# DECLARATION OF PERFORMANCE
# no. 63/BKTA/2019

1. Unique identification code of the product-type:
   **TERMALICA block 5.0/700**
2. Intended use or uses:
   **Autoclaved aerated concrete elements intended for use in masonry walls, columns and partition walls.**
3. Manufacturer:
   **BRUK-BET Sp. z o.o.**
   **Nieciecza 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**
   Notified body or bodies:
   **Notified body - No. 1301**
6. Declared performance:

| Essential properties | Performance | |
|---|---|---|
| Dimensions and dimensional deviations | Length (mm): 599<br>Width (mm): 100,120, 200,240<br>Height (mm): 249<br>Deviations: TLMB category - length ± 1.5 mm<br>- width ± 1.5 mm<br>- height ± 1.0 mm<br>Flatness and parallelism of supporting surface up to 1.0 mm | |
| Shape and structure | Cuboid with possible face surfaces:<br>- smooth,<br>- tongue and groove - designation Z<br>- with grips - designation U<br>- with tongue and groove and with grips - designation UZ | |
| Compressive strength | Category I | |
| | Average compressive strength 5.0 N/mm$^2$ | |
| | Type of sample - Cut cube | |
| | Direction of loading - perpendicularly to supporting surface | |
| Dimensional stability | Value of expansion/shrinkage under moisture in mm/m ≤0.2 mm/m | |
| Joint strength | Shear strength of wall joint made of thin joint mortar, declared value (determined acc. to EN 998-2 ) 0.30 N/mm$^2$ | |
| | Bending strength of wall joint in a plane parallel to bed joints ($f_{xk1}$) $f_m$<5MPa – 0.05 N/mm$^2$ (values determined acc. to EN 1996-1-1) | |
| | Bending strength of wall joint in a plane perpendicular to bed joints ($f_{xk2}$) $f_m$<5MPa – 0.2 N/mm$^2$ (values determined acc. to EN 1996-1-1) | |
| Reaction to fire | Euroclass A1 | |
| Water vapour permeability | 5/10 (value determined based on EN 1745) | |
| Water absorption | NPD | |
| Direct airborne sound insulation | Gross dry density and category of deviations kg/m$^3$ | 675±25 kg/m$^3$ |
| | Shape and structure | as above |
| | Dimensions and deviations | as above |
| Thermal resistance | Thermal properties; average declared value, thermal conductivity coefficient | 0.18 W/(m K) (value determined based on EN 1745) |
| Resistance to freezing/thawing | Durability | Frost-resistant product after 15 cycles |
| Hazardous substances | None | |

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

This declaration of performance was issued pursuant to Regulation (EU) no. 305/2011 under the sole responsibility of the aforementioned manufacturer.

Signed on behalf of the manufacturer by: Jerzy Kras, Quality Representative

PEŁNOMOCNIK ds. JAKOŚCI
Kras Jerzy

Nieciecza, 01.06.2019

(date and place of issue)

Jerzy Kras
(signature)