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## European Technical Assessment

**ETA 22/0591  
of 09.12.2022**

General Part

**Technical Assessment Body issuing the  
European Technical Assessment**

Österreichisches Institut für Bautechnik (OIB)  
Austrian Institute of Construction Engineering

**Trade name of the construction product**

EasySafe 160 – E  
EasySafe 160 - O

**Product family to which the construction  
product belongs**

Waste water engineering products

**Manufacturer**

Adeva GmbH  
Salztorgasse 6/4/4  
A-1010 Wien

**Manufacturing plant**

Factory 01

**This European Technical Assessment  
contains**

5 pages

**This European Technical Assessment is  
issued in accordance with regulation (EU)  
No 305/2011, on the basis of**

European Assessment Document (EAD)  
180037-00-0706 "Backwater valve kit made of  
plastics for insertion in gravity drainage systems".

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Specific part

**1. Technical description of the product**

This European Technical Assessment (ETA) applies to the backwater valve kit manufactured in two versions EasySafe 160 - E and EasySafe 160 - O.

The products EasySafe 160 - E and EasySafe 160 - O are anti-flooding devices of Type 2A according to the EAD 180037-00-0706, Cl.1.3.1, and consist of the following components: Two plastic ring castings with flapper for automatic closure with sealing rubbers (1) and small plastic fixing part (2), which are shown in Fig.1.

Color marking is used for differentiation: Blue seals for EasySafe 160 - E and red seals for EasySafe 160 - O (see Fig.1).



Figure 1 (1) Ring castings with flapper for automatic closure with sealing rubbers (2) Fixing part

Provisions for proper installation (installation manual), maintenance and repair of the products EasySafe 160 - O and EasySafe 160 - E are to be provided for each delivered kit.

**2. Specification of the intended use(s) in accordance with the applicable EAD**

The products EasySafe 160 - O and EasySafe 160 - E are to be used for the horizontal gravity drainage (sewage or faecal-free) systems of buildings according to EN 12056-1 for domestic wastewater up to temperature of 75°C.

The product EasySafe – O fits for insertion into the one-hand cleaning fitting piece made of PVC, DN 160 with an opening length of 257 mm and an opening width of 110 mm and meets the dimensions according to EN 1123-2 (Cl.5.9).

The product EasySafe - E fits for insertion into the one-hand cleaning fitting piece made of PVC, DN 160 with an opening length of 250 mm and an opening width of 150 mm and meets the dimensions according to EN 1123-2 (Cl.5.9).

The provisions made in this European Technical Assessment are based on a working life of the kit of 25 years (equivalent to Products to EAD 180008-00-0704), provided that the kit is subject to appropriate use and maintenance as specified by the manufacturer in the maintenance instructions provided for every delivered kit. The indications given on the working life cannot be interpreted as a guarantee given by the producer or the Technical Assessment Body, but are to be regarded only as a means for choosing the right product in relation to the expected economically reasonable working life of the works.

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**3. Performance of the product and references to the methods used for its assessment**

**3.1 Performance of the product**

Table 1 Performance of the product in relation to the essential characteristics

| Basic requirements for construction works                             | Essential characteristic   | Method of assessment | Performance       |                |
|---|--|----------------------|-------------------|----------------|
| <b>Basic Work Requirements 3: Hygiene, health and the environment</b> |  |                      |                   |                |
| 1   | <b>Water-tightness</b><br>(including gas-tightness)  | EAD,<br>Cause 2.2.1  | <b>Watertight</b> |                |
| 2   | <b>Efficiency</b> <ul style="list-style-type: none"> <li>• Self-closure</li> <li>• Self-opening</li> <li>• Pressure tightness</li> <li>• Channel bottom consistency</li> <li>• Permanent-closure in case of backwater</li> </ul> | EAD,<br>Cause 2.2.2  | <b>Efficient</b>  |                |
|   |  |                      | <b>i (cm/m)</b>   | <b>Q (l/s)</b> |
|   |  |                      | <b>0,5</b>        | <b>6,0</b>     |
|   |  |                      | <b>2,0</b>        | <b>12,1</b>    |
|   | • Maximal discharge  | EAD,<br>Cause 2.2.2  | <b>5,0</b>        | <b>19,1</b>    |
| 3   | <b>Durability</b> <ul style="list-style-type: none"> <li>• Temperature resistance</li> <li>• Mechanical stability</li> </ul>   | EAD,<br>Clause 2.2.3 | <b>Durable</b>    |                |

**4. Assessment and verification of constancy of performance (hereinafter AVCP) system applied, with reference to its legal base**

According to the decision 2015/1959 of the European Commission<sup>1</sup>, the system of assessment and verification of constancy of performance (see Annex V of Regulation (EU) No 305/2011) is 4, except for uses subject to regulations on reaction to fire.

**5. Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD**

Technical details necessary for the implementation of the AVCP system are laid down in the Control plan deposited by the Technical Assessment Body Austrian Institute of Construction Engineering.

Issued in Vienna on 09.12.2022

by Österreichische Institut für Bautechnik

The original document is signed by:

Rainer Mikulits  
Managing Director

<sup>1</sup> Official Journal of the European Communities L 268/29 of 10.11.1995

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## ANNEX A – REFERENCE DOCUMENTS

|                          |   |
|--------------------------|---|
| EAD 180037-00-0706       | Backwater valve kit made of plastics for insertion in gravity drainage systems  |
| EAD 180008-00-0704       | Trapped gully - removable - mechanical closure  |
| EN 12056-1:2000          | Gravity drainage systems inside buildings - Part 1: General and performance requirements  |
| EN 1123-2:2006 + A1:2007 | Pipes and fittings of longitudinally welded hot-dip galvanized steel tube with spigot and socket for waste water systems - Part 2: Dimensions |

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