



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-17/0550 of 19 December 2019

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:

Trade name of the construction product

Product family to which the construction product belongs

Manufacturer

Manufacturing plant

This European Technical Assessment contains

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

This version replaces

Deutsches Institut für Bautechnik

"Dichtblech VB"

Coated metal water stop sheet for construction and controlled crack joints

MASTERTEC GmbH & Co. KG Im Maintal 13 96173 Oberhaid DEUTSCHLAND

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10 pages including 5 annexes which form an integral part of this assessment

EAD 320002-02-0605

ETA-17/0550 issued on 26 October 2017

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Specific part

1 Technical description of the product

The water stop "Dichtblech VB" consists of the following components:

- Galvanized metal sheet with the dimensions:
 - h = 80 mm, t = 0.6 mm
 - h = 120 mm, t = 0.6 mm
 - h = 160 mm, t = 0.6 mm / t = 0.8 mm / t = 1.0 mm
 - h = 240 mm, t = 0.6 mm
- coating on the basis of a thermoplastic elastomer

The metal sheet is fully coated with a thermoplastic elastomer coating. The thickness of the coasting is approximately \geq 0.14 mm.

For installation purposes the water stop is delivered with a protective foil on the coating. Furthermore there are holders for fixing the water stop during installation and clamps for fixing the overlapping joint between the ends of the water stop.

There are the following types of products:

Product	Coated side	Thickness (t)	for use
Dichtblech 80 VB	single	0.6	Working joint/
Dichtblech 120 VB			construction joints
Dichtblech 160 VB			
Dichtblech 240 VB			
Dichtblech 80 VB	double		
Dichtblech 120 VB			
Dichtblech 160 VB			
Master-Dichtblech Premium			
Dichtblech 240 VB			
Abschalelement ABS, raue Fuge		1.0	Working joint
Abschalelement ABS, Verzahnte Fuge			
SRF 125		0.8	Controlled crack
SRF 125 Multi			joints in in-situ concrete

Annex A shows the principles and performances of the product and furthermore the different types of products.

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

The water stop is used to seal joints in constructions made of concrete with high resistance to water (watertight concrete) against the penetration of pressing and un-pressing water (e.g. ground water) and to soil moisture.



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There are the following scenarios of intended use:

- a) Construction joints
- b) Controlled crack joints for the use in in-situ concrete

The performances given in Section 3 are only valid if the water stop is used in compliance with the specifications and conditions given in Annex B.

The verifications and assessment methods on which this European Technical Assessment is based lead the assumption of working life of the water stop of 50 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

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	See Annex A1

3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance	
Watertightness in end use conditions	See Annex A1	
Bondstrength at state of delivery	See Annex A1	
Bondstrength after heat aging	See Annex A1	
Volatile compounds (Lost of weight)	See Annex A1	

3.4 General aspects

The verification of durability and serviceability is part of testing the essential characteristics. Durability and serviceability are only ensured if the specifications of intended use according to Annex B and the specifications of the technical documents of the manufacturer¹ are kept.

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

In accordance with EAD number 320002-02-0605 the applicable legal act is: 1999/90/EC

The system to be applied is: 3

In addition, with regard to reaction to fire for products covered by this EAD the applicable European legal act is: 2001/586/EC

The system to be applied is: 3

1

The manufacturer's technical documents comprises all information necessary for the production and the installation of the product as well as for repair of the roof waterproofing made from that and it is deposited with DIBt.



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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 with Deutsches Institut für Bautechnik.

Issued in Berlin on 19 December 2019 by Deutsches Institut für Bautechnik

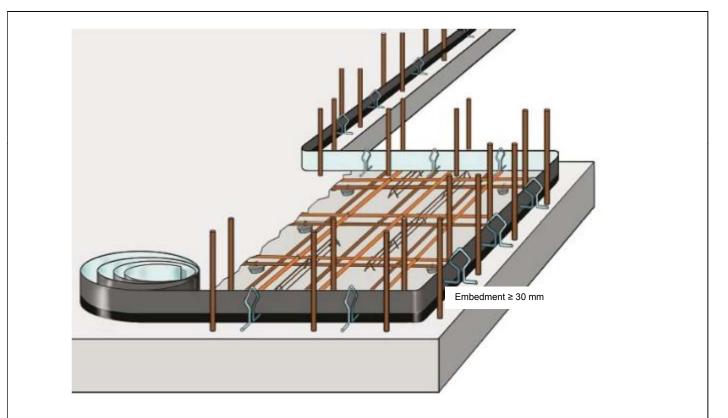
BD Dipl.-Ing. Andreas Kummerow Head of Department

