DECLARATION OF PERFORMANCE CE01



1. Product Type: Airtec XL Wall block

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 2+
7. Harmonised Standard: EN 771-4 : 2011

8. ETA: British Board of Agrément, PO Box 195, Bucknalls Lane, Garston, Watford. WD25 7NG (NB 0836)

9. Declared Performance:

Essential Characteristics		Performance	Harmonised technical specification
Dimensions	Length, mm	620	
	Width, mm	Various - shown on the delivery documentation	
	Height, mm	215	
Dimensional Tolerance		TLMB (Flatness 1.0mm, Plane Parallelism 1.0mm)	
Configuaration	Shape & features	NPD	
	Group according to EN 1996-1-1 (EC6)	Group 1	
Compressive strength	Mean compressive strength, N/mm ²	2.9 (⊥ bed face, whole unit) (Cat I)	
	Direction of load	Perpendicular to bed faces	
	Unit category	Category I	
Dimensional stability	Moisture Movement, mm/m	0.4	EN 771-4 : 2011
Bond strength	Shear bond strength, N/mm ²	0.15 with GPLM 0.30 with TLM	
	Flexural bond strength	NPD	
Reaction to fire		A1 (Commission Decision 2000/605/EC)	
Water absorption, gm ² .s ^{-0.5}		NPD	
Water vapour permeability		5/10 (tabulated value)	
Direct airbourne sound insulation	Gross density, kg/m ³	460	
	Configuration; dimensions & tolerances	See configuration	
Thermal Conductivity, W/mK ($\Lambda_{10, dry}$) $\rho = 50\%$		0.08 Dry value - design values require correction for moisture content. See product literature.	
Durability against freeze / thaw		For use 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 771-4:2011

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:

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J Mason (Technical Manager)
Brompton-on-Swale, North Yorkshire. 1st June 2013



