

**DECLARATION OF PERFORMANCE  
UKCA 50**



1. Product Type: **Insulite Brick - 10.4N**
2. Identification: **Product ID code is shown on delivery ticket**
3. Intended Use: **In walls, columns and partitions**
4. Manufacturer: **Thomas Armstrong (Holdings) Ltd Workington Rd, Flimby, Maryport, Cumbria. CA15 8RY**
5. Authorised Representative: **Not applicable**
6. AVCP: **System 4**
7. Designated Standard: **BS EN 771-3 : 2011**
8. ETA: **Not Relevant**
9. Declared Performance:

Essential Characteristics	Performance	Designated technical specification
<b>Dimensions</b>	Length, mm	215
	Width, mm	Various - shown on the delivery documentation
	Height, mm	65
<b>Dimensional Tolerance</b>	D1 (Flatness NPD, Plane Parallelism NPD)	
<b>Configuration</b>	Shape & features	NPD
	Group according to EN 1996-1-1 (EC6)	Group 1
<b>Compressive strength</b>	Mean compressive strength, N/mm <sup>2</sup>	10.4 (⊥ bed face, whole unit) (Cat II)
	Direction of load	Perpendicular to bed faces
	Unit category	Category II
<b>Dimensional stability</b>	Moisture Movement, mm/m	0.6
<b>Bond strength</b>	Shear bond strength, N/mm <sup>2</sup>	0.15 with GPLM
	Flexural bond strength	NPD
<b>Reaction to fire</b>	A1 (Commission Decision 2000/605/EC)	
<b>Water absorption, gm<sup>2</sup>.s<sup>-0.5</sup></b>	NPD	
<b>Water vapour permeability</b>	5/15 (tabulated value)	
<b>Direct airbourne sound insulation</b>	Gross density, kg/m <sup>3</sup>	1500
	Configuration; dimensions & tolerances	See configuration
<b>Thermal Conductivity, W/mK (λ<sub>10, dry</sub>) ρ = 50%</b>	0.44	Dry value - design values require correction for moisture content. See product literature.
<b>Durability against freeze / thaw</b>	For use below and above ground level	
<b>Dangerous substances</b>	See Note	
<b>Note: Information on Dangerous Substances will only be given when and where required in the appropriate form. See Annex ZA of BS EN 771-3:2011</b>		

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:  
J Mason (Technical Manager)

*J Mason* Brompton-on-Swale, North Yorkshire.  
1st August 2021



**Thomas Armstrong (Holdings) Ltd Workington Rd, Flimby, Maryport, Cumbria. CA15 8RY**  
**21**  
**UKCA 50**

BS EN 771-3 : 2011

**Insulite Brick - 10.4N**

Category II aggregate concrete masonry unit

<b>Dimensions</b>	Length, mm	215
	Width, mm	Various - shown on the delivery documentation
	Height, mm	65
<b>Dimensional Tolerance</b>	Category	D1 (Flatness NPD, Plane Parallelism NPD)
<b>Configuration</b>	Shape & features	NPD
	Group according to EN 1996-1-1 (EC6)	Group 1
<b>Compressive strength</b>	Mean compressive strength, N/mm <sup>2</sup>	10.4 (⊥ bed face, whole unit) (Cat II)
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<b>Bond strength</b>	Shear bond strength, N/mm <sup>2</sup>	0.15 with GPLM
	Flexural bond strength	NPD
<b>Reaction to fire</b>	A1 (Commission Decision 2000/605/EC)	
<b>Water absorption, gm<sup>2</sup>.s<sup>-0.5</sup></b>	NPD	
<b>Water vapour permeability</b>	5/15 (tabulated value)	
<b>Direct airbourne sound insulation</b>	Gross density, kg/m <sup>3</sup>	1500
	Configuration; dimensions & tolerances	See configuration
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**See Declaration of Performance: UKCA 50**