

Approval body for construction products  
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and  
Laender Governments



## European Technical Assessment

ETA-17/0956  
of 11 April 2018

English translation prepared by DIBt - Original version in German language

### General Part

Technical Assessment Body issuing the  
European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

HauffAccessories ablative coating HA-AC

Product family  
to which the construction product belongs

Ablative fire stopping product used in penetration seals

Manufacturer

Hauff-Technik GmbH & Co. KG  
Robert-Bosch-Straße 9  
89568 Hermaringen  
DEUTSCHLAND

Manufacturing plant

Werk A

This European Technical Assessment  
contains

12 pages including 8 annexes which form an integral part  
of this assessment

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

EAD 350454-00-1104

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## Specific Part

### 1 Technical description of the product

The construction product "HauffAccessories ablative coating HA-AC" is an ablative fire stopping product. It is provided in the form of a white or grey liquid.

In case of fire, the construction product forms a protective layer on the surfaces to be protected. The protective layer either consumes energy or releases matter through chemical or physical processes. The protective layer thus prevents the passage of heat, flames and/or smoke.

A detailed technical description of the fire safety related performance criteria in relation to the construction product is given in Annex 1.

NOTE:

The characteristics listed are suitable both for identifying the construction product as well as for performing the manufacturer's factory production control.

### 2 Specification of the intended use in accordance with the applicable European Assessment Document

The construction product "HauffAccessories ablative coating HA-AC" is intended for use as a component with a fire protection effect in penetration seals that are subject to fire safety requirements. In the event of fire, its reactive effect helps prevent the passage of heat and the spread of fire.

Construction products for penetration seals are used to seal openings in fire-resistant floors and walls, which are penetrated by services.

This ETA served to verify the resistance to fire of penetration seals consisting of the products listed in Annex 1.

Their function is to preserve the walls' or floors' resistance to fire in the area of openings where services were fed through.

More detailed information and data on the verified penetration seals are given in Annexes 2 to 8.

The construction product "HauffAccessories ablative coating HA-AC" may be used for penetration seals intended for outdoor use (rain, UV light, frost; use category type X).

The performance data in Section 3 relates only to the penetration seals tested as part of this assessment (e.g. regarding the design and arrangement of the penetration seal components and the type and position of the services).

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

#### 3.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	Class E in accordance with EN 13501-1
Resistance to fire of a penetration seal containing the product	The resistance to fire depends on the design and installation of the penetration seal and on the other components forming the penetration seal. More details on the tested penetration seals and the related fire resistance classes are given in Annexes 1 to 8.

**3.2 Hygiene, health and the environment (BWR 3)**

Content and release of dangerous substances	No dangerous substances <sup>1</sup>
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**4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base**

In accordance with EAD No. 350454-000-1104 the applicable European legal act is: 1999/454/EC.

The system to be applied is: system 1.

**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 test plan (control plan) deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 11 April 2018 by Deutsches Institut für Bautechnik

Prof. Gunter Hoppe  
Head of Department

*beglaubigt:*  
Bisemeier

<sup>1</sup> In accordance with Regulation (EC) No 1272/2008 of the European Parliament and the European Council of 16 December 2008 (published in the Official Journal of the European Communities L 353 of 31 December 2008, p. 1)

The factory manufactured construction product "HauffAccessories ablative coating HA-AC" is an ablative fire stopping product. It is provided in the form of a white or grey liquid.

**Properties and performances criteria of the construction product  
"HauffAccessories ablative coating HA-AC"\***

	Property/ Performance criteria	Parameter	Test method
1	Density	1410 g/l ± 70 g/l	EN ISO 2811-1
2	Nonvolatile components	66,0 % bis 86,0%	EN ISO 3251
3	Loss mass on heating	38,0 % bis 48,0 %	EN ISO 3451-1/EOTA TR 24 (2009) on 400°C over 30 Minutes
4	LOI	55,0 % ± 3 %	ISO 4589 Sample thickness ca. 1,5 mm
5	Flexibility of the coating	≥ 5 mm	EN ISO 1519 Sample thickness ca. 1,5 mm
6	Fire behavior	Klasse E	EN ISO 11925-2

The properties listed can be used both for the identification of the construction product and for the implementation of the factory production control of the manufacturer.

