

HALFEN HEA

INST_HEA 06/20

EN Cavity Wall Tie

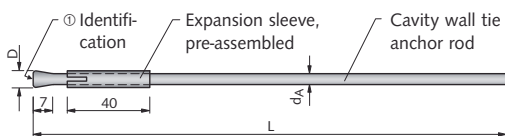
DE Luftschicht-
Einschlaganker



Assembly Instructions • Montageanleitung

Identification

HEA Cavity wall ties are officially approved for connecting facing brickwork to concrete support walls. General construction permit/national technical approval 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.

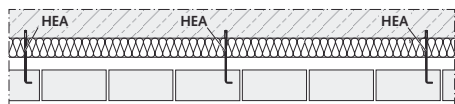
DIBt* = Deutsches Institut für Bautechnik.
German Institute of Construction Engineering

HEA identification



acc. EN 845-1

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

Tools

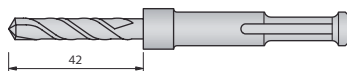
Insertion tool

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



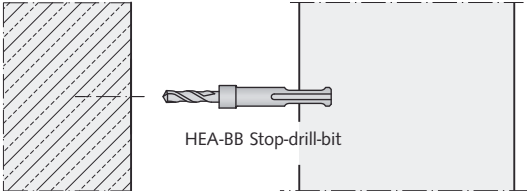
Stop-drill-bit SDS

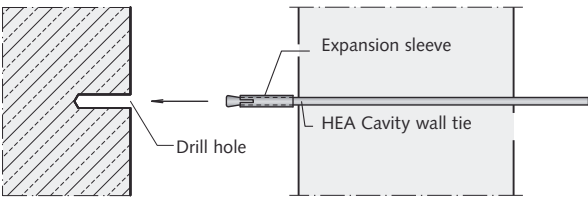
HEA	BB 4	BB 5
Drill-bit, nominal diameter [mm]	6	7
Drill-bit, cut diameter [mm]	≤ 6.40	≤ 7.45



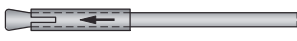
Dimensions in mm

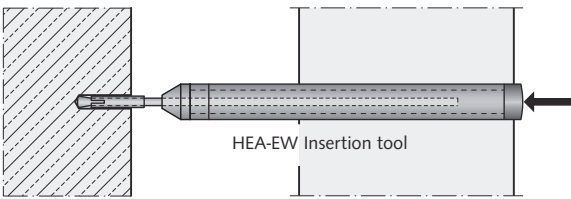
Installation

- Load bearing concrete \geq C20/25
- Facing brickwork
- 

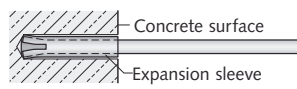
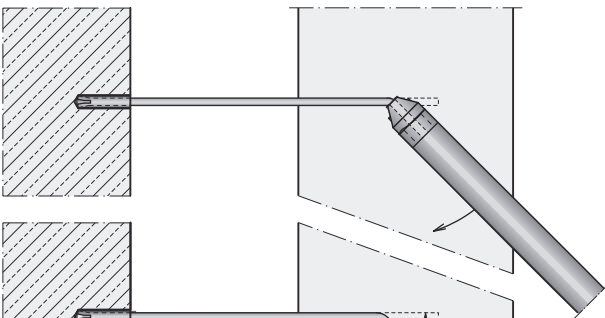
1. Hole diameter 6×42 mm or 7×42 mm drilled using the HEA-BB4 (-BB5) Stop-drill-bit. Clean any dust etc. out of the drilled hole.
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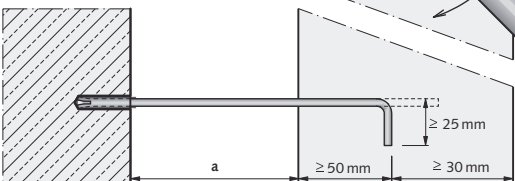
2. If supplied separately, first slide the expansion sleeve on the HEA Anchor rod as shown in the drawing.



