

ⓐ Cavity Wall Tie

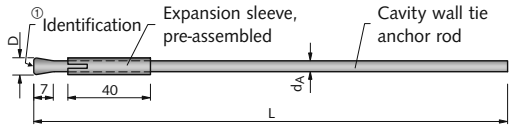
ⓓ Luftschicht-
Einschlaganker



Assembly Instructions • Montageanleitung

Identification

HEA Cavity wall ties are officially approved for connecting facing brickwork to concrete support walls. Approval no. Z-21.1-910, (DIBt* Berlin, Germany), concrete grade $\geq C20/25$.



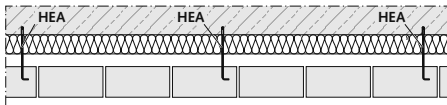
All components are made of stainless steel for a durable, safe anchorage. Material class A (non-flammable) acc. to DIN 4102, therefore suitable for structures with high demands on fire protection.

DIBt* = Deutsches Institut für Bautechnik
German Institute of Construction Engineering

HEA identification



Schematic diagram of a HEA installation; horizontal cross section of a façade:



- ← Load bearing wall, concrete $\geq C20/25$
- ← Cavity including insulation
- ← Facing brickwork

Type range, specifications

Cavity wall tie	D	Cavity	Drill hole diameter × depth	Stop-drill-bit type	Insertion tool type	Spacings and building component thickness [cm]			
						d	a	a _r	
Type L/d _A [mm]	[mm]	a [mm]	[mm]					Concrete $\geq C20/25$	
HEA - 160/4	6	0-45 mm	6 × 42	HEA-BB4	HEA-EW4	≥ 10	≥ 18	≥ 9	
HEA - 200/4	6	45-85 mm							
HEA - 250/4	6	85-135 mm							
HEA - 300/4	6	135-185 mm	7 × 42	HEA-BB5	HEA-EW5				
HEA - 200/5	7	45-85 mm							
HEA - 250/5	7	85-135 mm							
HEA - 300/5	7	135-185 mm							

Tools

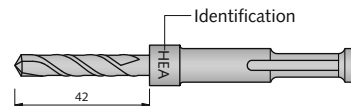
Insertion tool

HEA	EW 4	EW 5
For cavity wall tie diameter d _A [mm]	4	5



Stop-drill-bit SDS

HEA	BB 4	BB 5
Drill-bit, nominal diameter [mm]	6	7
Drill-bit, cut diameter [mm]	≤ 6.40	≤ 7.45

