

# Approval Certificate



This is to certify, that the undernoted products have been approved in accordance with the relevant requirements of the GL Approval System.

Certificate No. 11 795 - 10 HH

Company eka-edelstahlkamine gmbH  
Robert - Bosch - Str. 4  
95369 Untersteinach, GERMANY

Product Exhaust Gas System

Type complex Europ D (double wall)  
complex Europ E (single wall)

Technical Data / Application TECHNICAL DATA  
Materials: Inner pipe AISI 316L/316Ti/304H (1.4404, 1.4571, 1.4948)  
Outer pipe AISI 304 (1.4301), AISI 316L/316Ti (1.4404, 1.4571)  
Thickness 0.6mm (minimum) outside, 1,0 mm inside  
Insulation: Type approved pre-formed mineral fibre  
Min. thickness 50 mm  
Min. density 90 kg/m<sup>3</sup>  
Sealing Materials: Asplit (up to 600°C)  
Silicone (up to 200°C)  
Size range : 150 mm up to 1000 mm  
M.A.W.P. / M.A.W.T. : 5000 Pa / 600 °C

Range of Application:  
The piping systems of type complex medi are approved for the use as exhaust gas lines on boilers and diesel engines (downstream of turbo chargers).

Approval Standard DIN EN 1856-1: 2003, DIN EN 1859: 2000, DIN EN 13216-1:2004

Documents - Test reports : TÜV SÜD test report no.: A 1812-00/09, dated: 02.09.2009  
- Certificate: TÜV SÜD Cert. 0036 CPD 90216 008, dated: 09.10.2009  
- Drawings of piping systems, technical data sheet of sealing material and installation instructions

Remarks For penetration of fire divisions GL type approved pipe penetrations are to be used

Valid until 2015-08-20

File No. XI.B.03

**Germanischer Lloyd**

Hamburg, 2010-08-20

Handwritten signature of Hanspeter Raschle in black ink.

Hanspeter Raschle

Handwritten signature of Peter Gierhan in black ink.

Peter Gierhan

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## PRODUCTION PLACE

eka-edelstahlkamine gmbh  
Robert - Bosch - Str. 4  
95369 Untersteinach  
GERMANY

## MARKING

Each device shall bear legible and durable marking on the body or on a plate fixed securely to the body as follows:

- Manufacturer's Mark • Identity Number • Nominal Diameter • GL Certificate No. •

## REMARKS / LIMITATIONS

- The selection of the Exhaust Gas System for the corresponding application and the right installation are to be in accordance with the instructions of the manufacturer.

**Germanischer Lloyd**

Hamburg, 2010-08-20

*Hanspeter Raschle* *Peter Gierhan*

Hanspeter Raschle

Peter Gierhan