



HALFEN

Halfen LSA-DW+

INST_LSA-DW+ 12/23

EN Cavity Wall Tie

DE Luftschicht-
Einschlaganker

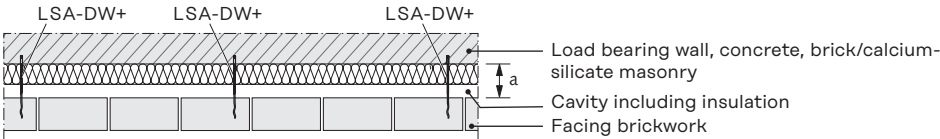
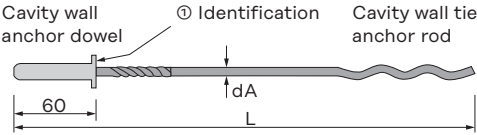


Assembly Instructions | Montageanleitung

General notes, identification

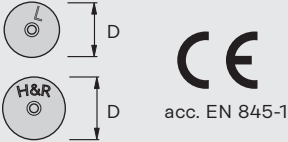
Halfen LSA-DW+ Cavity wall ties are officially approved, No. Z-21.2-2149, Z-17.5-1268 and Z-17.5-1269 (DIBt* Berlin, Germany), for connecting facing brickwork (acc. EC6) to concrete, brick masonry, calcium-silicate masonry, aerated concrete block masonry and cored hole sand-lime brick masonry support walls.

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



Schematic diagram of installation; horizontal cross section of a façade

① Identification LSA-DW+



Type range, specifications

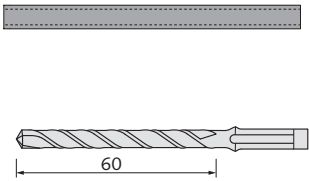
Cavity wall tie	D	Maximum cavity spacing	Drill hole	Drilling method	Spacings and building component thickness acc. Z-21.2-2149		
Type L/dA [mm]	[mm]	a [mm]	ø x depth		d	a	ar
Load bearing wall: concrete, brick masonry, calcium-silicate masonry							
LSA-DW+ 210/4	8	80	8x60	Hammer drilling	Concrete 100, Masonry 115	100	100
LSA-DW+ 250/4	8	120	8x60				
LSA-DW+ 275/4	8	145	8x60				
LSA-DW+ 300/4	8	170	8x60				
LSA-DW+ 320/4	8	190	8x60				
LSA-DW+ 350/4	8	220	8x60				
LSA-DW+ 375/4	8	245	8x60				
LSA-DW+ 400/4	8	250	8x60				
Load bearing wall: aerated concrete block masonry, cored hole sand-lime brick masonry							
LSA-DW+ PB 160/4	8	60	8x60	Rotary drilling (without hammer)	115	65	60
LSA-DW+ PB 200/4	8	100	8x60				
LSA-DW+ PB 225/4	8	125	8x60				
LSA-DW+ PB 250/4	8	150	8x60				
LSA-DW+ PB 300/4	8	200	8x60				
LSA-DW+ PB 330/4	8	230	8x60				
LSA-DW+ PB 350/4	8	250	8x60				

Tools

Insertion tool

Tube matching the cavity wall tie anchor rod length is enclosed.

Drill-bit SDS			
Nominal diameter	Cut diameter	Drilling method	
[mm]	[mm]	concrete, brick/calcium-silicate masonry	aerated concrete block/cored hole sand-lime brick masonry
8	≤ 8.45	Hammer drilling	rotary drilling (without hammer)