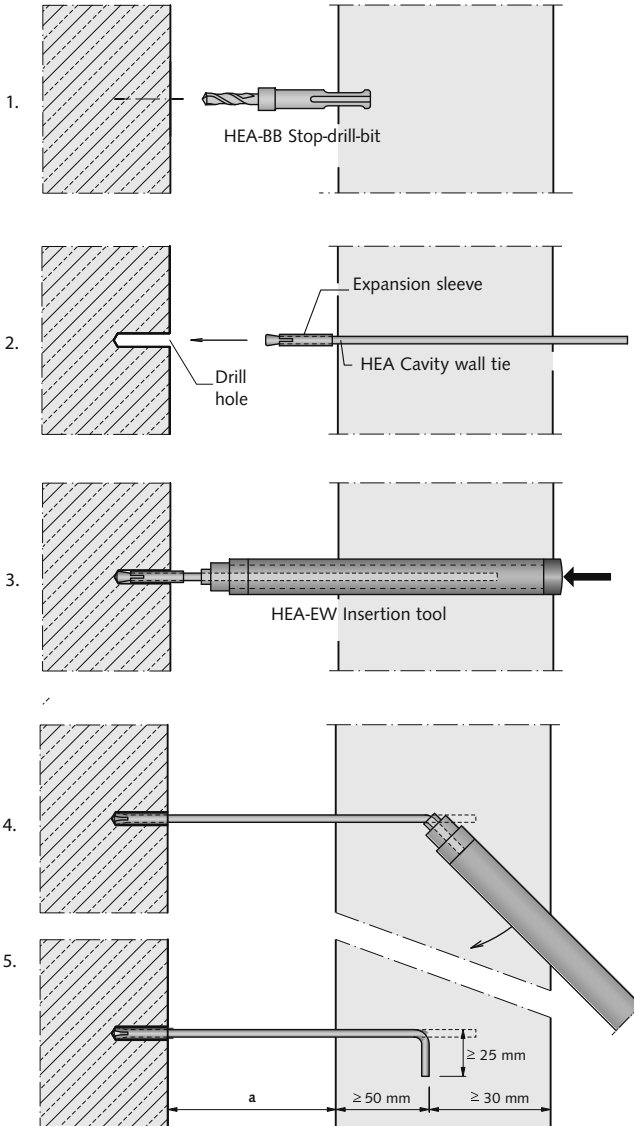


Dimensions in mm

Installation

Load bearing
concrete \geq C20/25

Facing brickwork

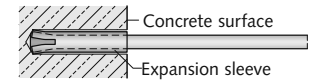


1. Hole diameter 6×42 mm or 7×42 mm drilled using the HEA-BB4 (BB5) Stop-drill-bit. Clean any dust etc. out of the drilled hole.

2. If supplied separately, first slide the expansion sleeve on the HEA Anchor rod as shown in the drawing.

Insert the HEA Cavity wall tie with the expansion sleeve in place into the drilled hole.

3. Using a hammer and the HEA- EW4 (EW5) Insertion tool, drive the expansion sleeve into the drill hole until the end of the sleeve is flush with the concrete surface.




4. Bend the end of the HEA Cavity wall tie to an angle of 90° and ...

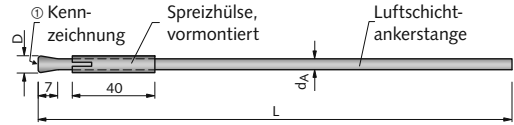
5. ... mortar into the brickwork joint.

Kennzeichnung

HEA Luftschicht-Einschlaganker sind bauaufsichtlich zugelassen, Zulassung Nr. Z-21.1-910 DIBt, für die Verankerung von Verblendmauerwerk gem. EC6 an Wänden aus Beton \geq C20/25.



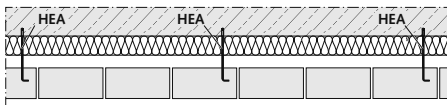
Alle Komponenten sind aus rostfreiem Edelstahl für eine dauerhaft sichere Verbindung. Baustoffklasse A nach DIN 4102, dadurch auch geeignet für Bauteile, an die besondere Anforderungen hinsichtlich des Brandschutzes gestellt werden.



① Kennzeichnung HEA

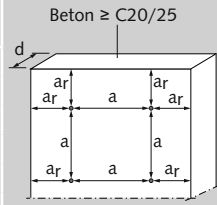


Schemadarstellung für Einbau HEA, Fassadenschnitt waagrecht



- ← Tragkonstruktion, Beton \geq C20/25
- ← Luftschicht einschließlich Dämmung
- ← Verblendmauerwerk

Typenauswahl, technische Daten

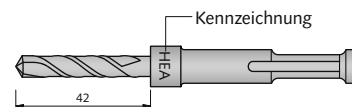
Einschlaganker Typ L/d _A [mm]	D [mm]	Abstand zwischen Betonschale und Verblendmauerwerk a [mm]	Bohrloch Ø × Tiefe [mm]	Bundbohrer Typ	Einschlag- werkzeug Typ	Abstände und Bauteildicke [cm]			
						d	a	ar	
HEA - 160/4	6	0-45 mm	6 × 42	HEA-BB4	HEA-EW4	≥ 10	≥ 18	≥ 9	
HEA - 200/4	6	45-85 mm							
HEA - 250/4	6	85-135 mm							
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HEA - 250/5	7	85-135 mm							
HEA - 300/5	7	135-185 mm							

