

## DECLARATION OF PERFORMANCE No. 46/T/2018

1. Unique identification code of the product-type:  
**TERMALICA TN 2,5/400 U-block**
2. Intended use or uses:  
**Autoclaved aerated concrete units, intended for use in masonry walls and pillars.**
3. Manufacturer:  
**BRUK-BET Sp. z o.o.  
Niecieza 199, 33-240 Żabno**
4. System of assessment and verification of constancy of performance:  
**System 2+**
5. Harmonized standard:  
**EN 771-4:2011+ A1:2015 – Specification for masonry units.  
Part 4: Autoclaved aerated concrete masonry units.**

Notified body or bodies:

**Technicky A Skusobny Ustav Stavebny n.o.  
Studena 3, 821 04 Bratislava, Slovak Republic  
Notified body - No. 1301**

6. Declared performance:

| Essential properties   |   |
|--|---|
| Dimensions and dimensional deviations  | Length (mm): 599<br>Width (mm): 300, 365, 400, 480<br>Height (mm): 249<br>Deviations: TLMB category - length $\pm 1.5$ mm<br>- width $\pm 1.5$ mm<br>- height $\pm 1.0$ mm<br><br>Flatness and parallelism of supporting surface up to 1.0 mm |
| Shape and structure  | The rectangular element, for rims, vertical and horizontal walls reinforced concrete fillings, reinforcements, with U-shaped cross section, intended for reinforcement, with smooth face surfaces.  |
| Average declared value of compressive strength                                   | 2.5 N/mm <sup>2</sup> (parallel to supporting surface)  |
| Contractual value of expansion/contraction due to humidity - $\epsilon_{cs,ref}$ | 0.110 mm/m  |
| Shear strength of joint made of thin joint mortar                                | 0.30 N/mm <sup>2</sup> (value determined acc. to EN 998-2)  |
| Declared characteristic bending strength of joint made of thin joint mortar      | - in a plane that is parallel to supporting joints ( $f_{tk1}$ ) – 0.087 N/mm <sup>2</sup><br>- in a plane that is perpendicular to supporting joints ( $f_{tk2}$ ) – 0.062 N/mm <sup>2</sup><br>(values determined acc. to EN 1996-1-1)      |
| Reaction to fire   | Euroclass A1  |
| Declared water absorption coefficient  | Do not use unprotected  |
| Declared coefficient of water vapour diffusion                                   | 5/10 (value determined based on EN 1745)  |
| Declared value of gross density  | 375 $\pm$ 20 kg/m <sup>3</sup>  |
| Declared thermal conductivity coefficient $\lambda_{D10, dry matter}$ ,          | 0.076 W/mK (value determined based on EN 1745)  |
| Durability   | Frost-resistant product after 15 cycles of freezing and thawing   |
| Hazardous substances   | None  |

Performance of the aforementioned product is compliant with the declared performance.

This declaration of performance was issued according to Regulation (EU) No. 305/2011 under the sole responsibility of the manufacturer specified above.

Signed on behalf of the manufacturer by: Jerzy Kras - Factory Production Control Proxy

Niecieza, 20<sup>th</sup> January 2018

PEŁNOMOCNIK ds. JAKOŚCI  
  
Jerzy Kras

(date and place of issue)

(signature)