Implementation details for the factory production control are included in the inspection plan.

\* The composition of the materials is deposited at DIBt.

**Description of the additional ingredients of the tested sealings**

Soffit of the opening	Gypsum plasterboard acc. to EN 520, Typ F thickness: 12,5 mm Classification of fire behavior acc. to EN 13501-1: Class A1
Sealing of the residual opening	Loose mineral wool "RL", Deutsche Rockwool Mineralwoll GmbH, 45866 Gladbeck, Germany; EN 14303 Classification of fire behavior acc. to EN 13501-1: Class A1
Mineral fibreboards	Hardrock 040, Deutsche Rockwool Mineralwoll GmbH & Co. OHG, 45866 Gladbeck, Germany; EN 13162:2012+A1:2015 thickness: 60 mm Classification of fire behavior acc. to EN 13501-1: Class A1

HauffAccessories ablative coating HA-AC

Description of the construction product, properties and performances

Annex 1

**Performances of tested penetration seals, comprising the construction product  
"HauffAccessories ablative coating HA-AC"**

	Wesentliches Merkmal	Prüfverfahren	Aufbau des Probekörpers	Leistung gem. EN 13501-2
1	Resistance to fire	EN 1366-3	100 mm thick flexible wall; design and layout of the penetration seal according to Annex 3*	EI 60
2	Resistance to fire	EN 1366-3	125 mm thick rigid floor; design and layout of the penetration seal according to Annex 3*	EI 90
3	Resistance to fire	EN 1366-3	100 mm thick flexible wall; design and layout of the penetration seal according to Annex 8*	EI 60
4	Resistance to fire	EN 1366-3	125 mm thick rigid floor; design and layout of the penetration seal according to Annex 8*	EI 90

\* Illustrations without guarantee for completeness

The use of the construction product "HauffAccessories ablative coating HA-AC" in penetration seals shall be in accordance with national requirements for planning, design and execution and in accordance with the installation instruction of the manufacturer.

The tested/ illustrated seals are only examples for the use.

HauffAccessories ablative coating HA-AC

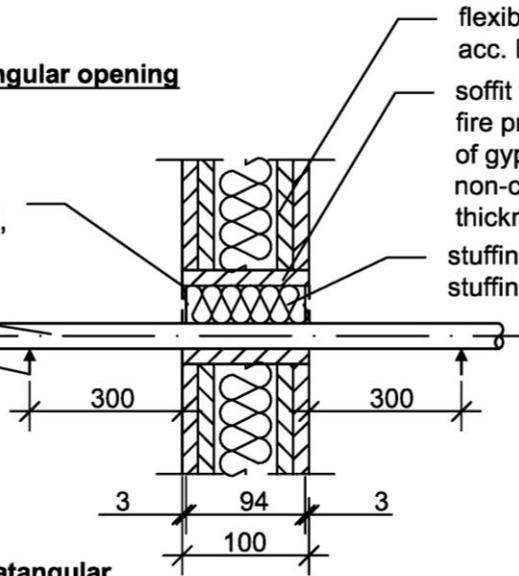
Description of the construction product, properties and performances

Annex 2

**wall construction rectangular opening  
350 x 150 mm (w x h)**

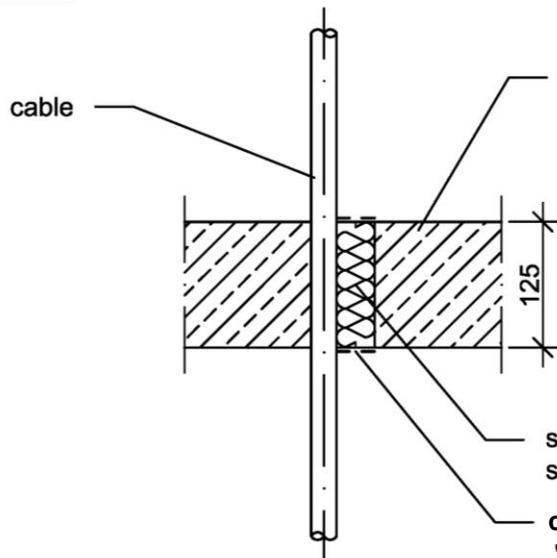
coating with  
"HauffAccessories  
ablative coating HA - AC",  
3 mm thickness

