



**DECLARATION OF PERFORMANCE**

DOP n° 140430400FABONE ALU OUT 2021-09-01

**FOAMGLAS®FAB ONE ALUBUT OUT**



**FOAMGLAS®**

|   |   |
|---|---|
| 1. Unique identification code of the product-type   | <b>FOAMGLAS®FAB ONE ALUBUT OUT</b><br>DOP n° 140430400FABONE ALU OUT 2021/09/01-ThBell-CG-EN14305-ST(+)-ST(-)-W5-CL2-Mu                             |
| 2. Identification of the construction product as required under Art. 11(4)                      | <b>Cellular glass - Fabricating ONE- PSH and other fabricated ware + COATING</b>  |
| 3. Intended use or uses of the construction product   | <b>Thermal insulation for industrial installations &amp; Building Equipment</b>   |
| 4. Name and contact address of the manufacturer as required pursuant Art. 11(5)                 | <b>PCE-Pittsburgh Corning Europe NV/SA - Albertkade 1 - B3980 Tessenderlo (B)</b><br><b>www.foamglas.com</b> <b>Compliance.DOP@owenscorning.com</b> |
| 5. Name of the authorised representative whose mandate covers the tasks specified in Art. 12(2) | <b>None</b>   |
| 6. System or systems AVCP as set out in Annex V   | <b>AVCP system 3</b>  |
| Harmonised standard   | <b>EN 14305</b>   |
| 7. Notified body  | <b>Thermal conductivity - BBRI (No. 1136) &amp; FIW (No. 751) / Fire reaction - WFGRT (No. 1173) / Compressive strength -BBRI (No. 1136)</b>        |

8. Table 1

| Essential characteristics   | Performance                                |  |
|---|--|--|
|   | Thermal resistance                         | Thermal conductivity ( $\lambda$ D-value)  |
|   | Thickness                                  | following order  |
| Reaction to fire Euroclass characteristics                                    | Reaction to fire                           | Euroclass E  |
|   | Thermal conductivity ( $\lambda$ D-value)  | $\lambda$ D-value see table 2  |
| Durability of thermal resistance against heat, weathering, ageing/degradation | Durability characteristics                 | Thermal conductivity of cellular glass products does not change with time, experience has shown the cell structure to be stable. |
|   | Dimensional Stability                      | DS (70/90)   |
| Durability of reaction to fire against heat, weathering, ageing/degradation   | Durability characteristics                 | The fire performance of cellular glass does not deteriorate with time.   |
|   | Dimensional Stability                      | DS (70/90)   |
| Compressive strength  | Compressive strength                       | CS $\geq$ 600 kPa (*)  |
|   | Point load                                 | PL $\leq$ 1,5 mm (*)   |
| Tensile/flexural strength   | Bending Strength                           | BS $\geq$ 450 kPa (*)  |
|   | Tensile strength parallel to faces         | NPD  |
|   | Tensile strength perpendicular to faces    | TR $\geq$ 150 kPa (*)  |
| Durability of compressive strength against aging degradation                  | Compressive creep                          | -  |
| Water permeability  | Water absorption (short)                   | WS   |
|   | Water absorption (long)                    | WL(P)  |
| Water vapour permeability   | Water vapour resistance                    | $\infty$ infinite  |
| Acoustic absorption index   | Sound absorption                           | AP1 $\rightarrow$ NPD  |
| Release of dangerous substances to the indoor environment                     | Release of dangerous substances            | NPD  |
| Min / Max Temperature range   | Min / Max Temperature range                | N.A.   |
| Trace quantities of water soluble chloride                                    | Trace quantities of water soluble chloride | $\leq$ 2 mg/kg   |
| pH  | NPD  | 8-10   |
| Continuous glowing combustion   | Continuous glowing combustion              | no glowing combustion  |

EN 14305: 2009 + A1:2013

(\*) These performances and declarations are obtained from the slabs, from which the fabricated ware is sawed and/or abraded.

Table 2

|                             | PSG and other fabricated ware    | PSH-ware                         |
|-----------------------------|----------------------------------|----------------------------------|
| Thermal conductivity -180°C | $\lambda$ D $\leq$ 0.020 W/(m.K) | $\lambda$ D $\leq$ 0.021 W/(m.K) |
| Thermal conductivity -150°C | $\lambda$ D $\leq$ 0.022 W/(m.K) | $\lambda$ D $\leq$ 0.024 W/(m.K) |
| Thermal conductivity -120°C | $\lambda$ D $\leq$ 0.025 W/(m.K) | $\lambda$ D $\leq$ 0.027 W/(m.K) |
| Thermal conductivity -80°C  | $\lambda$ D $\leq$ 0.029 W/(m.K) | $\lambda$ D $\leq$ 0.031 W/(m.K) |
| Thermal conductivity -40°C  | $\lambda$ D $\leq$ 0.034 W/(m.K) | $\lambda$ D $\leq$ 0.037 W/(m.K) |
| Thermal conductivity 0°C    | $\lambda$ D $\leq$ 0.040 W/(m.K) | $\lambda$ D $\leq$ 0.043 W/(m.K) |
| Thermal conductivity +40°C  | $\lambda$ D $\leq$ 0.046 W/(m.K) | $\lambda$ D $\leq$ 0.050 W/(m.K) |
| Thermal conductivity +80°C  | $\lambda$ D $\leq$ 0.054 W/(m.K) | $\lambda$ D $\leq$ 0.057 W/(m.K) |
| Thermal conductivity +120°C | $\lambda$ D $\leq$ 0.061 W/(m.K) | $\lambda$ D $\leq$ 0.067 W/(m.K) |
| Thermal conductivity +180°C | $\lambda$ D $\leq$ 0.075 W/(m.K) | $\lambda$ D $\leq$ 0.083 W/(m.K) |
| Thermal conductivity +240°C | $\lambda$ D $\leq$ 0.090 W/(m.K) | $\lambda$ D $\leq$ 0.103 W/(m.K) |
| Thermal conductivity +300°C | $\lambda$ D $\leq$ 0.107 W/(m.K) | $\lambda$ D $\leq$ 0.128 W/(m.K) |

9. The performance of the product is in conformity with the declared performance . This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer

Nabil Boukolt, Product & Systems Certifications

Tessenderlo (B), 1-9-2021

Previous version: 20-10-2020