

## DECLARATION OF PERFORMANCE

In accordance with the Regulation (EU) No.305/2011

**N° 005-DoP2-2017-11-21-EN 14063-1 – EN 15732**

**2. Intended uses :** Thermal insulation materials and products - In-situ formed expanded clay lightweight aggregate products (LWA) and Light weight fill and thermal insulation products for civil engineering applications (CEA)

**3. Manufacturer :** ARGEX SA/NV

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**4. Assessment and verification of constancy of performance (AVCP) :** System 4 & 3 for Reaction to Fire

**5. Standards :**

- (1) EN 14063-1 : Thermal insulating materials and products - In-situ formed expanded clay lightweight aggregate products (LWA) - Part 1: Specification for the loose-fill products before installation
- (2) EN 15732 : Light weight fill and thermal insulation products for civil engineering applications (CEA) - Expanded clay lightweight aggregate products (LWA)

**Product identification - product description (source materials EN 13055) :** manufactured LWA from natural source materials - **LB1 : expanded clay** – see

6. Declared performances

**6. Declared performances :**

Harmonised technical specification : EN 14063-1 & EN 15732	Essential characteristics																
	Reaction to fire	Water permeability		Release of dangerous substances	Thermal resistance			Water vapor transmission	Compressive strength			Resistance to dynamic loads	Durability against ageing/degradation				Particle shape
		Water permeability	water suction height		Thermal conductivity <sup>(3)</sup>	Loose bulk density <sup>(4)</sup>	Aggregate size		bulk crushing resistance - 2x30"	Confined compressive strength - CS(10)	Confined compressive strength - CS(2)	Cyclic compression (2.000.000 cycles - 120 kPa vertical load)	Reaction to fire	Thermal resistance	Compressive strength	Resistance to dynamic loads	Chemical and biological attack
	Euroclass	m/s	mm		W/(mK)	kg/m <sup>3</sup>	d/D - mm	μ	N/mm <sup>2</sup>	MPa	MPa	%					

Product identification	Performance																
AG0/4-500	Euroclass A1 <sup>(1)</sup>	> 0,06x10 <sup>-3</sup>	NPD <sup>(2)</sup>	0,105	500	0/4	2	NPD	> 0,60	> 0,30	< 12 - (< 5 <sup>(5)</sup> )	do not change with time					crushed
AG4/8-370		> 10 <sup>-2</sup>			370	4/8		> 0,5	> 0,58	> 0,29	< 2						crushed
AR4/10-430		> 10 <sup>-2</sup>			430	4/10		> 0,9	> 0,90	> 0,54	< 4						round
AR8/16-340		> 10 <sup>-1</sup>			< 50	340		8/16	> 0,5	> 0,46	> 0,27						< 4

NPD = No Performance Determined

(1) Commission Decision 2000/605/EC  
(2) see Appropriate Technical documentation : KIWA certification in NL  
(3)  $\lambda_{90/90} 10^{\circ}\text{C dry} = \lambda_{ui}$  - www.epbd.be  
(4)  $\pm 15\%$  with a maximum of  $\pm 100 \text{ kg/m}^3$   
(5) wet materials (> 40% humidity)

**Appropriate technical documentation :**

- CE certification and **technical sheets** are available on [www.argex.eu/dop](http://www.argex.eu/dop)
- Products identified in table above are covered by **BRL certification** in NL regarding the leaching of dangerous substances for loose applications in contact with the ground water : certification KIWA / K73820-01 on [www.argex.eu](http://www.argex.eu)
- Thermal conductivity in contact with ground : Thermosol Argex AR8/16-340 -  $\lambda_{ue} = 0.108 \text{ W/(mK)}$  – see [www.epbd.be](http://www.epbd.be)
- Quality management system : **ISO 9001:2008 & ISO 14001:2004**
- Product identification :  
Aggregate trade name : **A** = Argex  
Particle shape : **R** = rounded – **G** : crushed – **M** = mix rounded & crushed  
Aggregate size : **d/D** (mm) and Declared loose bulk density in  $\text{kg/m}^3$  in accordance with EN 13055:2016  
**C** = Coating

The performance of the aggregates identified in table above is in conformity with the declared performance of CE Technical sheet enclosed.

This declaration of performance is issued under our sole responsibility.

Signed for and on behalf of the manufacturer by:

Xavier KESTEMONT  
R&D – Quality Manager  
ARGEX SA/NV

21/11/2017

