

**NORTHERN GREECE CERAMICS S.A.**

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EST. 1935

**KOTHALI**

NORTHERN GREECE CERAMICS

**13****EN 771-1:2011+A1:2015****ORTHOBLOCK PLUS K 300****Vertically Perforated Clay Masonry unit P, for use in protected masonry, Category II and voids filled with expanded polystyrene (EPS) containing graphite.**

|   |                        |                   |
|---|------------------------|-------------------|
| DOP Reference No  | PK300-24               |                   |
| Length  | 250                    | mm                |
| Width   | 300                    | mm                |
| Height  | 240                    | mm                |
| Dimensional tolerance   | T1                     |                   |
| Range category  | R1                     |                   |
| Flatness of bed faces   | ≤1                     | mm                |
| Plane parallelism of bed faces  | ≤1                     | mm                |
| Configuration   | As in attached drawing |                   |
| Gross dry density   | 800                    | kg/m <sup>3</sup> |
| Net dry density   | 1832                   | kg/m <sup>3</sup> |
| Density tolerance   | D1:10                  | %                 |
| Mean compressive strength (perpendicular to bed face)                           | 10                     | N/mm <sup>2</sup> |
| Category  | II                     |                   |
| Bond strength<br>(Tabulated value acc.to EN 998-2 Annex C)                      | 0,30                   | N/mm <sup>2</sup> |
| Thermal conductivity $\lambda_{10,dry,unit}$ (P3)                               | 0,0893                 | W/mK              |
| Thermal conductivity $\lambda_{equ,design,masonry}$<br>(with 3mm mortar joints) | 0,1086                 | W/mK              |
| Water vapour permeability $\mu$   | 5/10                   |                   |
| Durability against freeze/thaw  | F0                     |                   |
| Water absorption  | NPD                    |                   |
| Active soluble salt content   | S0                     |                   |
| Reaction to fire : Euroclass  | E                      |                   |
| Dangerous substances  | NPD                    |                   |

**Particular conditions applicable to the use:**

Cutting with power tools may generate dust. People undertaking works of this nature are advised to wear suitable personal protective equipment (PPE)



# Declaration of Performance

No:PK300-24

Unique identification code of the product-type : ORTHOBLOCK PLUS K300

Intended Use/es: Protected masonry structures

Manufacturer: **NORTHERN GREECE CERAMICS S.A.**

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System/s AVCP : System 4

Harmonised standard: EN 771-1:2011+A1:2015

Declared performance/s:

| Essential characteristics   | Performance |                   | Harmonized technical specification |
|---|-------------|-------------------|------------------------------------|
| Length  | 250         | mm                | EN 772-16                          |
| Width   | 300         | mm                | EN 772-16                          |
| Height  | 240         | mm                | EN 772-16                          |
| Dimensional tolerance   | T1          |                   | EN 771-1                           |
| Range category  | R1          |                   | EN 771-1                           |
| Flatness of bed faces   | ≤1          | mm                | EN 772-20                          |
| Plane parallelism of bed faces  | ≤1          | mm                | EN 772-16                          |
| Gross Dry density   | 800         | kg/m <sup>3</sup> | EN 772-13                          |
| Net dry density   | 1832        | kg/m <sup>3</sup> | EN 772-13                          |
| Density tolerance   | D1:10       | %                 | EN 771-1                           |
| Mean compressive strength (perpendicular to bed face)                           | 10          | N/mm <sup>2</sup> | EN 772-1                           |
| Category  | II          |                   | EN 771-1                           |
| Bond strength<br>(Tabulated value according to EN 998-2 Annex C)                | 0,30        | N/mm <sup>2</sup> | EN 998-2                           |
| Thermal conductivity $\lambda_{10,dry,unit}$ (P3)                               | 0,0893      | W/mK              | EN 1745                            |
| Thermal conductivity $\lambda_{equ,design,masonry}$<br>(with 3mm mortar joints) | 0,1086      | W/mK              | EN 1745                            |
| Water vapour permeability $\mu$   | 5/10        |                   | EN 1745                            |
| Durability against freeze/thaw  | F0          |                   | EN 771-1                           |
| Water absorption  | NPD         |                   | EN 771-1                           |
| Active soluble salt content - category  | S0          |                   | EN 771-1                           |
| Reaction to fire - Euroclass  | E           |                   | EN 771-1                           |
| Dangerous substances  | NPD         |                   | EN 771-1                           |

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Ilias Tragazikis – Quality Control Supervisor

Nea Santa 14/08/2024

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