

FETTE-Steel Chimney according to DIN 4133

Fitting instructions for anchor bolts - Grouting instructions for chimney base

Our no. K order data:

The anchor cage delivered in advance consists of:

- 1 fitting template size
- anchor bolts M x mm
- washers
- nuts M

1 fitting and grouting instructions (this document)

A: The anchor cage is to be assembled by the customer according to the drawing and figure 1.

Each of the anchor bolts (2) is to be equipped with one nut (4) and to be introduced into the holes of the fitting template (1) so that sufficient space is left above the template ring for the washers (3) and 2 nuts (4) as well as for an excess length equal to 1-2 nut heights.

The protruding thread ends (5) including the nuts are to be safely covered with adhesive masking tape to prevent impurities and damage.

The anchor bolts are to be safely screwed to the template ring by means of the lower nut, so that the anchor plates are directed radially towards the outside (starlike).

ATTENTION! Make sure to cover the thread rod ends with adhesive masking tape, otherwise assembly could take more time involving additional charges.

B: Ensure to fit the pre-assembled anchor cage perpendicularly and flush into the base. Beside others it is to be made sure that the anchor bolt with yellow marking is seated beneath the exhaust gas inlet of the chimney. Exact alignment with the axes of coordinates and/or the edge of the building is necessary (see also ground plan and drawing as well as figure 2).

Furthermore a 100 mm gap is to be left between the lower edge of the template ring and the raw concrete upper edge of the foundation according to the schematic drawing on page 3.

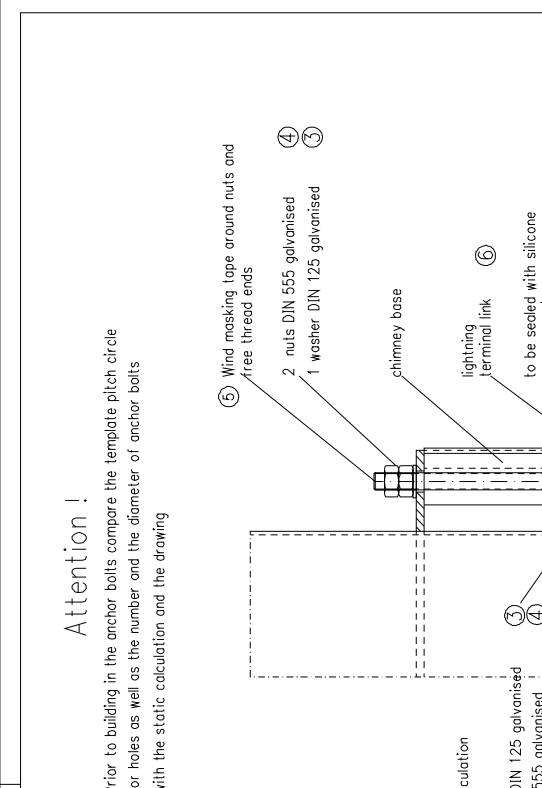


Figure 1
Anchor cage readily assembled, free thread ends and nuts covered with adhesive masking tape.



Figure 2
Anchor cage built in on construction joint, yellow marking on axis of exhaust gas inlet. The cap bracket and the lightning protection grounding have been arranged on the lower armouring unit which cannot be seen in the figure. The upper armouring will still have to be completed.

Einbauanleitung für die Ankerbolzen



⑤ Wind masking tape around the nuts and free thread ends

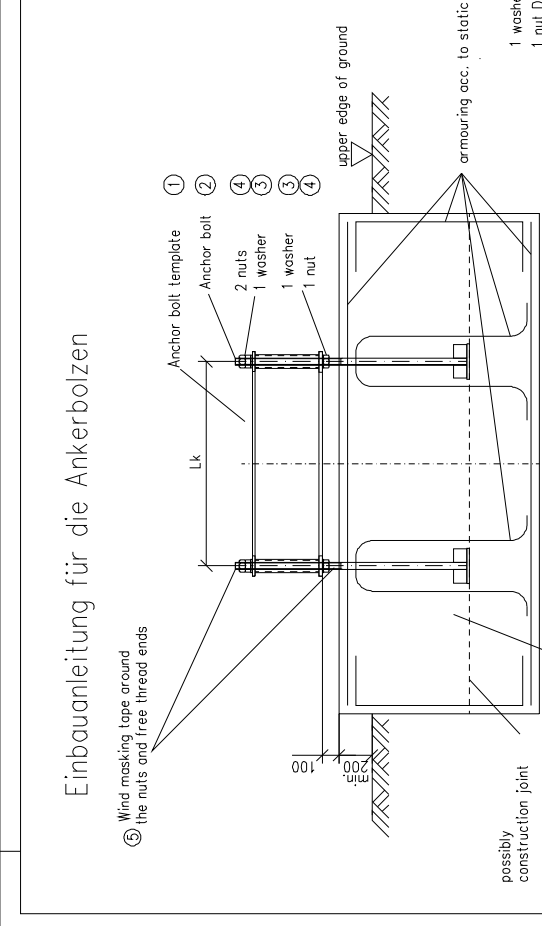
1 washer DIN 125 galvanised
1 nut DIN 555 galvanised

