

## DECLARATION OF PERFORMANCE No. 12/TT/2016

1. Unique identification code of the product-type:  
**TERMALICA TN 4,0/600 U-block**
2. Grade, type or batch allowing identification of the product:  
**Dimensions, design features and identification data are placed on the product label.**
3. Intended use or uses:  
**Autoclaved aerated concrete masonry units, Category I, intended for manual covering of window and door openings, for making ring beams, vertical and horizontal reinforced concrete beams and reinforcement of walls.**
4. Manufacturer:  
**BRUK-BET Sp. z o.o.  
Nieciecza 199, 33-240 Żabno  
Production plant: Tarnów, ul. Mroźna 18**
5. System of assessment and verification of constancy of performance:  
**System 2+**
6. Harmonized standard:  
**EN 771-4:2011 – 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**

7. Declared performance:

Essential properties	
Dimensions and dimensional deviations	Length (mm): 590, 599 Width (mm): 200, 240 Height (mm): 239, 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	Cubical element, with U-shaped cross section, intended for reinforcement, with smooth face surfaces.
Average declared value of compressive strength	4.0 N/mm <sup>2</sup> (parallel to supporting surface)
Declared value of expansion/contraction due to humidity	$\leq$ 0.2 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 ( $f_{xk1}$ ) – 0.14 N/mm <sup>2</sup> - in a plane that is perpendicular to supporting joints ( $f_{xk2}$ ) – 0.10 N/mm <sup>2</sup> (values determined acc. to EN 1996-1-1)
Reaction to fire	Euroclass A1

Essential properties	
Declared water absorption coefficient	- after 10 minutes – 56 g/dm <sup>2</sup> - after 30 minutes – 82 g/dm <sup>2</sup> - after 90 minutes – 129 g/dm <sup>2</sup>
Declared coefficient of water vapour diffusion	5/10 (value determined based on EN 1745)
Declared value of gross density	575±20 kg/m <sup>3</sup>
Declared thermal conductivity coefficient $\lambda_{D10}$ , dry matter, S2	0.14 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

.....  
(name and position)

Nieciecza, 10<sup>th</sup> June 2016

.....  
(date and place of issue)

PEŁNOMOCNIK ds. ZAKŁADOWEJ  
KONTROLI PRODUKCJI

*AL*  
mgr inż. Adam Liro

.....  
(signature)