Werkzeuge

Einschlagwerkzeug		
Typ HEA	EW 4	EW 5
für Luftschicht-Einschlaganker Ø d _A [mm]	4	5

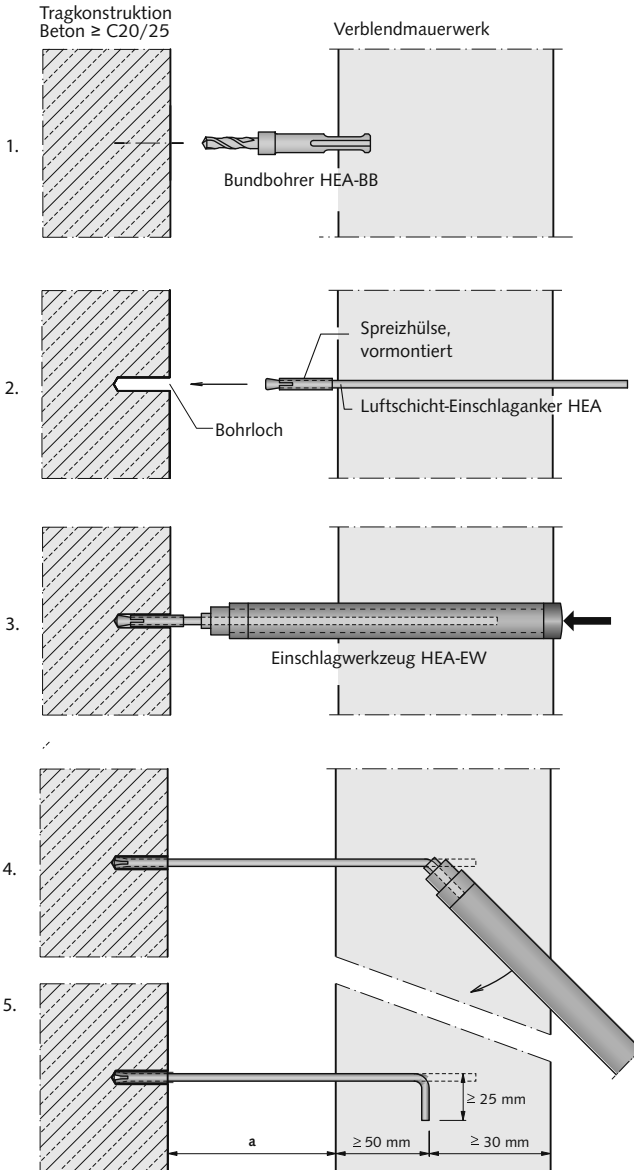


Bundbohrer		
Typ HEA	BB 4	BB 5
Bohrer Nenndurchmesser [mm]	6	7
Bohrer Schneidendurchmesser [mm]	≤ 6,40	≤ 7,45



Maße in mm

Montage

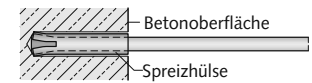


1. Loch $\varnothing 6 \times 42$ mm bzw. 7×42 mm mit Bundbohrer HEA-BB4 bzw. -BB5 bohren. Bohrloch säubern.

2. Wenn lose mitgeliefert, vorher Sprezhülse auf die HEA-Luftschichtankerstange gemäß Skizze aufschieben.

HEA-Luftschicht-Einschlaganker mit vormontierter Sprezhülse mit dem konisch geformten Ende in das Bohrloch einsetzen.

3. Mit einem Hammer und dem Einschlagwerkzeug HEA-EW4 bzw. -EW5 die Sprezhülse in das Bohrloch eintreiben, bis Hülsende mit Betonoberfläche bündig abschließt.



4. Das Ende des HEA-Luftschicht-Einschlagankers um 90° abwinkeln und ...

5. ... in der Mauerwerksfuge einmörteln.

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