

Subject of this document is a HD-Anchor manufactured by HALFEN GmbH, which according to these instructions is cast into a reinforced concrete element of minimum concrete class C20/25 and the respective matching lifting-clutch.

Certified by: The testing- and certification body FA PSA, Zwengenberger Straße 68 in 42781 Haan, Germany  
European certified body 0299

### 1. Manufacturer

The HD-Anchor system is made and distributed by HALFEN GmbH, Liebigstraße 14, 40764 Langenfeld. The product is a Class A1 fall protection attachment according to DIN EN 795 paragraph 3.13. The product was tested according to DIN EN 795 section 4 and 5.

### 2. Application

Before using the fall protection anchor-point, check the **lifting-clutch 3b** is correctly screwed into the anchor-sleeve, see point 3a. When using the anchor-point for fall protection it is important to note that only equipment approved according to DIN EN 362; 2005 type B or M is allowed to be connected. Possible cross-sections of attachment equipment is limited by the opening in the HD-clutch or in the ring bolt, see table 2 on page 2.

The safe use of the feature is only ensured if the right equipment according to page 4 is used.

The user must be accordingly trained in the use of the fall protection anchor-points and be physically capable of using the fall protection attachment for its intended purpose.

Only one person is allowed to be secured to each fall protection anchor-point. The personal fall arresting equipment (PSE) must have a fall absorber e.g. according to EN 355. Observe the respective user manual for the deployed equipment.

The fall protection attachment is only to be used as a personal safety device.

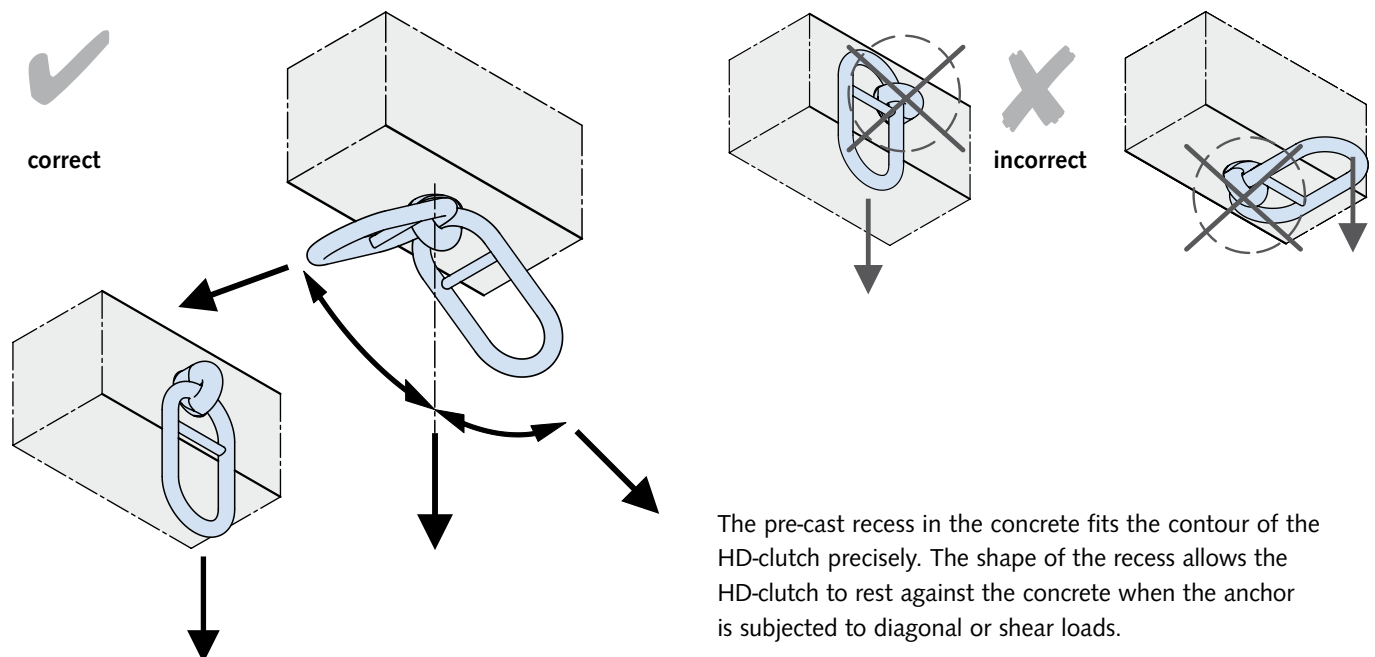
The connecting element (carabiner) on the harness (PSE) must be freely moveable in load direction and must not be subjected to loads over corner edges.

Before use the user has to assure that in the case of a fall he can be recovered, quickly and safely.

