

**Declaration of Performance (DoP)**

DoP nr. 2013-E-KM 645

1. Product-type: KM 645 Ashfort Yellow Multi  
 2. Type number: ...  
 3. Intended uses: HD units for use in unprotected (protected) masonry walls, columns and partitions  
 4. Name and contact address of the manufacturer: Steenfabriek Klinkers B.V.; Brusselseweg 700, 6219 NP, Maastricht, The Netherlands  
 6. System of assessment and verification of constancy of performance: 2+  
 7. The Notified Body: IKOB BKB  
 Notified Body BCCA N° NB 0749 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 .  
 8. production control .  
 9. Declared performance:

| HD Masonry brick (Category I, according to EN 771-1:2011)  |             |                        |                                    |
|--|-------------|------------------------|------------------------------------|
| Essential characteristics                                  | Performance |                        | Harmonized technical specification |
| Length   | 215         | mm                     |                                    |
| Width  | 100         | mm                     |                                    |
| Height   | 65          | mm                     |                                    |
| Dimensional tolerances (l / w / h)                         | T1          | ± 6 / 4 / 3            | mm                                 |
| Range (l / w / h)  | Rm          | 14 / 10 / 6            | mm                                 |
| Flatness of bed faces                                      | NPD         |                        |                                    |
| Parallelism of bed faces                                   | NPD         |                        |                                    |
| Gross dry density  | 1550        | kg/m <sup>3</sup>      |                                    |
| Net dry density  | NPD         |                        | kg/m <sup>3</sup>                  |
| Density tolerance: Class / %                               | D1          | ± 10                   | %                                  |
| Volume of frogs  | NPD         |                        | %                                  |
| Group Eurocode   | 1           |                        |                                    |
| Mean compressive strength perpendicular to bed faces       | 15          | N/mm <sup>2</sup>      |                                    |
| Normalized compressive strength perpendicular to bed faces | 15          | N/mm <sup>2</sup>      |                                    |
| Compressive strength not perpendicular to bed faces        | NPD         |                        | N/mm <sup>2</sup>                  |
| Bond strength  | NPD         |                        | N/mm <sup>2</sup>                  |
| Thermal conductivity λ <sub>10,dry,unit</sub>              | 0.45        | W/m.K                  | EN 1745:2012                       |
| Water vapour permeability                                  | 50/100      |                        | EN 1745:2012                       |
| Durability against freeze/thaw: freeze/thaw resistance     | F2          |                        |                                    |
| Free water absorption                                      | 20          |                        | %                                  |
| Initial rate of water absorption:                          | 1,0 - 5,0   | kg/m <sup>2</sup> .min |                                    |
| Active soluble salts content                               | S2          |                        |                                    |
| Dimensional stability : moisture movement                  | NPD         |                        | mm/m                               |
| Dangerous substances                                       | Complies    |                        | NL-BBk                             |
| Reaction to fire   | NPD         |                        |                                    |

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 behalf of the manufacturer by:

Function

Place and date of issue

Signature

I. Brabant  
 General manager  
 Maastricht, 28-6-2013

