



WDL (Concrete Products Ltd

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

BS EN 771-3

2013

Dense Concrete Blocks Standard 21/Nmm²

100DS21

CATEGORY II 440X215X100mm Concrete masonry units

Dimension Tolerances:

<i>Category:</i>	<i>D1</i>
<i>Flatness:</i>	<i>NPD</i>
<i>Parallesmelism:</i>	<i>NPD</i>
<i>Configuration:</i>	<i>Solid</i>
<i>Mean compressive strength:</i>	<i>21Nmm²</i>
<i>Dimension Stability:</i>	<i>Moister movement < 0.55mm/m</i>
<i>Shear Bond strength</i>	<i>Fixed value 0.15Nmm²</i>
<i>Flexural bond strength:</i>	<i>NPD</i>
<i>Reaction to fire:</i>	<i>Euroclass A1</i>
<i>Water absorption:</i>	<i>NPD</i>
<i>Water Vapour diffusion coefficient:</i>	<i>Fixed value 5/12</i>
<i>Direct airborne sound insulation:</i>	
<i>Gross density:</i>	<i>2000 kg/m</i>
<i>Configuration:</i>	<i>As above</i>
<i>Thermal Conductivity:</i>	<i>1.12 W/mk</i>
<i>Dangerous substance:</i>	<i>NPD</i>



DECLARATION OF PERFORMANCE
No. 100DS21

- 1 Product type: **100DS21**
- 2 Identification: **100DS21**
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	215 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	21 N/mm ²	
	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 ² (tabulated value)	
	Flexural bond strength	NPD	
Reaction to fire (2)		A1 (Commission Decision 2000/605/EC)	
Water absorption (3)		NPD	
Water vapour permeability (4)		5/15 (tabulated value)	
Direct airborne sound insulation (5) (in end conditions)/ [Density	Gross density	2000 kg/m ³	

and configuration]	Configuration; dimensions and tolerances	See configuration	
Thermal resistance/ or density and configuration (6)		1.00 $\lambda_{10, \text{dry, unit}}$ (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