



WDL (Concrete Products Ltd

Stuart Quarry Penderyn Hirwaun R.C.T. CF44 9JY

**BS EN 771-3**

**2013**

**Rock Face Blocks 3.6Nmm<sup>2</sup>**

**140RF**

**CATEGORY II 440X140X140mm Concrete masonry units**

**Dimension Tolerances:**

|  |  |
|--|--|
| <b>Category:</b>                           | <b>D1</b>                              |
| <b>Flatness:</b>                           | <b>NPD</b>                             |
| <b>Parallesmelism:</b>                     | <b>NPD</b>                             |
| <b>Configuration:</b>                      | <b>Solid</b>                           |
| <b>Mean compressive strength:</b>          | <b>3.6Nmm<sup>2</sup></b>              |
| <b>Dimension Stability:</b>                | <b>Moister movement &lt; 0.55mm/m</b>  |
| <b>Shear Bond strength</b>                 | <b>Fixed value 0.15Nmm<sup>2</sup></b> |
| <b>Flexural bond strength:</b>             | <b>NPD</b>                             |
| <b>Reaction to fire:</b>                   | <b>Euroclass A1</b>                    |
| <b>Water absorption:</b>                   | <b>NPD</b>                             |
| <b>Water Vapour diffusion coefficient:</b> | <b>Fixed value 5/12</b>                |
| <b>Direct airborne sound insulation:</b>   |  |
| <b>Gross density:</b>                      | <b>2000 kg/m</b>                       |
| <b>Configuration:</b>                      | <b>As above</b>                        |
| <b>Thermal Conductivity:</b>               | <b>1.12 W/mk</b>                       |
| <b>Dangerous substance:</b>                | <b>NPD</b>                             |



DECLARATION OF PERFORMANCE  
No. 100RF

- 1 Product type: **100RF**
- 2 Identification: **100RF**
3. Intended use: **in walls, columns and partitions**

4. Manufacturer

**WDL Concrete Products Ltd**  
**Stuart Quarry,**  
**Penderyn, Aberdare CF44 9JY**  
**Email: sales@wdlewisaberdare.co.uk**

5. Authorised Representative: **Not applicable**
6. AVCP **System 4**
7. Harmonized standard: **EN 771-3**
8. ETA: **Not relevant**
9. Declared performance

| Essential characteristics            |                                      | Performance                                | Harmonized technical specification |
|--------------------------------------|--------------------------------------|--|------------------------------------|
| Dimensions (1)                       | Length                               | 440 mm                                     | EN 771-3: 2013                     |
|                                      | Width                                | 100mm                                      |                                    |
|                                      | Height                               | 140 mm                                     |                                    |
|                                      | Tolerance category                   | D1   |                                    |
| Configuration (1)                    | Shape and features                   | NPD  |                                    |
|                                      | Group according to EN 1996-1-1 (EC6) | Group 1                                    |                                    |
| Compressive strength(1)              | Mean compressive strength            | 3.6 N/mm <sup>2</sup>                      |                                    |
|                                      | Direction of load                    | Perpendicular to bed faces                 |                                    |
|                                      | Unit category                        | Category II                                |                                    |
| Dimensional stability (1)            |                                      | 0.5mm/m (measured value)                   |                                    |
| Bond strength (1)                    | Shear bond strength                  | 0.15N/mm <sup>2</sup><br>(tabulated value) |                                    |
|                                      | Flexural bond strength               | NPD  |                                    |
| Reaction to fire (2)                 |                                      | A1<br>(Commission Decision 2000/605/EC)    |                                    |
| Water absorption (3)                 |                                      | NPD  |                                    |
| Water vapour permeability (4)        |                                      | 5/15<br>(tabulated value)                  |                                    |
| Direct airborne sound insulation (5) | Gross density                        | 2000 kg/m <sup>3</sup>                     |                                    |
| (in end conditions )/ [Density       |                                      |  |                                    |

|  |  |  |  |
|--|--|--|--|
| and configuration]                                   | Configuration; dimensions and tolerances | See configuration  |  |
| Thermal resistance/ or density and configuration (6) |  | 1.00 $\lambda_{10, \text{dry, unit}}$<br>(tabulated value) |  |
| Durability against freeze/thaw                       |  | Pass   |  |
| Dangerous substances                                 |  | NPD  |  |

(1) for units intended to be used in elements subject to structural requirements

(2) for units intended to be used in elements subject to fire requirements

(3) for units intended to be used in damp proof courses or in external elements with an exposed face

(4) for units intended to be used in external elements

(5) for units to be used in elements subject to acoustic requirements


(6) for units intended to be used in elements subject to thermal insulation requirements

10. The performance of the product identified in 1 and 2 is in conformity with the declared performance in 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in 4.

Signed on behalf of the manufacturer:

**Name: Martin Lewis (Joint Managing Director)**

**Signature:** 

**Valid From: Aberdare, 01.07.2013**