

DECLARATION OF PERFORMANCE No. 45/T/2018

1. Unique identification code of the product-type:
TERMALICA T 5,0/700 block
2. Intended use or uses:
Autoclaved aerated concrete units, intended for use in masonry walls, pillars and partition walls.
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): 100,120, 200, 240 Height (mm): 249 Deviations: TLMB category - length ± 1.5 mm - width ± 1.5 mm - height ± 1.0 mm Flatness and parallelism of supporting surface up to 1.0 mm |
| Shape and structure | Cuboid with possible face surfaces: - smooth, - with tongue and groove - designation Z - with grips - designation U - with tongue and groove and with grips - designation UZ |
| Average declared value of compressive strength | 5.0 N/mm ² (parallel to supporting surface) |
| Contractual value of expansion/contraction due to humidity - $\epsilon_{cs,ref}$ | 0.22 mm/m |
| Shear strength of joint made of thin joint mortar | 0.30 N/mm ² (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}) – 0.175 N/mm ² - in a plane that is perpendicular to supporting joints (f_{xk2}) – 0.125 N/mm ² (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 | 675 \pm 20 kg/m ³ |
| Declared thermal conductivity coefficient $\lambda_{D10, dry matter}$, | 0.17 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

PEŁNOMOCNIK ds. JAKOŚCI

Jerzy Kras