

## 1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

**Commercial product name:** BK-Dur XPS

**Information on the manufacturer:**

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## 2. DESCRIPTION AND SCOPE OF APPLICATION

BK-Dur, waffle is a thermal insulation board made of extruded polystyrene foam, ribbed surface structure, resistant to water (moisture) and high pressure loads. It is intended for insulation of new buildings and renovation of existing buildings. Hard-pressed polystyrene foam boards with a closed-cell structure allow the building to "breathe". This is achieved by a special mixture and composition of cells in combination with the treated surface. It is used for insulation of foundations, insulation of floors with high pressure load, perimeter insulation, insulation of flat roofs.

## 3. COMPOSITION

**Chemical composition:** Extruded polystyrene

## 4. TECHNICAL CHARACTERISTICS

**Boards dimensions:** Boards are 1250 x 600 mm thick from 25 mm to 120 mm, with straight edges or folded edges.

**Packing of boards:** The boards are packed in packages, volume from 0.27m<sup>3</sup> to 0,30m<sup>3</sup>, wrapped in opaque PE foil.

**Application temperature:** up to 75 °C

**Product label key:** for thickness 20-120 mm:

XPS-EN 13164 :2012+A1 :2015 -T1-CS(10/Y)300- DLT(2)5-CC(2/1,5/50)130-DS(TH)-WL(T)1,5-FTCD1

| Characteristic  | Label          | Unit  | Declared          | Tolerance | Harmonized technical specification |
|---|----------------|-------|-------------------|-----------|------------------------------------|
| Dimensional tolerance for thickness <50 mm  | T              | mm    | T1                | -2 / +2   | EN 823                             |
| Dimensional tolerance for thickness 50 mm to 120 mm                               | T              | mm    | T1                | -2 / +3   | EN 823                             |
| Compressive strength  | CS(10/Y)       | kPa   | CS(10/Y)300       | ≥300      | EN 826                             |
| Water absorption, 7 days, complete immersion, method 2A                           | WL(T)          | %     | WL(T)1,5          | ≤1,5      | EN 12087                           |
| Allowable compressive stress for permanent load of 50 years with deformation <2%  | CC (2/1,5/50)  | kPa   | CC (2/1,5/50)130  | 130       | EN 1606                            |
| Behavior at a load of 40kPa and a temperature of 70°C                             | DLT            | %     | DLT (2)5          | <5        | EN 1605                            |
| Resistance to cyclic thawing-freezing after long-term diffuse absorption of water | FTCDi          |       | FTCD1             | 1         | EN ISO 12091                       |
| Classification of reaction to fire  |                |       | Klasa E           |           | EN 13501-1                         |
| Heat resistance   | Rd             | m2K/W | Videti u tabeli 2 |           | EN 12667                           |
| Thermal conductivity coefficient  | λ <sub>d</sub> | W/mK  | see in table 2    | /         | EN 12667                           |

| Plate thickness, mm         | d                | 20    | 30    | 40    | 50    | 60    | 70    | 80    | 90    | 100   | 110   | 120   |
|-----------------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lambda                      |                  | 0,031 | 0,031 | 0,031 | 0,031 | 0,031 | 0,031 | 0,031 | 0,031 | 0,031 | 0,031 | 0,031 |
| Lambda / thickness W / m2K  | λ <sub>D/d</sub> | 1,55  | 1,03  | 0,78  | 0,62  | 0,52  | 0,44  | 0,39  | 0,34  | 0,31  | 0,28  | 0,26  |
| Thermal resistance, m2K / W | R <sub>D</sub>   | 0,65  | 0,95  | 1,25  | 1,60  | 1,90  | 2,25  | 2,55  | 2,90  | 3,20  | 3,55  | 3,85  |

## 5. OTHER CHARACTERISTICS

**Appearance:** blue, compact material.

**Odor:** The appearance of a slightly unpleasant odor only when cutting with heated objects. Smell and minimal fumes and then harmless.

## 6. INSTALATION

The product should be applied up to the recommended temperature. When exposed to a higher temperature than recommended, which is a maximum of 75C, the boards can soften, permanently deform, change dimensions, melt or become brittle and lose mechanical properties.

The product can only be glued with adhesives based on cement, bitumen or plastic materials. The adhesive must not contain chemically soluble agents, which can react with the plates in a way that softens them, causes shrinkage and even dissolution, which can result in the loss of basic properties.

The product is installed in accordance with the general rules for performing thermal insulation works in construction.

## 7. HANDLING AND STORAGE

No special precautions are required for use. The product is not classified as hazardous for transport. Take care not to damage the plates.

The product, from the aspect of the influence of atmospheric precipitation, can also be stored outdoors because it does not absorb moisture, but it should be protected from the strong sun, preferably in the original packaging.

Slabs should not be exposed to flammable sources. Exposure to strong sunlight, after some time, can cause the surface layer to turn into dust.

## 8. PERSONAL PROTECTION

Respiratory protection: Not required

Hand and body protection: Preventive use of protective gloves is recommended in case of repeated skin contact.

Eye protection: Does not irritate the eyes even if the part happens to get into the eye. Goggles can be used preventively.

Fire protection: Dry extinguishing media, light foam and water mist are recommended

## 9. ECOTOXICOLOGICAL INFORMATION

Based on experience and existing information, no adverse effects on human health or the environment are known when used properly.

## 10. DISPOSAL METHOD

In accordance with local/regional/European/national regulations.

## 11. OTHER INFORMATION

If the contractor notices an aesthetic or application deficiency while using the material, he is obliged to cease the works and notify the manufacturer thereof, who shall take the remarks into consideration in the shortest possible time frame. Remarks sent to the manufacturer after incorporation of a significant portion or the entire quantity of the material, cannot be the subject of complaint.

## 12. NOTE

Banja Komerc Bekament DOO performs product quality checks using its own laboratories. It also regularly tests its products in certified laboratories. The Data Sheet is the product of our knowledge and previous practical experience and it should serve to all users as a recommendation in order to achieve the best possible results. If weather and other conditions are different than those described in our instructions, our instructions need to be taken as general guidelines, without an installation warranty.

Banja Komerc Bekament DOO assumes no liability for damages resulting from the improper use or incorrect selection of product, as well as for poorly executed works. It is assumed that the contractor has mastered the techniques of incorporation and use of various products.

Matters written herein bind us in no way.

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