



| Declaration of Performance |                |  |    |   |
|----------------------------|----------------|--|--|---|
| DOP-ENGELS-003-17-26042121 |                |  | www.baksteen.nl  |   |
| Product-code:              | 26042121       |  | <b>Steenfabriek Engels Helden B.V.</b><br>Steenstraat 8 b<br>5981 AE Panningen                      Nederland  |   |
| Product-type:              | ok waalformaat |  |  |   |
|                            |                |  | GB   |   |
|                            |                |  | Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:<br><br>HD units for use in unprotected masonry walls, columns and partitions.   | NEN EN 771-1 : 2011 A1: 2015  |
|                            |                |  | System of assessment and verification of constancy of performance of the construction product  | 2+  |
|                            |                |  | Notified Body KIWA No NB 0620 performed under system 2+ the initial inspection of the manufacturing plant and of the factory production control, performed the continuous surveillance, assessment and evaluation of the factory production control and issued the certificate of conformity of the factory production control . | 0620-CPR-14467  |
|                            |                |  | configuration:<br>Solid brick (soft mud)   |   |
|                            |                |  | <b>Declared performance</b>  | <b>EN 771-1:2011</b>  |
|                            |                |  | Dimensions   | 213 x 100 x 51 mm   |
|                            |                |  | Tolerances   | T2 4 x 3 x 2 mm   |
|                            |                |  | Range  | R1 9 x 6 x 4 mm   |
|                            |                |  | flatness of bed faces  | NPD   |
|                            |                |  | parallelism of bed faces   | NPD   |
|                            |                |  | Gross dry density  | 1750 kg/m3  |
|                            |                |  | Net dry density  | NPD kg/m3   |
|                            |                |  | Density tolerances   | D2 +/- 5 %  |
|                            |                |  | Volume of frogs  | 0 %   |
|                            |                |  | Group of the unit  | 40  |
|                            |                |  | Compressive strength *<br>perpendicular to bed faces   |   |
|                            |                |  | * mean   | 15  |
|                            |                |  | * normalized   | 10  |
|                            |                |  | Category   | I   |
|                            |                |  | Bond strength  | NPD N/mm2   |
|                            |                |  | Thermal conductivity   | 0,47 W/m.K EN 1745  |
|                            |                |  | Water vapour permeability  | 50/100 EN 1745  |
|                            |                |  | Direct airborne sound insulation   | NPD   |
|                            |                |  | Freeze/thaw resistance   | F2 (F2/D)   |
|                            |                |  | Water absorption   | 14 %  |
|                            |                |  | Initial rate of water absorption:  | 1,0 - 5,0 kg/m2.min (IW3)   |
|                            |                |  | Active soluble salts content   | S2  |
|                            |                |  | Moisture movement  | NPD mm/m  |
|                            |                |  | Dangerous substances   | passed NL-BBk   |
|                            |                |  | Reaction to fire   | A1  |
|                            |                |  | The performance of the product identified is in conformity with the declared performance.<br><br>This declaration of performance is issued under the sole responsibility of the manufacturer.  | <br>J. Engels, COO |
|                            |                |  | Signed for and on behalf of the manufacturer by:   |   |