cable  
first support in  
front of the wall



flexible wall  
acc. EN 1366-3; EI 90 (EN 13501-2)  
soffit with  
fire protection board  
of gypsum plasterboard,  
non-combustible,  
thickness 12.5 mm; Type F acc. EN 520  
stuffing with mineral wool  
stuffing density 175 - 225 kg/m³

**floor construction rectangular  
opening 350 x 150 mm**



rigid floor acc. EN 1366-3;  
concrete,  
 $\rho = 2200 \pm 500 \text{ kg/m}^3$ ; EI 90 (EN 13501-2)  
125 mm thickness

stuffing with mineral wool  
stuffing density 175 - 225 kg/m³

coating with  
"HauffAccessories  
ablative coating HA - AC",  
3 mm thickness

cable	designation	insulation/ sheath material	Standard	Ø [mm]
A1	NYJ-J 5x1,5 RE	PVC/PVC	HD 603.3G	13,2
A2	H 07 RN-F 5G1,5	EPR/PO	HD 22.4	11,4
A3	N2XH-J 5x1,5 RE	XLPE/EVA	HD 604,5G	11,5
B	NYJ-J x 95 RM	PVC/PVC	HD 603.3G	19,2

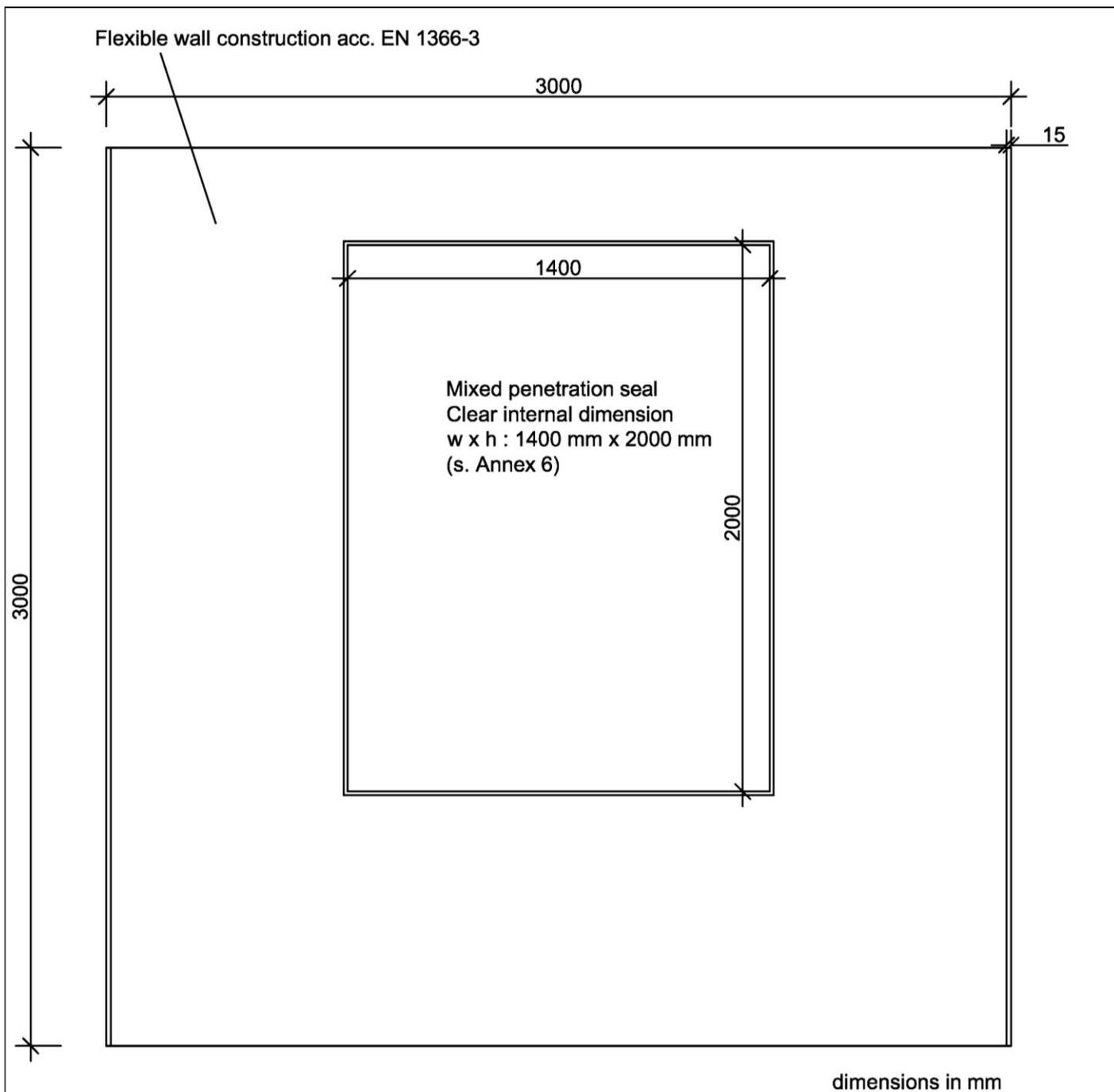
(cable in accordance with EN 1366-3:2009, Table A1)