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Coated metal water stop "Dichtblech VB" - single or double coated - for construction joints

Reaction to fire acc. to EN 13501-1	Class E	
Use category related to BWR 3	S/W 2	
Watertightness in end use condition	ns	
Dichtblech 80 VB1/VB2 'Dichtblech 120 VB1/VB2	Up to 16 m	
Dichtblech 160 VB1/VB2 Master-Dichtblech Premium Dichtblech 240 VB1/VB2 Stopend panels ABS, rough joint Stopend panels ABS, toothed joint SRF 125 SRF 125 Multi	Up to 20 m	
Bondstrength at the state of delivery	> 0.20 N/mm ²	
Bondstrength after heat aging	pass (< 20 %)	
Volatile compounds	pass (< 3 %)	

Performance of the product:

"Dichtblech VB" Mastertec GmbH & Co. KG

System built-up, use categories and performances of the product

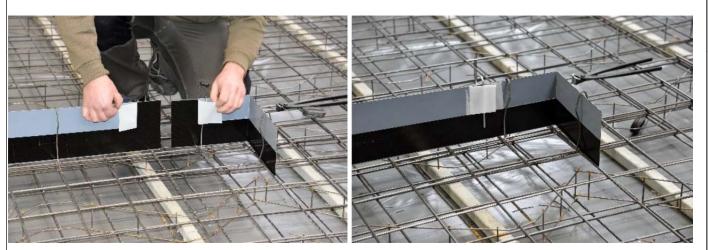
Annex A1

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Types of Product	Coated	t	h	1	Use scenario
	sides	[mm]	[mm]	[m]	
Dichtblech 80 VB1	1	0.6	80		construction joints
Dichtblech 120 VB1	1	0.6	120	ഗ	
Dichtblech 160 VB1	1	0.6	160	ength	
Dichtblech 240 VB1	1	0.6	240	ferent	
Dichtblech 80 VB2	2	0.6	80	flat and coil in different lengths	construction joints
Dichtblech 120 VB2	2	0.6	120	and	
Dichtblech 160 VB2	2	0.6	160	flat	
Master-Dichtblech Premium	2	0.6	160		
Dichtblech 240 VB2	2	0.6	240		
Stopend panels ABS, rough joint	2	1.0	160		
Stopend panels ABS, toothed joint	2	1.0	160	1 – 5	
SRF 125	2	1.0	160]	controlled crack joints
SRF 125 Multi	2	0.8	160		in in-situ concrete

Overlap:



