

APPROVAL CERTIFICATE

This is to certify, that the undernoted products have been approved in accordance with the relevant requirements of the DNV 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	<p>TECHNICAL DATA</p> <p>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</p> <p>Insulation: Type approved pre-formed mineral fibre Min. thickness 50 mm Min. density 90 kg/m³</p> <p>Sealing Materials: Asplit (up to 600°C) Silicone (up to 200°C)</p> <p>Size range : 150 mm up to 1000 mm M.A.W.P. / M.A.W.T. : 5000 Pa / 600 °C</p> <p>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).</p>
Approval Standard	DIN EN 1856-1: 2003, DIN EN 1859: 2000, DIN EN 13216-1:2004
Documents	<ul style="list-style-type: none"> - Test reports : TÜV SÜD Test Report no.: A 1812-00/09, dated: 02.09.2009 - TÜV SÜD Audit-Report No.: Ü 1540-06/14, dated: 10.12.2014 - Drawings of piping systems, technical data sheet of sealing material and installation instructions - DNV GL:Ref.No.: 15-057610
Remarks	For penetration of fire divisions DNV GL type approved pipe penetrations are to be used.

Valid until **2020-08-20**
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Hamburg, 2015-08-13


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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 • DNV 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.

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DNV GL

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