



*Constructions Métalliques  
et Préfabrication d'Arles*

1, Rue Copernic - Z.I. Nord - 13200 ARLES

☎ : 04.90.93.33.30 - Téléfax : 04.90.93.33.31

**Client/Customer : AIR LIQUIDE AGS GmbH**  
Document N° 783-QCD01

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## CHAPTER 8

### FOAMGLAS

# PITTSBURGH CORNING EUROPE N.V.

Albertkade, 1  
B - 3980 Tessenderlo

## CONFORMITY CERTIFICATE

**AIR LIQUIDE PURCHASE ORDER Nr. : 4500023517**

**Project Number : K70101 ASU KOSICE / ASU No. 9 KOSICE**

**Business Number : LP 119 I 40009**

Order numbers: PCE 408031

Date : March 15, 2005

We hereby certify that the FOAMGLAS® products manufactured for this order are made in accordance with ASTM C552-91 and others norms and type approvals as generally stated on the packing of each parcel, in our Tessenderlo plant, which operates under a quality system certified according to NBN EN ISO 9001:2000 . All the necessary tests and inspections have been carried out in accordance with the procedures and work instructions of the quality system.


The compressive strength is measured according to EN 826 and ASTM C240-91.

The density is measured according to EN 1602 and ASTM C303.

The thermal conductivity is measured according to ISO 8301 and ASTM C518 (Heat flowmeter method).

For Fabricated ware, the dimensions are in accordance to the A.G.Q. norm Q137.

The material - cellular glass FOAMGLAS® - is made of pure glass. It does not contain binders nor fibers, and it presents no health dangers nor is it harmful for the environment.



Dr. Hans Strauven

Process Control &  
Development Manager

# PITTSBURGH CORNING EUROPE N.V.

Albertkade, 1  
B - 3980 Tessenderlo

## QUALITY CERTIFICATE

Date : March 15, 2005

**AIR LIQUIDE PURCHASE ORDER Nr. : 4500023517**

**Project Number : K70101 ASU KOSICE / ASU No. 9 KOSICE**

**Business Number : LP 119 I 40009**

Pittsburgh Corning Europe order number : PCE 408031

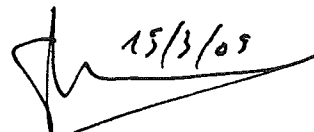
**FOAMGLAS® HLB 1000**

Specification : I-QA-01-SS 2001-10-23

We hereby certify that the FOAMGLAS® cellular glass insulation manufactured for this order is made in accordance with the specification referenced above and others norms and type approvals as generally stated on the packing of each parcel, in our Tessenderlo plant, which operates under a quality system certified according to NBN EN ISO 9002. All the necessary tests and inspections have been carried out in accordance with the procedures and work instructions of the quality system.

The compressive strength is measured according to EN 826 and ASTM C240-91.  
The density is measured according to EN 1602 and ASTM C303.  
The thermal conductivity is measured according to ISO 8301 and ASTM C518 (Heat flowmeter method).

The material - cellular glass FOAMGLAS® - is made of pure glass. It does not contain binders nor fibers, and it presents no health dangers nor is it harmful for the environment.



Dr. Hans Strauven

Process Control &  
Development Manager

**AIR LIQUIDE PURCHASE ORDER Nr. : 4500023517**  
**Project Number : K70101 ASU KOSICE / ASU No. 9 KOSICE**  
**Business Number : LP 119 I 40009**

PITTSBURGH  
 CORNING  
 EUROPE N.V.

Tessengerlo  
 15/03/2005

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QUALITY CONTROL  
 TEST CERTIFICATE

FOAMGLAS (R) TYPE  
 HLB1000

Compressive strength per ASTM C240-91 and EN 826

Thermal conductivity per ASTM C518 and ISO 8301

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| Date       | Hr | Unit | Line | Compressive           | Density              | K-Value      |
|------------|----|------|------|-----------------------|----------------------|--------------|
| dd/mm/yyyy |    | nr   | nr   | Strength              |                      | at 10 degr.C |
|            |    |      |      | [ N/mm <sup>2</sup> ] | [Kg/m <sup>3</sup> ] | [W/mK]       |

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|            |    |    |    |       |     |        |
|------------|----|----|----|-------|-----|--------|
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| 02/02/2005 | 03 | 11 | 11 | 1.057 | 126 |        |
| 02/02/2005 | 04 | 11 | 11 | 1.287 | 126 |        |
| 02/02/2005 | 05 | 11 | 11 | 1.193 | 125 |        |
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| 04/02/2005 | 04 | 11 | 11 | 1.218 | 128 |        |

*15/3/05*

**AIR LIQUIDE PURCHASE ORDER Nr. : 4500023517****Project Number : K70101 ASU KOSICE / ASU No. 9 KOSICE****Business Number : LP 119 I 40009**PITTSBURGH  
CORNING  
EUROPE N.V.Tessenderlo  
15/03/2005

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QUALITY CONTROL  
TEST CERTIFICATEFOAMGLAS(R) TYPE  
HLB1000

Compressive strength per ASTM C240-91 and EN 826

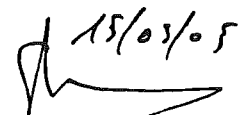
Thermal conductivity per ASTM C518 and ISO 8301

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| Date       | Hr | Unit | Line | Compressive | Density  | K-Value      |
|------------|----|------|------|-------------|----------|--------------|
| dd/mm/yyyy |    | nr   | nr   | Strength    |          | at 10 degr.C |
|            |    |      |      | [ N/mm^2]   | [Kg/m^3] | [W/mK]       |

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|            |    |    |    |       |     |        |
|------------|----|----|----|-------|-----|--------|
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15/03/05