

# Declaration of performance

## 48000647



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|---|--|
| Unique identification code of the product-type: | <b>Ytong Forte PP2,5/0,4 S+GT 24 cm</b>  |
| Intended use/es:                                | In walls, columns and partitions   |
| Manufacturer:                                   | Xella Polska Sp. z o.o.<br>ul.17 stycznia 48, 02-146 Warszawa  |
| Authorised representative:                      | Xella Technologie- und Forschungsgesellschaft mbH<br>Hohes Steinfeld 1, 14797 Kloster-Lehnin, Niemcy |
| System/s of AVCP:                               | System 2+  |
| Harmonised standard:                            | EN 771-4:2011  |
| Notified body/ies:                              | OŚrodek Certyfikacji Instytutu Mechanizacji Budownictwa i Górnictwa Skalnego, notified body 1454     |

### Declared performance

|  |  |                    |      |                  |
|--|--|--------------------|------|------------------|
| Dimensions   |  |                    |      |                  |
| length, mm   | 599  |                    |      |                  |
| width, mm  | 240  |                    |      |                  |
| height, mm   | 199  |                    |      |                  |
| category   | TLMB   |                    |      |                  |
| flatness, mm   | ≤ 1,0  |                    |      |                  |
| parallelism, mm  | ≤ 1,0  |                    |      |                  |
| Shape and configuration:   |  |                    |      |                  |
| description  | tongue-groove(S), grip hole (GT)                     |                    |      |                  |
| element group  | group 1S (EN 1996-1-2)                               |                    |      |                  |
| volume of voids  | ≤ 5%   |                    |      |                  |
| Category of masonry unit   | I  |                    |      |                  |
| Compressive strength, mean, N/mm <sup>2</sup>                              | 2,5 (⊥ to bed faces, cut prism)                      |                    |      |                  |
| Dimensional stability (moisture movement), mm/m                            | ≤ 0,20   |                    |      |                  |
| Bond strength (initial shear strength), N/mm <sup>2</sup>                  | TLM: 0,30, GPM: 0,15 (fixed value, EN 998-2 annex C) |                    |      |                  |
| Flexural bond strength (fixed value, thin bed mortar), N/mm <sup>2</sup> : | (fixed value, EN 1996-1-1)                           |                    |      |                  |
|  | TLM  | GPM: $f_m < 5$ MPa |      | $f_m \geq 5$ MPa |
| plane parallel to bed joints   | 0,088  | 0,05               | 0,10 |                  |
| ⊥ plane perpendicular to bed joint, joints filled                          | 0,088  | 0,20               | 0,40 |                  |
| ⊥ plane perpendicular to bed joint, joint not filled                       | 0,063  | -                  | -    |                  |
| Reaction to fire:  | Euroclass A1   |                    |      |                  |
| Water absorption:  | do not use unprotected                               |                    |      |                  |
| Water vapour permeability:   | 5/10 (fixed value, EN 1745)                          |                    |      |                  |
| Gross dry density, kg/m <sup>3</sup>                                       | 375 ± 25   |                    |      |                  |
| Thermal conductivity, $\lambda_{10, dry, unit}$ , W/(mK)                   | ≤ 0,105 (S2, P=90%)                                  |                    |      |                  |
| Durability against freeze-thaw:  | frost resistant                                      |                    |      |                  |
| Dangerous substances:  | NPD  |                    |      |                  |

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 on behalf of the manufacturer:

Tomasz Wiśniewski  
CTO

Warszawa, 2017-01-02