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

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CE01

EN 771-4 : 2011

Airtec XL Wall block

Category II autoclaved aerated concrete masonry unit

Length, mm 620 Dimensions Width, mm Various - shown on the delivery documentation Perpendicular to lenance Category TLMB (Flatness 1.0mm, Plane Parallelism 1.0mm) Confliguration Shape & features NPD Compressive strength Mean compressive strength, N/mm² 2.9 (⊥ bed face, whole unit) (Cat I) Compressive strength Direction of load Perpendicular to bed faces Dimensional stability Moisture Movement, mm/m 0.4 Bond strength Nmp NPD Reaction to fire A1 (Commission 2000/605/EC) Water absorption, gm², s³.5 NPD Water vapour permeability 5/10 (tabulaturation) Onfiguration; dimensions & tolerances See configuration Thermal Conductivity, W/mK (A _{10, dm}) p = 50% Configuration; dimensions & tolerances See configuration Dangerous substances See Note				
Height, mm 215 Dimensional Tolerance Category TLMB (Flatness 1.0mm, Plane Parallelism 1.0mm)		Length, mm	620	
Dimensional Tolerance Category TLMB (Flatness 1.0mm, Plane Parallelism 1.0mm) Configuration Shape & features NPD Group according to EN 1996-1-1 (EC6) Group 1 Compressive strength Mean compressive strength, N/mm² 2.9 (⊥ bed face, whole unit) (Cat I) Compressive strength Direction of load Perpendicular to bed faces Unit category Category I Dimensional stability Moisture Movement, mm/m 0.4 Bond strength Shear bond strength, N/mm² 0.15 with GPLM 0.30 with TLM NPD NPD Reaction to fire A1 (Commission Decision 2000/605/EC) Water absorption, gm².s².s².s² NPD Water vapour permeability S/10 (tabulated value) Direct airbourne sound insulation Gross density, kg/m³ 460 Direct airbourne sound insulation Configuration; dimensions & tolerances See configuration Thermal Conductivity, W/mK (A _{10, dry}) p = 50% 0.08 Dry value - design values require correction for moisture content. See product literature. Durability against freeze / thaw	Dimensions	Width, mm	Various - shown on the delivery documentation	
Shape & features NPD Group according to EN 1996-1-1 (EC6) Group 1 Mean compressive strength, N/mm² 2.9 (⊥ bed face, whole unit) (Cat I) Direction of load Perpendicular to bed faces Unit category Category I Dimensional stability Moisture Movement, mm/m 0.4 Bond strength Flexural bond strength, N/mm² 0.15 with GPLM 0.30 with TLM Flexural bond strength NPD Reaction to fire A1 (Commission Decision 2000/605/EC) Water absorption, gm².s⁻⁰.⁵ Water vapour permeability 5/10 (tabulated value) Direct airbourne sound insulation Configuration; dimensions & tolerances See configuration Thermal Conductivity, W/mK (A₁0, dm) ρ = 50∀ 0.08 Dry value - design values require correction for moisture content. See product literature. Durability against freeze / thaw For use above ground level		Height, mm	215	
Configuration Group according to EN 1996-1-1 (ECG) Group 1 Compressive strength Mean compressive strength, N/mm² 2.9 (⊥ bed face, whole unit) (Cat I) Compressive strength Direction of load Perpendicular to bed faces Unit category Category I Dimensional stability Moisture Movement, mm/m 0.4 Shear bond strength, N/mm² 0.15 with GPLM 0.30 with TLM NPD Reaction to fire A1 (Commission Decision 2000/605/EC) Water absorption, gm².s ° .5 NPD Water vapour permeability 5/10 (tabulated value) Direct airbourne sound insulation Gross density, kg/m³ 460 Direct airbourne sound insulation Configuration; dimensions & tolerances See configuration Thermal Conductivity, W/mK (A ₁₀ , dm²) ρ = 50% 0.08 Diry value - design values require correction for moisture content. See product literature. Durability against freeze / thaw For use above ground level <th>Dimensional Tolerance</th> <th>Category</th> <th colspan="2">TLMB (Flatness 1.0mm, Plane Parallelism 1.0mm)</th>	Dimensional Tolerance	Category	TLMB (Flatness 1.0mm, Plane Parallelism 1.0mm)	
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Bond strength NPD Reaction to fire A1 (Commission Decision 2000/605/EC) Water absorption, gm², s², s², s² NPD Water vapour permeability 5/10 (tabulated value) Direct airbourne sound insulation Gross density, kg/m³ 460 Configuration; dimensions & tolerances See configuration Thermal Conductivity, W/mK (A₁0, dm²) ρ = 50% 0.08 Dry value - design values require correction for moisture content. See product literature. Durability against freeze / thaw For use above ground level	Dimensional stability	Moisture Movement, mm/m	0.4	
Flexural bond strength Reaction to fire A1 (Commission Decision 2000/605/EC) Water absorption, gm².s⁰.5 Water vapour permeability Florect airbourne sound insulation Configuration; dimensions & tolerances Thermal Conductivity, W/mK (A₁0, dn²) p = 50* Durability against freeze / thaw NPD A1 (Commission Decision 2000/605/EC) NPD 5/10 (tabulated value) See configuration See configuration Div value - design values require correction for moisture content. See product literature. Por use above ground level	Rond strength	Shear bond strength, N/mm ²	0.15 with GPLM 0.30 with TLM	
Water vapour permeability Solution (pm².s-0.5) Water vapour permeability For use above ground level NPD NPD NPD NPD Addition Solution NPD Addition Solution Solution NPD Addition Solution Solution NPD Addition Solution NPD Addition Solution Solution NPD Addition Solution NPD Addition Solution S	20114 Strongth	Flexural bond strength	NPD	
Water vapour permeability 5/10 (tabulated value) Direct airbourne sound insulation Configuration; dimensions & tolerances See configuration Thermal Conductivity, W/mK (A _{10, dry}) p = 50% 0.08 Dry value - design values require correction for moisture content. See product literature. Durability against freeze / thaw For use above ground level	Reaction to fire		A1 (Commission Decision 2000/605/EC)	
Direct airbourne sound insulation Gross density, kg/m³ 460 Configuration; dimensions & tolerances See configuration Thermal Conductivity, W/mK (Λ _{10, dry}) ρ = 50% 0.08 Dry value - design values require correction for moisture content. See product literature. Durability against freeze / thaw For use above ground level	Water absorption, gm ² .s ^{-0.5}		NPD	
Direct airbourne sound insulation Configuration; dimensions & tolerances See configuration Thermal Conductivity, W/mK (A _{10, dry}) p = 50% 0.08 Dry value - design values require correction for moisture content. See product literature. Durability against freeze / thaw For use above ground level	Water vapour permeability		5/10 (tabulated value)	
Thermal Conductivity, W/mK (Λ _{10, dry}) ρ = 50% 0.08 Dry value - design values require correction for moisture content. See product literature. Durability against freeze / thaw For use above ground level	Direct airbourne sound insulation	Gross density, kg/m ³	460	
Durability against freeze / thaw For use above ground level		Configuration; dimensions & tolerances	See configuration	
	Thermal Conductivity, W/mK ($\lambda_{10, dry}$) $\rho = 1$	50%		
Dangerous substances See Note	Durability against freeze / thaw		For use 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 771-4:2011

See also Declaration of Performance CE01