dimensions in mm

HauffAccessories ablative coating HA-AC

Use as a part of cable penetration seal with the fire resistance class EI 60 (wall installation) respectively EI 90 (floor installation)

Annex 3



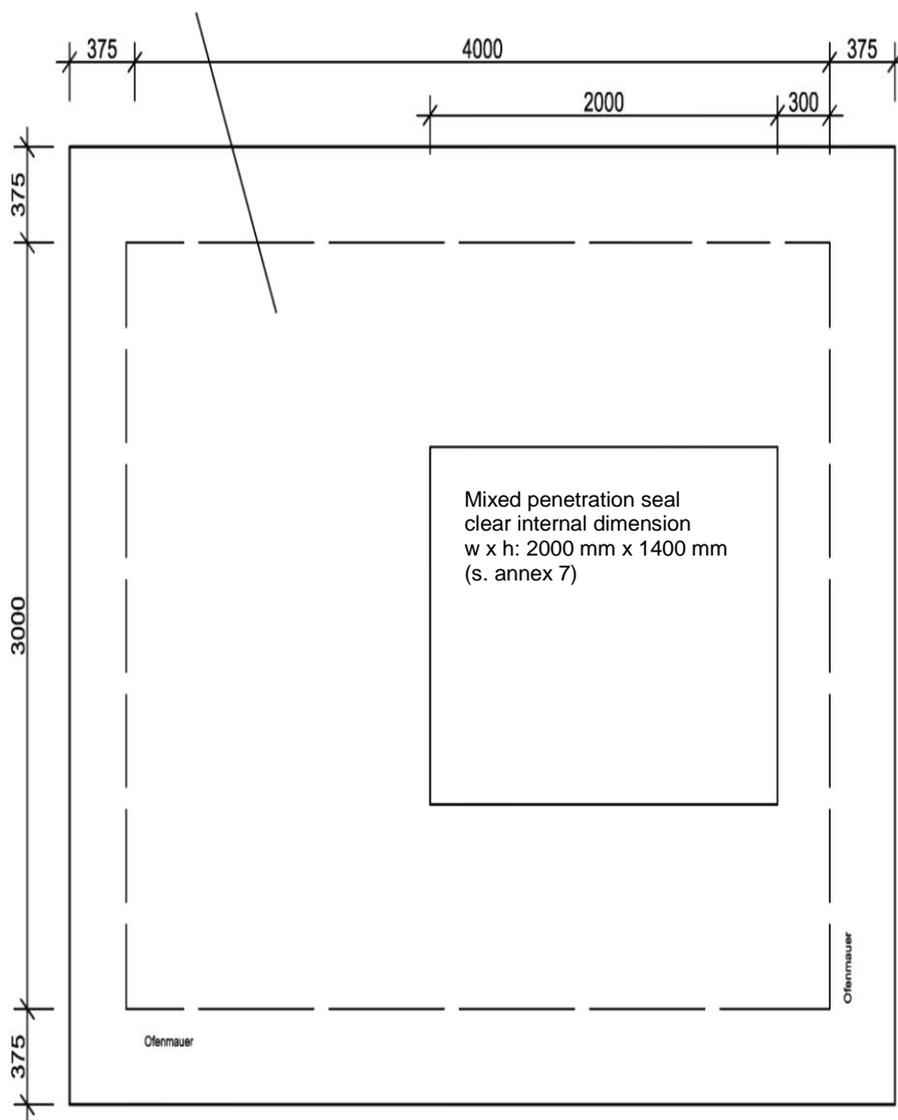
electronic copy of the eta by dibt: eta-17/0956

