD	
Length	± 0,6% or ± 3mm	L(3)	
Width	± 0,6% or ± 3mm	W(3)	
Squareness	± 5mm/1000mm	S(5)	
Flatness	10 mm	P(10)	
Thickness	± 2mm	T(2)	
Thermal resistance: ➢ Thickness 20mm ➢ Thickness 25mm ➢ Thickness 30mm ➢ Thickness 35mm ➢ Thickness 40mm ➢ Thickness 50mm	 0,50 m²K/W 0,65 m²K/W 0,75 m²K/W 0,90 m²K/W 1,05 m²K/W 1,30 m²K/W		

10. Product performance specified in Point 1.2 are in accordance with declared performance stated in Point. 9

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4

Signed on behalf of the manufacturer by:

Marcin Jaworski co-owner

(name and position)

Wołów, 16.06.2014

(place and date)

KOTAR SPÓŁKA JAWNA B.& S. JAWORSCY
Marcin Jaworski
WSPÓŁWŁAŚCICIEL

(signature)