

# 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.	<b>11 795 - 10 HH</b>
Company	<b>eka-edelstahlkamine gmbH</b> <b>Robert - Bosch - Str. 4</b> <b>95369 Untersteinach, GERMANY</b>
Product	<b>Exhaust Gas System</b>
Type	<b>complex Europ D (double wall)</b> <b>complex Europ E (single wall)</b>
Technical Data / Application	<p><b>TECHNICAL DATA</b></p> <p><b>Materials:</b> Inner pipe <b>AISI 316L/316Ti/304H (1.4404, 1.4571,1.4948)</b> Outer pipe <b>AISI 304 (1.4301), AISI 316L/316Ti (1.4404, 1.4571)</b> Thickness <b>0.6mm (minimum) outside, 1,0 mm inside</b></p> <p><b>Insulation:</b> <b>Type approved pre-formed mineral fibre</b> <b>Min. thickness 50 mm</b> <b>Min. density 90 kg/m<sup>3</sup></b></p> <p><b>Sealing Materials:</b> <b>Asplit (up to 600°C)</b> <b>Silicone (up to 200°C)</b></p> <p><b>Size range :</b> <b>150 mm up to 1000 mm</b> <b>M.A.W.P. / M.A.W.T. : 5000 Pa / 600 °C</b></p> <p><b>Range of Application:</b> <b>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).</b></p>
Approval Standard	<b>DIN EN 1856-1: 2003, DIN EN 1859: 2000, DIN EN 13216-1:2004</b>
Documents	<ul style="list-style-type: none"> <li>- Test reports : TÜV SÜD Test Report no.: A 1812-00/09, dated: 02.09.2009</li> <li>- TÜV SÜD Audit-Report No.: Ü 1540-06/14, dated: 10.12.2014</li> <li>- Drawings of piping systems, technical data sheet of sealing material and installation instructions</li> <li>- DNV GL:Ref.No.: 15-057610</li> </ul>
Remarks	<b>For penetration of fire divisions DNV GL type approved pipe penetrations are to be used.</b>

Valid until **2020-08-20**  
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File No. **XI.B.03**  
**Hamburg, 2015-08-13**

  
Olaf Drews

  
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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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