HauffAccessories ablative coating HA-AC

View of a mixed penetration seal with the fire resistance class EI 60 installed in a flexible wall construction acc. to EN 1366-3

Annex 4

**Rigid floor construction acc. to EN 1366-3**



dimensions in mm

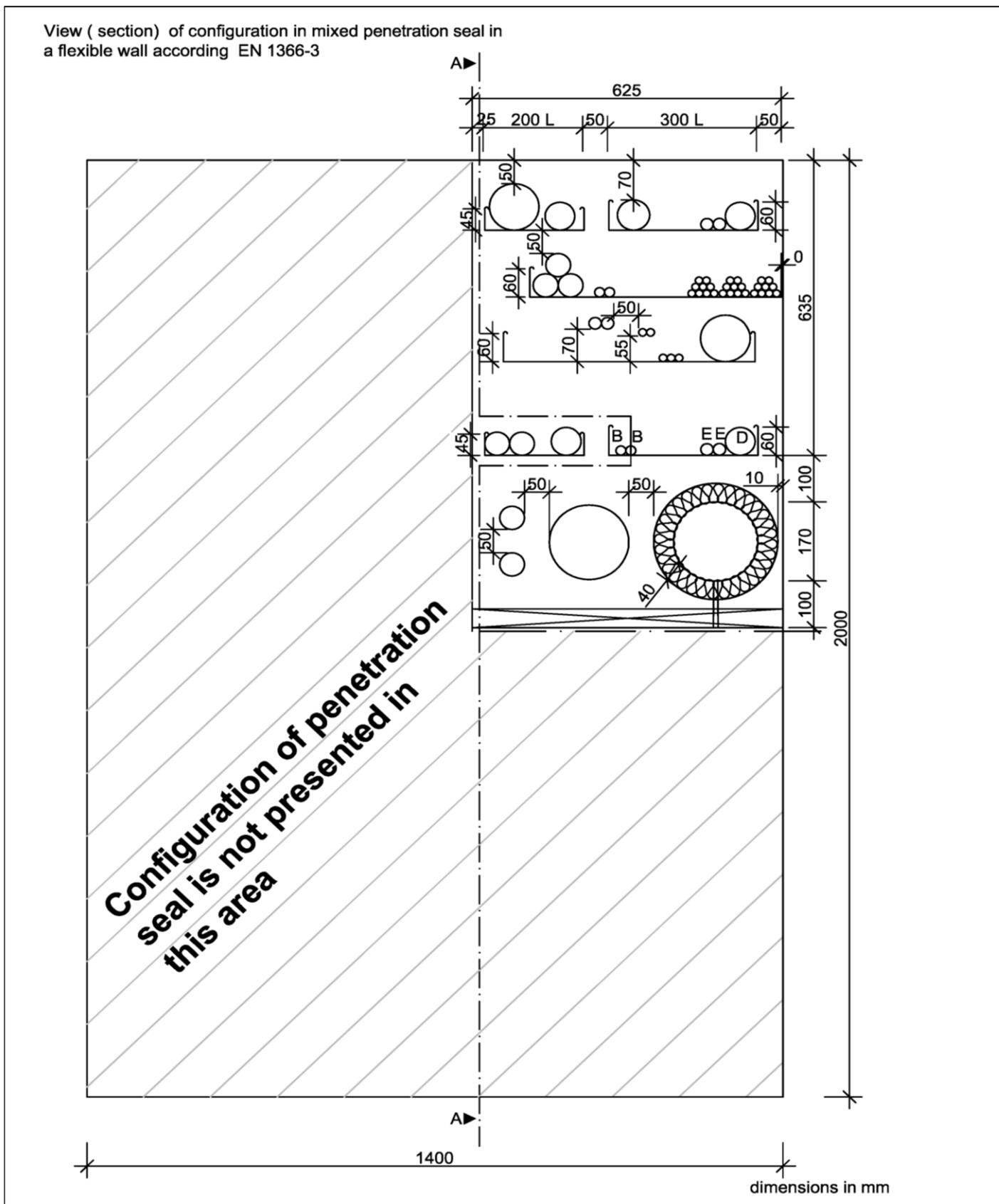
electronic copy of the eta by dibt: eta-17/0956