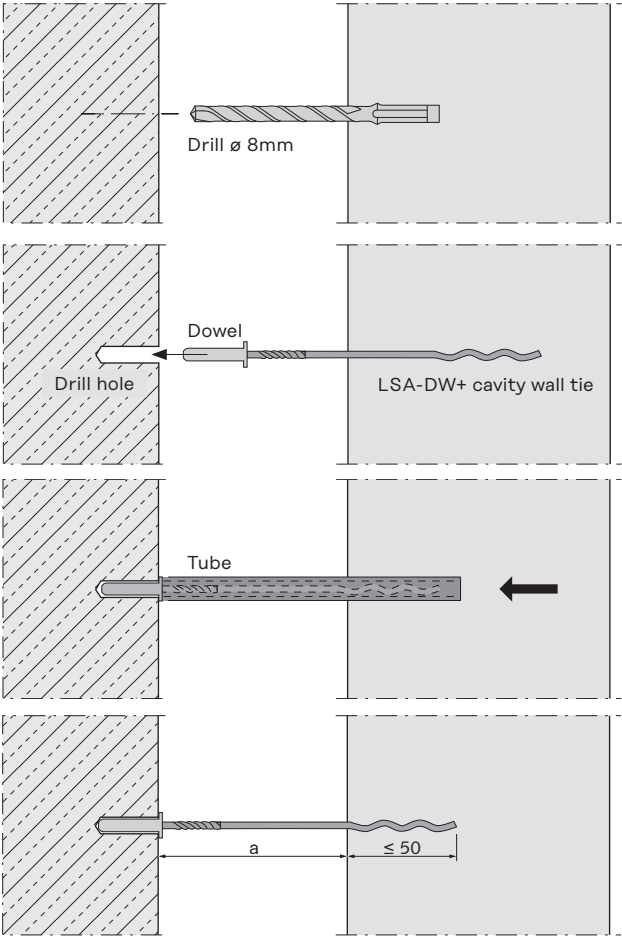


Dimensions in mm

Assembly

Load bearing wall
Concrete ≥ C20/25

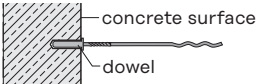
Facing brickwork



Horizontal cross section

Before placing the dowel, determine the strength class and, if required, the mortar group either based on the building documents or based on material strength analyses.

1. Make a 60 mm deep drill hole with 8 mm drill bit.
Clean any dust etc. out of the drilled hole.
2. Insert the cavity wall tie with the dowel into the drilled hole.
3. Using a hammer and the tube, drive the cavity wall tie anchor rod into the drill hole until the end of the dowel is flush with the concrete surface.



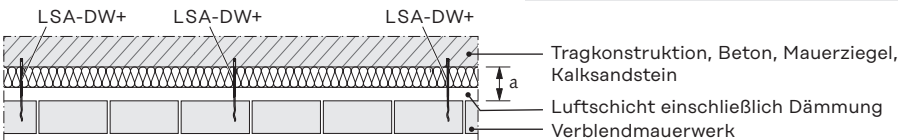
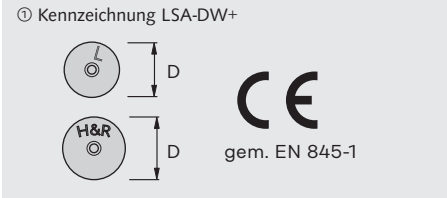
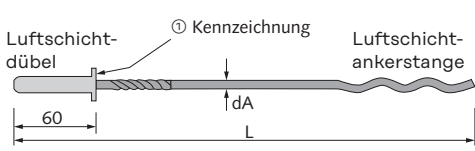
4. The anchor is correctly set when it rests at least 50 mm in the facing brickwork.

For water drainage the plastic disc "Euro clip" shall be used.

Mortar anchor rod into the brickwork joint.

Allgemeines und Kennzeichnung

Halfen Luftschichtdübelanker LSA-DW+ sind bauaufsichtlich zugelassen, allgemeine Bauartgenehmigung Zulassung Nr. Z-21.2-2149, Z-17.5-1268 und Z-17.5-1269, für die Verankerung von Verblendmauerwerk gem. EC6 an Wänden aus Beton, Mauerziegel, Kalksandstein, Porenbeton und Hochlochziegel.



