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|---------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------------------|
| Declaration of Performance Ident.- N°:                                                |                                               | 01-517-39-1-4/1                                                                  |
| JUWÖ Poroton-Werke<br>Ernst Jungk & Sohn GmbH<br>D-55597 Wöllstein                    |                                               |  |
| 2016                                                                                  |                                               |                                                                                  |
| 2510-CPR-366                                                                          |                                               |                                                                                  |
| EN 771-1 : 2015                                                                       |                                               |                                                                                  |
| LD vertically perforated clay masonry unit, Category 1                                |                                               |                                                                                  |
| <b>498 x 175 x 238 mm</b>                                                             |                                               |                                                                                  |
| Intended use: Clay masonry unit for loadbearing and non-loadbearing protected masonry |                                               |                                                                                  |
| Dimensional tolerance (mm)                                                            | Mean value<br>Tm (mm)                         | Length: -10, +8                                                                  |
|                                                                                       |                                               | Width: -10, +5                                                                   |
|                                                                                       |                                               | Height: ± 5                                                                      |
|                                                                                       | Range:<br>Rm (mm)                             | Length: 12                                                                       |
|                                                                                       |                                               | Width: 10                                                                        |
|                                                                                       |                                               | Height: 6                                                                        |
| Flatness of bed faces mm                                                              | NPD                                           |                                                                                  |
| Plane parallelism of bed faces mm                                                     | NPD                                           |                                                                                  |
| Configuration                                                                         | Z-17.1-1038                                   |                                                                                  |
| Compressive strength (Mean Value)<br>N/mm <sup>2</sup>                                | ≥ 12,5                                        |                                                                                  |
| Gross dry density (Mean value) kg/m <sup>3</sup>                                      | 760                                           |                                                                                  |
| Gross dry density (Range Dm) kg/m <sup>3</sup>                                        | 660 - 850                                     |                                                                                  |
| Net dry density (Mean value) kg/m <sup>3</sup>                                        | NPD                                           |                                                                                  |
| Thermal conductivity lambda (W/mK)                                                    | NPD see additional manufacturer's information |                                                                                  |
| Durability against freeze/thaw                                                        | F0                                            |                                                                                  |
| Shear Bond Strength (Tabled values acc.to DIN EN 998-2, Annex. C) N/mm <sup>2</sup>   | NPD                                           |                                                                                  |
| Active soluble salts content                                                          | Class SO                                      |                                                                                  |
| Reaction to fire                                                                      | Class A1                                      |                                                                                  |
| Water vapour permeability t μ                                                         | 5 / 10                                        |                                                                                  |



F-0034

# ThermoBlock HLZ

## P 517 T

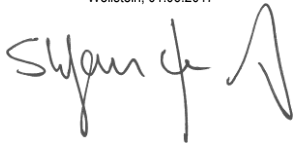
### λ 0,28 W/(mK)

Additional manufacturer's information



According approval Z-17.1-1038

|                                                                   |                 |
|-------------------------------------------------------------------|-----------------|
| Product type                                                      | ThermoBlock HLZ |
| Article N°                                                        | F-0034          |
| Article name                                                      | P 517 T         |
| Compressive strength (class)                                      | 12              |
| Class of gross density kg/dm <sup>3</sup>                         | 0,8             |
| Thermal Conductivity lambda W/(mK)                                | 0,28            |
| Permitted Compressive Stress - refer to General Building Approval |                 |
| Initial rate of water absorption                                  | NPD             |