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


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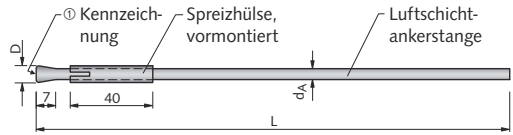
4. Bend the end of the HEA Cavity wall tie to an angle of 90° and ...
 - 

5. ... mortar into the brickwork joint.

horizontal cross section

Kennzeichnung

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



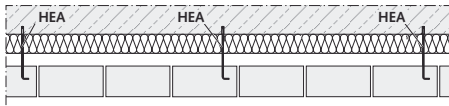
Alle Komponenten sind aus rostfreiem Edelstahl für eine dauerhaft sichere Verbindung.

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 \varnothing × Tiefe [mm]	Bund- bohrer Typ	Einschlag- werkzeug Typ	Abstände und Bauteildicke [cm]			
						d	a	a _r	
HEA - 160/4	6	0–45	6 × 42	HEA-BB4	HEA-EW4	≥ 10	≥ 18	≥ 9	
HEA - 200/4	6	45–85							
HEA - 250/4	6	85–135							
HEA - 300/4	6	135–185	7 × 42	HEA-BB5	HEA-EW5	≥ 10	≥ 18	≥ 9	
HEA - 200/5	7	45–85							
HEA - 250/5	7	85–135							
HEA - 300/5	7	135–185							

Werkzeuge

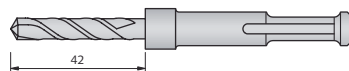
Einschlagwerkzeug

Typ HEA	EW 4	EW 5
für Luftschicht-Einschlaganker \varnothing d _A [mm]	4	5



Bundbohrer SDS

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

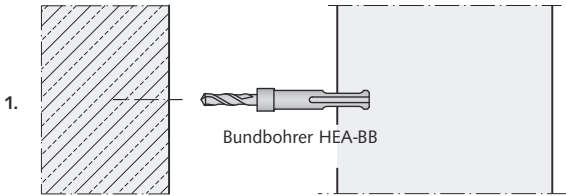


Maße in mm

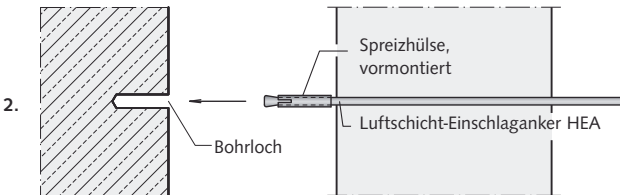
Montage

Tragkonstruktion
Beton \geq C20/25

Verblendmauerwerk



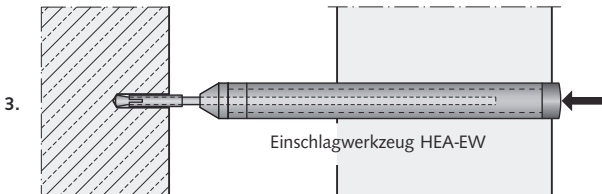
1. Loch \varnothing 6 \times 42 mm bzw. 7 \times 42 mm mit Bundbohrer HEA-BB4 bzw. -BB5 bohren. Bohrloch säubern.



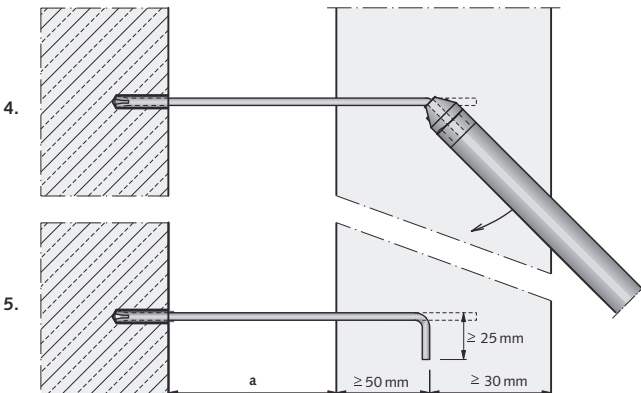
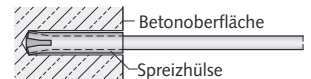
2. Wenn lose mitgeliefert, vorher Sprezhülse auf die HEA-Luftschichtankerstange gemäß Skizze aufschieben.



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 das Hülsende mit Betonoberfläche bündig abschließt.



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

5. ... in der Mauerwerksfuge einmörteln.

Horizontalschnitt

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