

**DECLARATION OF PERFORMANCE  
CE31**



1. Product Type: **Solid Dense Concrete Paint-Grade - 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. Harmonised Standard: **EN 771-3 : 2011**
8. ETA: **Not Relevant**
9. Declared Performance:

Essential Characteristics		Performance	Harmonised technical specification
Dimensions	Length, mm	440	EN 771-3 : 2011
	Width, mm	Various - shown on the delivery documentation	
	Height, mm	215	
Dimensional Tolerance		D1 (Flatness NPD, Plane Parallelism NPD)	
Configuration	Shape & features	NPD	
	Group according to EN 1996-1-1 (EC6)	Group 1	
Compressive strength	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	
Dimensional stability	Moisture Movement, mm/m	0.6	
Bond strength	Shear bond strength, N/mm <sup>2</sup>	0.15 with GPLM	
	Flexural bond strength	NPD	
Reaction to fire		A1 (Commission Decision 2000/605/EC)	
Water absorption, gm <sup>2</sup> .s <sup>-0.5</sup>		<350g/m2.s	
Water vapour permeability		5/15 (tabulated value)	
Direct airbourne sound insulation	Gross density, kg/m <sup>3</sup>	2000	
	Configuration; dimensions & tolerances	See configuration	
Thermal Conductivity, W/mK (A <sub>10, dry</sub> ) ρ = 50%		1.05 <small>Dry value - design values require correction for moisture content. See product literature.</small>	
Durability against freeze / thaw		For use below and above ground level	
Dangerous substances		See Note	

Note: Information on Dangerous Substances will only be given when and where required in the appropriate form. See Annex ZA of BS EN 771-4:2042

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)  
Brompton-on-Swale, North Yorkshire. 1st June 2013



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

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CE31

EN 771-3 : 2011

**Solid Dense Concrete Paint-Grade - 10.4N**

Category II aggregate concrete masonry unit

Dimensions	Length, mm	440
	Width, mm	Various - shown on the delivery documentation
	Height, mm	215
Dimensional Tolerance	Category	D1 (Flatness NPD, Plane Parallelism NPD)
Configuration	Shape & features	NPD
	Group according to EN 1996-1-1 (EC6)	Group 1
Compressive strength	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
Dimensional stability	Moisture Movement, mm/m	0.6
Bond strength	Shear bond strength, N/mm <sup>2</sup>	0.15 with GPLM
	Flexural bond strength	NPD
Reaction to fire		A1 (Commission Decision 2000/605/EC)
Water absorption, gm <sup>2</sup> .s <sup>-0.5</sup>		<350g/m2.s
Water vapour permeability		5/15 (tabulated value)
Direct airbourne sound insulation	Gross density, kg/m <sup>3</sup>	2000
	Configuration; dimensions & tolerances	See configuration
Thermal Conductivity, W/mK (A <sub>10, dry</sub> ) ρ = 50%		1.05 <small>Dry value - design values require correction for moisture content. See product literature.</small>
Durability against freeze / thaw		For use below and above ground level
Dangerous substances		See Note

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See also Declaration of Performance CE31