| DECLARATION OF PERFORMANCE (DOP)                                                                                                                                                                                                                                                                                                 |                                                                                                                                                            |                                            |                                                              |                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------|-----------------------|
| 01-517-39-1-4/1                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                            |                                            |                                                              |                       |
| 1. LD vertically perforated clay masonry unit, Category 1<br>498 x 175 x 238 mm                                                                                                                                                                                                                                                  | 9. Declared performance                                                                                                                                    |                                            |                                                              |                       |
|                                                                                                                                                                                                                                                                                                                                  | Essential characteristics                                                                                                                                  | Performance                                | Harmonised technical specification                           |                       |
| 2. Article F-0034                                                                                                                                                                                                                                                                                                                | Work size LxBxH (mm)                                                                                                                                       | 498 175 238                                | EN 771-1                                                     |                       |
| 3. Clay masonry unit for loadbearing and non-loadbearing protected masonry                                                                                                                                                                                                                                                       | Dimensional tolerance (mm)                                                                                                                                 | Mean value                                 |                                                              | L: -10, +8 B: -10, +5 |
|                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                            | Tm (mm)                                    |                                                              | H: ± 5                |
|                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                            | Range:                                     |                                                              | L: 12 B: 10           |
| 4. JUWÖ Poroton-Werke<br>Ernst Jungk & Sohn GmbH<br>Ziegelhüttenstr. 40 - 42<br>D-55597 Wöllstein                                                                                                                                                                                                                                | Configuration                                                                                                                                              | Rm (mm)                                    | H: 6                                                         |                       |
|                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                            | Category                                   | Z-17.1-1038                                                  |                       |
| 5. Not applicable                                                                                                                                                                                                                                                                                                                | Compressive strength                                                                                                                                       | Mean value                                 | LD vertically perforated clay masonry unit, Category 1       |                       |
|                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                            | Direction of load                          | ≥ 12,5 N/mm <sup>2</sup><br>Vertical to the horizontal joint |                       |
| 6. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V: System 2+                                                                                                                                                                                | Moisture movement                                                                                                                                          | NPD                                        | EN 777-1                                                     |                       |
|                                                                                                                                                                                                                                                                                                                                  | Flatness of bed faces mm                                                                                                                                   | NPD                                        |                                                              |                       |
|                                                                                                                                                                                                                                                                                                                                  | Plane parallelism of bed faces mm                                                                                                                          | NPD                                        |                                                              |                       |
|                                                                                                                                                                                                                                                                                                                                  | Active soluble salts content                                                                                                                               | Class SO                                   |                                                              |                       |
|                                                                                                                                                                                                                                                                                                                                  | Reaction to fire                                                                                                                                           | Class A1                                   | EN 777-1                                                     |                       |
|                                                                                                                                                                                                                                                                                                                                  | Water absorption (% by mass)                                                                                                                               | NPD                                        |                                                              |                       |
|                                                                                                                                                                                                                                                                                                                                  | Water vapour permeability t μ                                                                                                                              | 5 / 10                                     | EN 1745                                                      |                       |
|                                                                                                                                                                                                                                                                                                                                  | Gross dry density                                                                                                                                          | Mean value (kg/m <sup>3</sup> )            | 760                                                          | EN 777-1              |
|                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                            | Tolerance category Dm (kg/m <sup>3</sup> ) | 660 - 850                                                    |                       |
|                                                                                                                                                                                                                                                                                                                                  | Net dry density (Mean value) kg/m <sup>3</sup>                                                                                                             | NPD                                        |                                                              |                       |
| Thermal conductivity lambda (W/mK)                                                                                                                                                                                                                                                                                               | NPD see additional manufacturer's information                                                                                                              |                                            | EN 1745                                                      |                       |
| Durability against freeze/thaw / Shear Bond Strength (Tabled values acc.to DIN EN 998-2, Annex. C) N/mm <sup>2</sup>                                                                                                                                                                                                             | F0 / NPD                                                                                                                                                   |                                            | EN 777-1                                                     |                       |
| Dangerous substances                                                                                                                                                                                                                                                                                                             | According to ZA.3                                                                                                                                          |                                            |                                                              |                       |
| 7. Notified production control certification body No. CPR/1794 performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity of the factory production control |                                                                                                                                                            |                                            |                                                              |                       |
| 8. Not applicable                                                                                                                                                                                                                                                                                                                |                                                                                                                                                            |                                            |                                                              |                       |
| 10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on beh                                                              | <p>Wöllstein, 01.06.2017</p>  <p>Stefan Jungk (Managing director)</p> |                                            |                                                              |                       |