Schemadarstellung für Einbau; Fassadenschnitt waagerecht

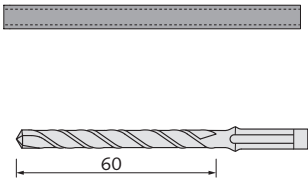
Typenauswahl, technische Daten							
Luftschicht- dübelanker	D	maximaler Abstand zwischen Innenschale und Verblendmauerwerk	Bohr- loch	Bohr- verfah- ren	Abstände und Bauteildicke gem. Z-21.2-2149		
Typ L/dA [mm]	[mm]	a [mm]	ø x Tiefe		d	a	ar
Innenwand: Beton, Mauerziegel, Kalksandstein							
LSA-DW+ 210/4	8	80	8x60	Hammer- bohren	Beton 100, Mauerwerk 115	100	100
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LSA-DW+ PB 160/4	8	60	8x60	Dreh- bohren	115	65	60
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LSA-DW+ PB 330/4	8	230	8x60				
LSA-DW+ PB 350/4	8	250	8x60				

Werkzeuge

Einschlagwerkzeug

Rohr passend zur Luftschichtankerlänge liegt jedem Karton bei.

Bohrer SDS			
Nenn- durchmesser	Schneiden- durchmesser	Bohrverfahren	
[mm]	[mm]	Beton, Mauerziegel, Kalksandstein	Porenbeton, Hochlochziegel
8	≤ 8,45	Hammerbohren	Drehbohren

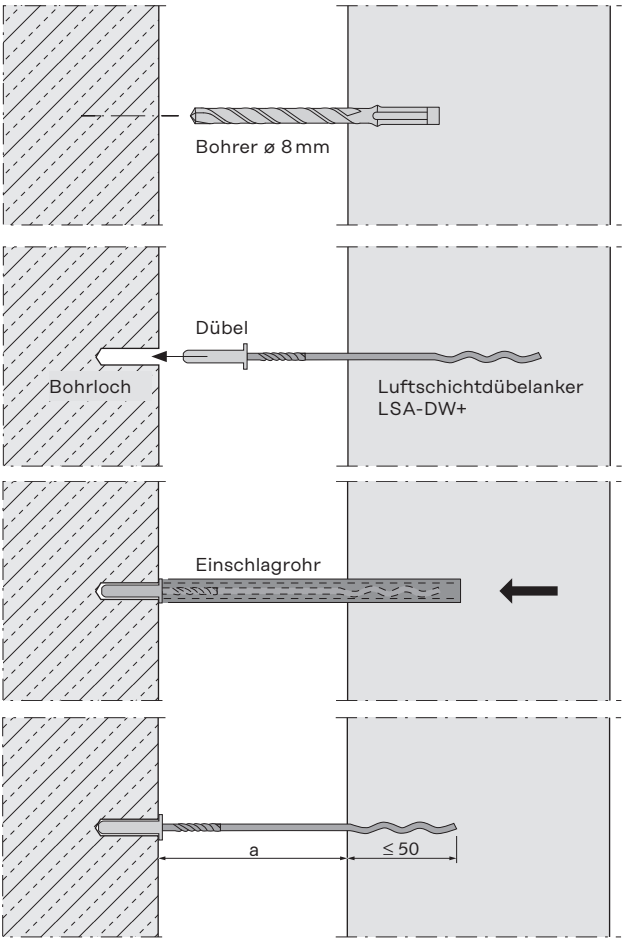


Maße in mm

Montage

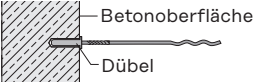
Tragkonstruktion
Beton ≥ C20/25

Verblendmauerwerk



Horizontalschnitt

Vor dem Setzen des Dübels ist anhand der Bauunterlagen oder durch Festigkeitsuntersuchungen der Baustoff, die Festigkeitsklasse und ggf. die Mörtelgruppe festzustellen.

1. Mit einem 8 mm Bohrer ein 60 mm tiefes Bohrloch herstellen.
Bohrloch säubern.
2. Luftschichtdübelanker mit vormontiertem Dübel in das Bohrloch einsetzen.
3. Mit einem Hammer und dem Einschlagrohr den Dübel in das Bohrloch eintreiben, bis das Dübelende mit der Betonoberfläche bündig abschließt.

4. Der Drahtanker ist richtig gesetzt, wenn er mindestens 50 mm in der Vormauerschale aufliegt.
Zur Wasserabführung ist die Kunststoffscheibe „Euro-Clip“ vorgesehen.
Dübelanker in der Mauerwerksfuge einmörteln.

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