

# 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. 20 107 - 11 HH

Company eka-edelstahlkamine gmbH

Robert - Bosch - Str. 4  
95369 Untersteinach, GERMANY

Product Exhaust Gas System

Type complex medi D (double wall)  
complex medi 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, 0.5 mm inside

Insulation: Type approved pre-formed mineral fibre  
Min. thickness 30 mm  
Min. density 90 kg/m<sup>3</sup>

Sealing Materials: Asplit (up to 600°C)  
Size range: 80 mm up to 500 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: 2009, DIN EN 1859: 2009, DIN EN 13216-1:2004

Documents - Test reports: TÜV SÜD test report no.: A 1348-00/04, dated: 28.12.2004  
- Test report: paconsult test report no.: 10-3061, dated: 30.08.2011  
- Certificate: TÜV SÜD Cert. 0036 CPD 90216 004, dated: 17.02.2010  
- Drawings of piping systems, technical data sheet of sealing material

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

Valid until 2016-09-02

File No. XI.B.03

**Germanischer Lloyd**

Hamburg, 2011-09-02

Handwritten signature of Hanspeter Raschle in blue ink.

Hanspeter Raschle

Handwritten signature of Peter Gierhat in blue ink.

Peter Gierhat

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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:

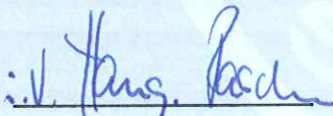
- Manufacturer's Mark • Identity Number • Nominal Diameter • GL Certificate No. •

## REMARKS / LIMITATIONS

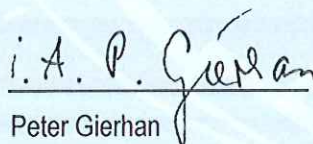
- The selection of the Exhaust Gas System for the corresponding application and the right installation are to be in accordance with the instructions of the manufacturer.

**Germanischer Lloyd**

Hamburg, 2011-09-02



Hanspeter Raschle



Peter Gierhan