HauffAccessories ablative coating HA-AC

View of a mixed penetration seal with the fire resistance class EI 60 installed in a rigid floor construction acc. to EN 1366-3

Annex 5

English translation prepared by DIBt



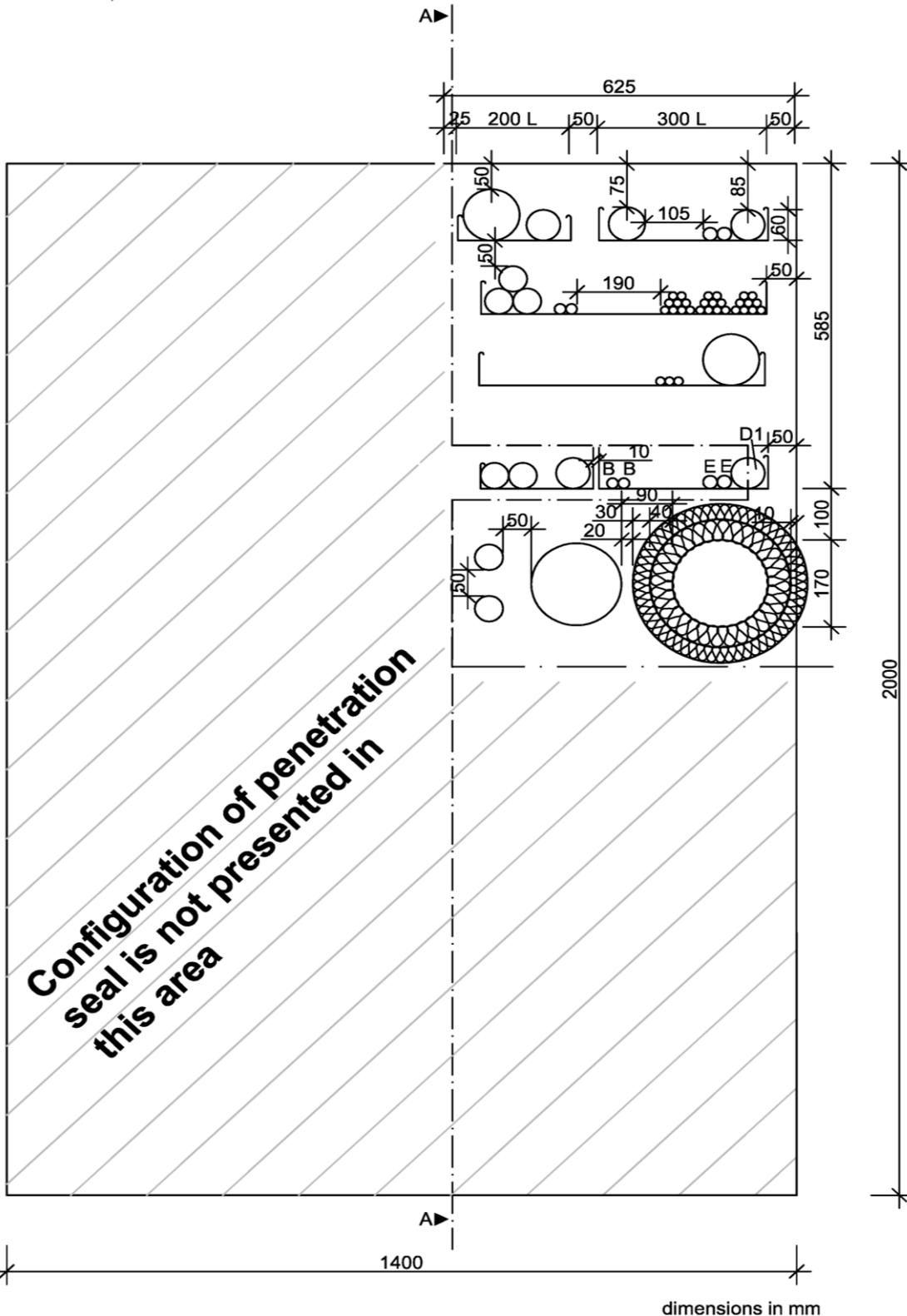
HauffAccessories ablative coating HA-AC

View (section) of the configuration of a mixed penetration seal with the fire resistance class EI 60 installed in a flexible wall construction in acc. to EN 1366-3

Annex 6

English translation prepared by DIBt

View (section) of configuration in mixed penetration seal in a concrete floor, 150 mm thickness acc. EN 1366-3



HauffAccessories ablative coating HA-AC

View (section) of the configuration of a mixed penetration seal with the fire resistance class EI 60 installed in a rigid floor construction in acc. to EN 1366-3

Annex 7

English translation prepared by DIBt

**wall construction**

Section A - A

**cable coating**

"HauffAccessories  
ablative coating **HA - AC**"  
dry film thickness 2 mm

cable

cable support

flexible wall acc. EN 1366-3

mineral fibre boards  