possibly construction joint

Chimney foundation to be constructed in a frost-protected way by customer on natural ground acc. to static calculation

Attention !

Prior to building in the anchor bolts compare the template pitch circle for holes as well as the number and the diameter of anchor bolts with the static calculation and the drawing



⑤ Wind masking tape around nuts and free thread ends

2 nuts DIN 555 galvanised
1 washer DIN 125 galvanised

chimney base

lightning terminal link

to be sealed with silicone after grouting by the customer

up. edge of ground

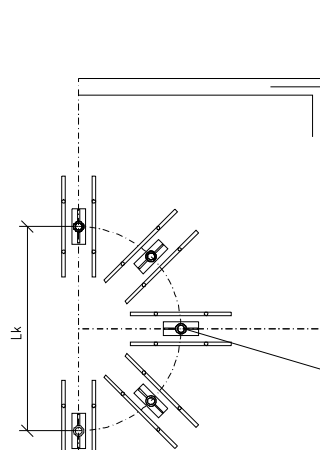
100

200 min.

After chimney alignment the customer has to grout the base ring with special grouting mortar Pagel V1/50 acc. to the mortar manufacturer's instructions

Attention !

Always position the "yellow marking" on the axis beneath the fluegas inlet of the chimney




Index	Datum	Name	Änderung	Zählung Nr.
Maßstab				WN 1.380.2-3
Fitting instructions for anchor bolts Chimney acc. to DIN 4133				
Bearb.	Datum	Name	 GMBH UMWELTECHNIK BAD SALZUFLEN	
Gepr.	22.10.04	Hankemeier		
Norm	23.10.04	Hovestädt		
			Das Urheberrecht an dieser Zeichnung verbleibt uns. Weitergabe, Kopieren und Nachbau nicht gestattet Tel. 05222/2807-0/Fax 280734	



Figure 3
Anchor cage with base
mounted in the
foundation.

Two internal grounding
flags lead to the
foundation ground
connection.

- C:** The foundation is to be constructed according to DIN 4133 in a way to ensure that all anchors can be introduced at a sufficient depth into the concrete, possibly the anchors are to be re-anchored by means of cap brackets (see indications in the statical calculation).

Armouring is to be fitted based on the statical calculation, see figure 2.

The foundation is to be constructed in a way that all chimney parts (footplate) that are not surrounded by the concrete are ≥ 300 above the ground. The projection is usually as follows:

- ≥ 200 mm foundation or base and
- 100 mm grouting concrete see figure 3 and schematic drawing on page 3.

- D:** Please take into account that lightning protection grounding has to be carried out – according to the VDE guidelines, VDE 0185 part 1 + 2 and/or ENV 61024-1 (DIN V VDE V 0185 part 100).

Please make sure to have installation carried out by a specialised company.

The ground connection will then be connected to the lightning terminal links ⑥ that have been prepared by our company, see figure 4.

- E:** The template ring belongs to FETTE GmbH. If assembly is not carried out by our fitters, this ring is to be returned immediately carriage prepaid.

In case of loss and/or damage the ring will be charged at cost price.



Figure 4
Readily grouted chimney
base with ground
connection.

F: After chimney assembly the area between the base plate and the raw concrete is to be grouted immediately (in the short term) with special grouting mortar by the customer, e.g. with Pagel grouting mortar V 1/50 or at least with an equivalent mortar according to the instructions given on page 6 of this documentation.

If necessary the top side of the foundation is to be bevelled (water drain).

Faultless condensate drainage away from the chimney is to be provided.

It is to be made absolutely sure that the condensate does not drip from the chimney on the steel construction or on the grouted mortar.

We will be pleased to answer any further questions you may have.

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