"Dichtblech VB" Mastertec GmbH & Co. KG

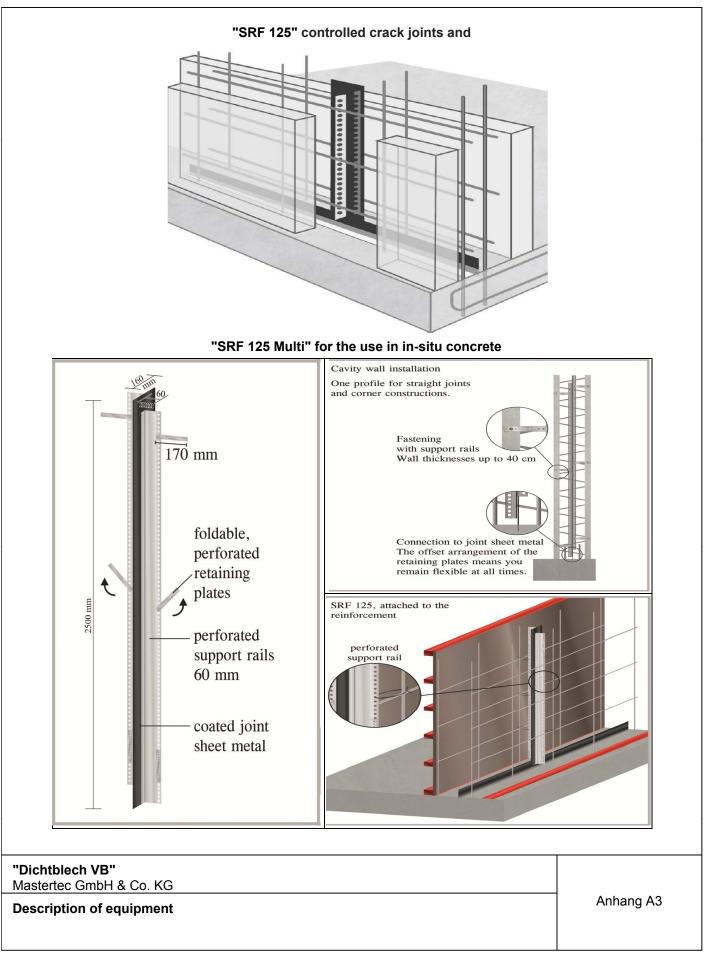
Description of equipment

Annex A2

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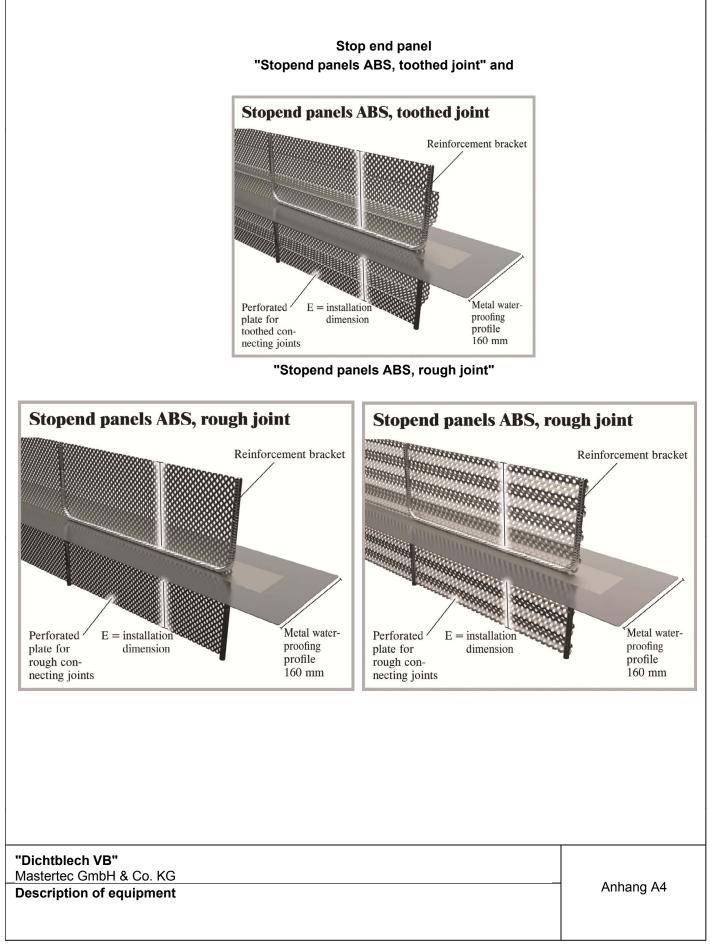




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Installation

The performance of the waterproofing product can be assumed only, if the installation is carried out according to the installation instructions stated in the technical file of the manufacturer, in particular taking account of the following points:

- Installation by appropriately trained personnel
- Installation of only those components which are specified as components of the products
- Installation with the required tools
- Inspecting the substrate surface and the joint surface for cleanliness and correct treatment
- During storage and installation the water stop must be protected from excessive warming.
- The water stop is generally located in the center of the construction joints respectively crack control sections.
- The embedment in the concreting steps must be at least 30 mm.
- The distance between water stop and the adjacent construction components must be at least two to three times of maximum grain size.
- The water stop has to be attached with variable retaining clips on or at the reinforcement. During concreting the water stop should not move and should not float.
- The overlapping between the water stops is at least 60 mm. After removing the protective foil, the water stops are pressed tightly together. Finally, overlapping has to be secured with the joint clips.
- The protective foil should be removed just before concreting, because the coating has to be protected from pollution. The second part of the protection foil has to be removed earliest after the concreting of the first concreting step.
- Inspecting of position and fixing of the water stop during installation and of the finished installed water stop respectively after the 1. concrete step and documentation of the results.

"Dichtblech VB" Mastertec GmbH & Co. KG

Intended use Specifications Annex B