

## DECLARATION OF PERFORMANCE No. 28/T/2017

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 Width (mm): 300, 365, 400, 480 Height (mm): 249 Deviations: TLMB category - length $\pm 1.5$ mm - width $\pm 1.5$ mm - height $\pm 1.0$ mm  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 - $\epsilon_{cs,ref}$	0.05 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> - in a plane that is perpendicular to supporting joints ( $f_{tk2}$ ) – 0.062 N/mm <sup>2</sup> (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 $\lambda_{D10, dry matter}$	0.096 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: Adam Liro - Factory Production Control Proxy

Niecieza, 8<sup>th</sup> February 2017

(date and place of issue)

PEŁNOMOCNIK ds. ZAKŁADOWEJ  
KONTROLI PRODUKCJI

*mgr inż. Adam Liro*

(signature)