Assembly instructions

ZAflow inlet guide grille for centrifugal fans

Application

- Use as a guard grille, provided the required safety distances are maintained. The certified contact protection supplied for ZIEHL-ABEGG SE fans is designed in accordance with DIN EN ISO 13857 Table 4 (14 years upwards). The contact protection function only applies to the ZAflow S145 and S198 as set out in Table 1.
  Attention!
  The ZAflow M233, M295, M375, M468 and M558 inlet guide grilles (Table 2) do not perform a contact protection function as specified in DIN EN ISO 13857!
- The inlet guide grille can reduce the noise produced by the fan in unfavourable flow situations.



Safety instructions

- This document is only applicable in conjunction with the assembly instructions for the device on which this inlet guide grille is fitted. The information concerning safety, installation and connection described there must be followed!
- Before installation and start-up, read this assembly instructions carefully to ensure correct use!
- Proper use is exclusively in combination with fans approved by ZIEHL-ABEGG. Any other use is classed as improper and ZIEHL-ABEGG accepts no liability for any resulting damage.
- Be aware of any damage to the packaging or the inlet guide grille. Use is not allowed if there is any damage.
- Store the inlet guide grille in the original packaging in a dry area protected from the weather and protect it from dirt and weather until final installation.
- Before working on the fan, this must be disconnected from the power supply and secured against switching back on!
- Before the first switch-on, remove any items that may be present (borings, screws and other foreign objects) from the intake area - risk of injury from any objects that may fly out!

Compliance with the following specifications also serves to ensure product safety. Should the specified information, in particular with regard to general safety, transportation, storage, assembly, operating conditions, commissioning, service, maintenance, cleaning and disposal/recycling not be observed, safe operation of the product may not be guaranteed and can potentially pose a risk of death or injury to users and/or third parties. For this reason, deviations from the specifications below can lead to the loss of legal materials defect liability as well as to liability of the buyer for the product rendered unsafe by deviation from the specifications.

Proceed as follows:

Inlet guide grille ZAflow S145 and S198

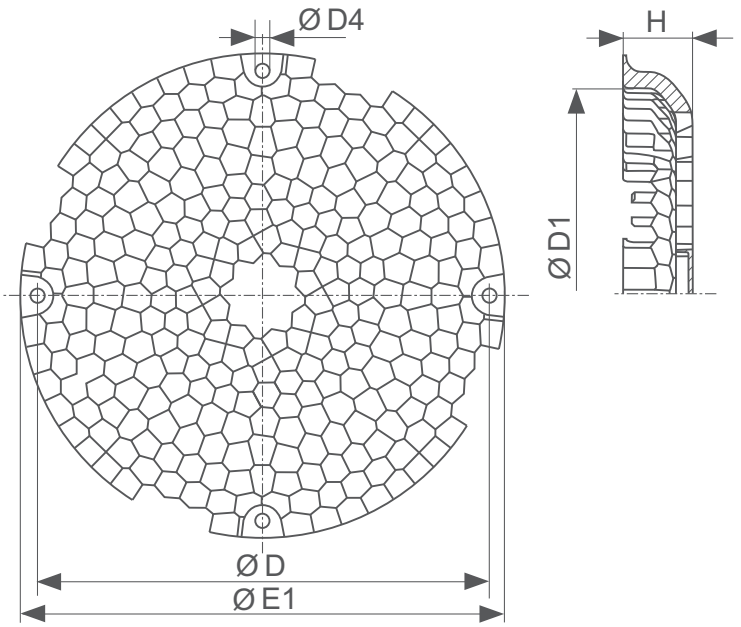
- ZApilot
  - When using the recommended attachment accessories, observe the tightening torque of 1.5 Nm. This tightening torque applies when using the screw bosses. The screw bosses should be pre-bored with a diameter of 3 mm (position is determined by the centre marks on the inlet nozzle).
- RG16V.AR
  - When using the recommended attachment accessories, observe the tightening torque of 1.1 Nm. This tightening torque applies when using the prepared screw bosses.
- Other combinations
  - Since the specific screw used varies depending on the customer unit, the screw used must be checked for each individual situation. A screw connection appropriate for plastic must be ensured.
  - In certain cases, appropriate recesses must be made for the combination of ZAflow and pressure tapping point in the outer area of the ZAflow using appropriate tools. Suggested areas are visually highlighted on the bottom of the ZAflow (see “Recess area” figure below).

Info
Take appropriate measures to prevent chip formation under the mounting hole.