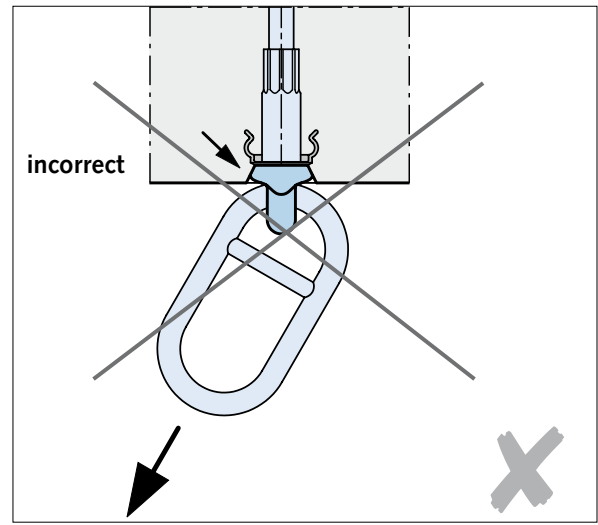
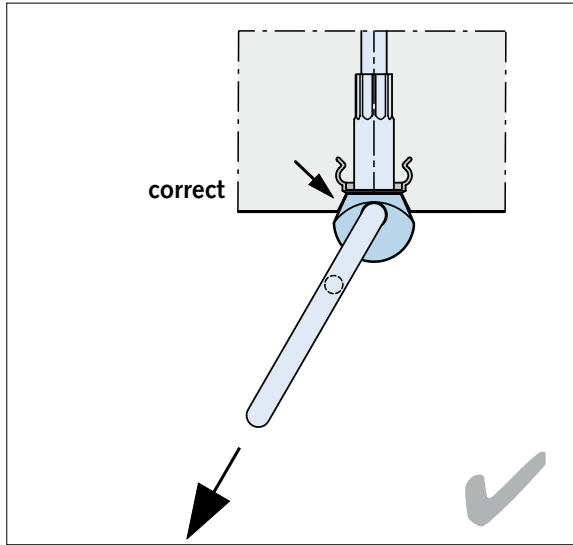
If the fall protection anchor-unit is distributed in other EU-countries, a manual for installation and use will be made available in the language of the respective country.

Only dedicated tested and certified equipment are to be used if the fall arrester equipment is to be positioned over corner edges.

**Diagonal load direction (more than 15° from the vertical) or transverse load is only allowed in the direction of the ring-bolt.**



**Important: Observe load direction of clutch**



Diagonal or transverse loading is not permitted

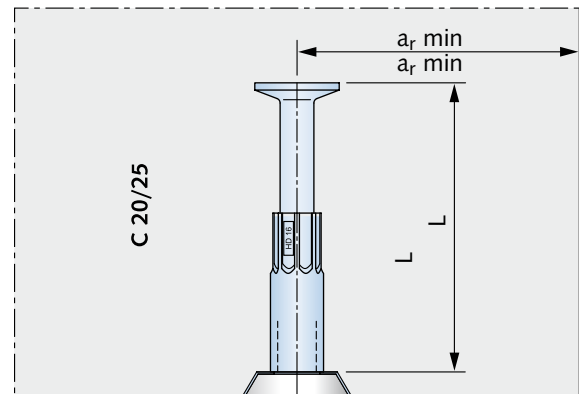
**3. Technical details**

**3a. Cast-in HD-Anchor**

Before using the anchor-point check the edge spacing is correct, refer to the values in table 1.

Table 1: Cast-in HD-Anchor (Crown anchor)

anchor	$a_r$ min [mm]	L [mm]	thread
HD-Short anchor 6360-2,5-090	125	90	Rd16
crown anchor 6380-1,2-080	125	80	Rd16



The HD-Anchor (crown anchor) must be installed with the recess as designed; see the illustration on the right.

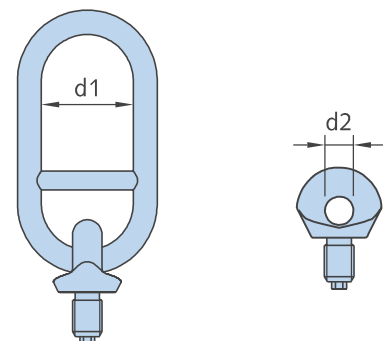
**3b. Lifting-clutch**

The lifting-clutch (HD-clutch or ring bolt) is screwed **fully** into the anchor (HD-Anchor or crown-anchor) and then unscrewed maximum one half of a revolution to allow the clutch free movement in load direction.

Check the unit is correctly fitted at regular intervals when using the anchor-point.