Type "Hardrock 040"  
coated with "HauffAccessories  
ablative coating **HA - AC**"  
dry film thickness 1 mm  
annular gap stuffed with loose  
wool and sealed with  
"HauffAccessories ablative  
coating **HA - AC**"  
width 2 - 50 mm, t = 3 - 4 mm

**floor construction**

Section A - A

annular gap stuffed  
with loose wool and  
sealed with  
"HauffAccessories  
ablative coating **HA - AC**"  
width 2 - 50 mm

first support

rigid floor,  
concrete  
 $\rho = 550 \text{ kg/m}^3$   
150 mm thickness

cable coating with  
"HauffAccessories  
ablative coating **HA - AC**"  
dry film thickness 2 mm

cable

mineral fibre boards  
Type "Hardrock 040",  
coated with "HauffAccessories  
ablative coating **HA - AC**"  
dry film thickness  $\geq 1 \text{ mm}$

Cable	Designation	Insulation/ sheath material	Standard	Ø [mm]
D1	NYCWY 4 x185 SM/95	PVC	-	57
B	NYO 1 x95 PM	PVC	-	19
E	NYJ 1x185 RM	PVC	-	25

(cable in accordance with EN 1366-3:2009, Table A1)

dimensions in mm

HauffAccessories ablative coating HA-AC

Use as a part of cable penetration seal with the fire resistance class EI 60

Annex 8