Table 2: Dimensions

type	$d_1$ min [mm]	$d_2$ [mm]	attachment with hook
HD-Lifting clutch 6362-2,5	50	-	type B or M
ring bolt 6338-Rd16	-	16	steel hook type B or M

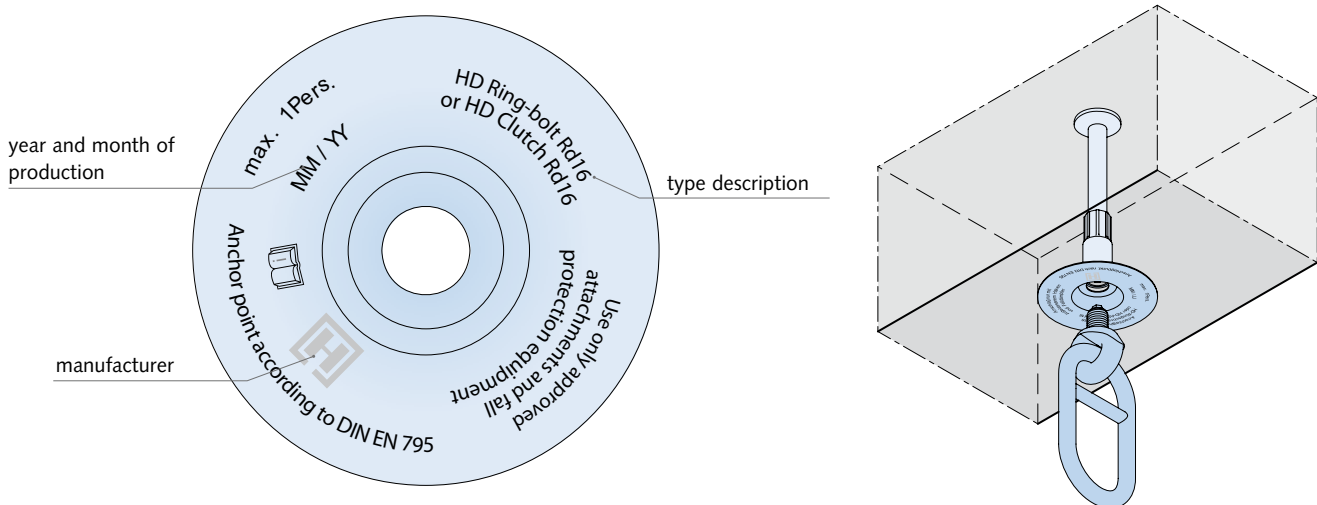


The connecting element snap-hook/carabiner on the harness (PSE) must still remain freely moveable after being connected.

#### 4. Identification tag

The cast-in HD-Anchor is identified by a cast-in plastic identification disc (included in delivery with the HD-Anchor) as a HD-2.5; The crown anchor is identified with Rd16 marked on the sleeve. The ring-bolt and the ring-bolt for the HD-clutch have the same identification number. The thread size (Rd16) is also marked on the ring-bolt with the year and month of manufacture marked on the HD-clutch.

On the label for the sleeve anchor and on the ring-bolt „DEHA“ is identified as the system, while the lifting-clutch is CE-marked and „HALFEN“ identified as the manufacturer.



When using the anchor as a fall protection anchorage attachment the identification plate must be fitted between the HD-Anchor-clutch (ring bolt) and the cast-in anchor.

#### 5. Inspection and maintenance

The fall protection anchorage point must be checked before each use by an acknowledged expert for any signs of corrosion or deformation and to ensure the unit is secure; this check must be at least once in every 12 month period. All information as described under number 3 must remain perfectly legible.

The ring bolt or the HD-clutch must be replaced if there is any sign of deformation.

Attachments which, on inspection, seem to be unsafe and anchor-points that have been subjected to load due to a fall, are not to be used until an acknowledged expert has pronounced them to be safe.

First signs of corrosion can be carefully removed; carefully brush-off corrosion and re-apply the corrosion protection. If more than basic corrosion protection is required then this must be carried out by;

HALFEN GmbH,  
40764 Langenfeld,  
Germany.

**4. Example for a maintenance check-list**

**Type:** cast-in component: Crown-anchor  anchor element: HD-clutch   
 HD-Anchor  Ring bolt

**Manufacturer:** HALFEN GmbH  
 Liebigstr. 14  
 D-40764 Langenfeld

**Year and month of manufacture:** .....

**Date of purchase:** .....

The fall protection anchor-point must be checked for safety and function by an acknowledged expert at least once in every 12 month period. Always observe the provided installation and application instructions.

This fall protection anchor-point may only be used with suitable personal safety equipment as follows:

- safety harness according to EN 361
- connecting elements according to EN 354
- fall absorber according to EN 355
- connecting elements according to EN 362, as described in the installation instructions
- sliding fall arrester according to EN 353-2 (applies only for ceiling installation)
- fall arresting equipment according to EN 360 (applies only for ceiling installation or rope guide using a suitable pulley system)

date of inspection	examined by...	condition	signed	next inspection due on

**HALFEN GmbH**



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