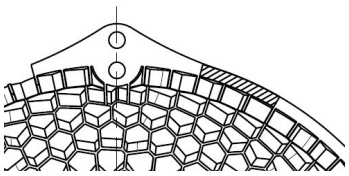
Table 1

Available inlet guide grilles and recommended attachment accessories						
Designation	Art. No. of inlet guide grille incl. attachment accessories	ØE1	ØD	ØD1	ØD4	H
ZAflow S145	00414468S	170 mm	158 mm	145 mm	5 mm	25 mm
ZAflow S198	00414553S	238 mm	206.6 / 226.6 mm	198 mm	5 mm	27 mm

Dimension sheet



Recess area



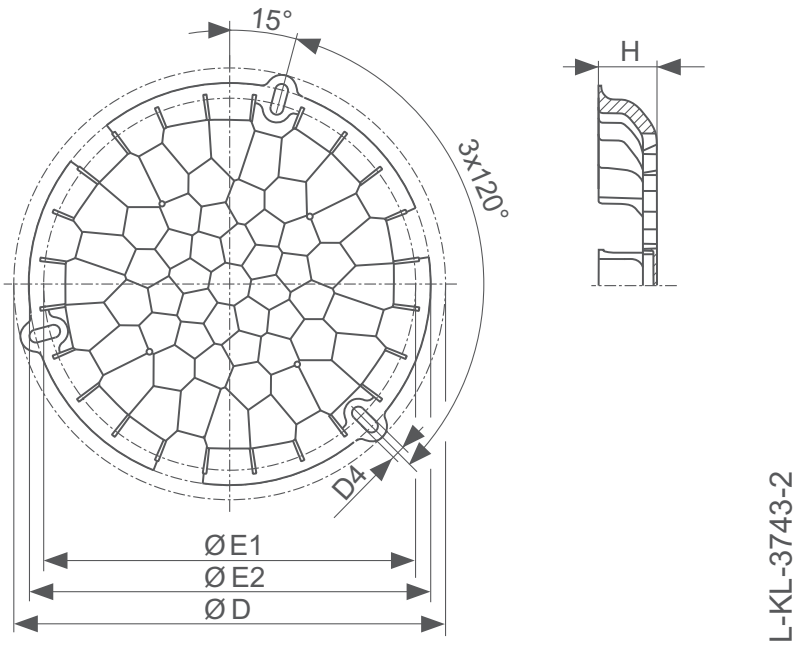
Inlet guide grille ZAflow M233, M295, M375, M468 and M558

- The inlet guide grilles are secured using M6 screws or with sheet metal screws ST 6.3 on the ER model range (up to BG 560) / ST 8.0 (BG630 and 710).
- The tightening torque for all ZAflow M233, M295, M375, M468 and M558 models is 5.2 Nm.
- Due to the surface pressure occurring, the screws should be fitted on top of flat U-washers with the largest possible diameter (M6 and ST 6.3 washers min. 18 mm diameter, ST 8.0 washers min. 24 mm diameter).
  Attention!
  Do not use any mechanical bolt locking devices (e.g. detent edged washers) that damage the screw connection tabs on the inlet guide grille. Only chemical bolt locking devices may be used.

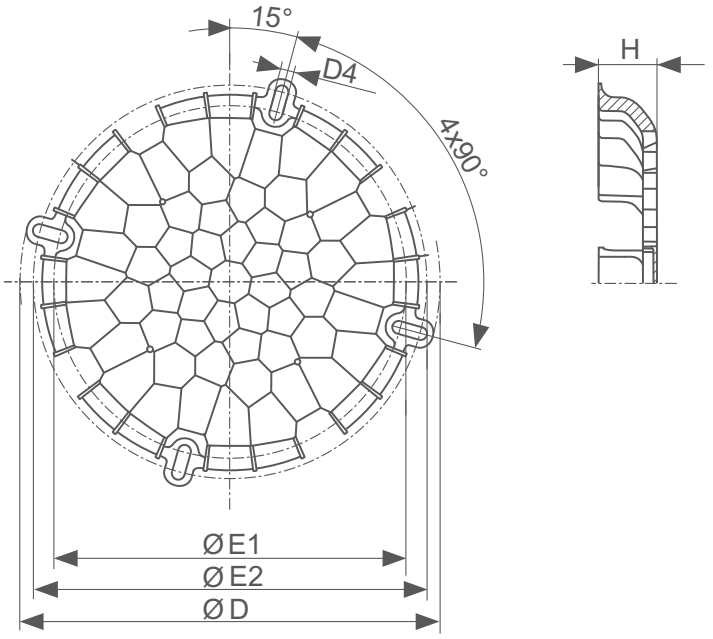
ZAflow inlet guide grille, table 2 (specifications in mm)

Designation	ØD	ØD4	E1	E2	H
ZAflow M233	305	9	257	283	49.5
ZAflow M295	373	9	317	352	63
ZAflow M375	459	9	392	438	80
ZAflow M468	560	9	488	538	100
ZAflow M558	697	11	600	670	119

Dimension sheet ZAflow M233

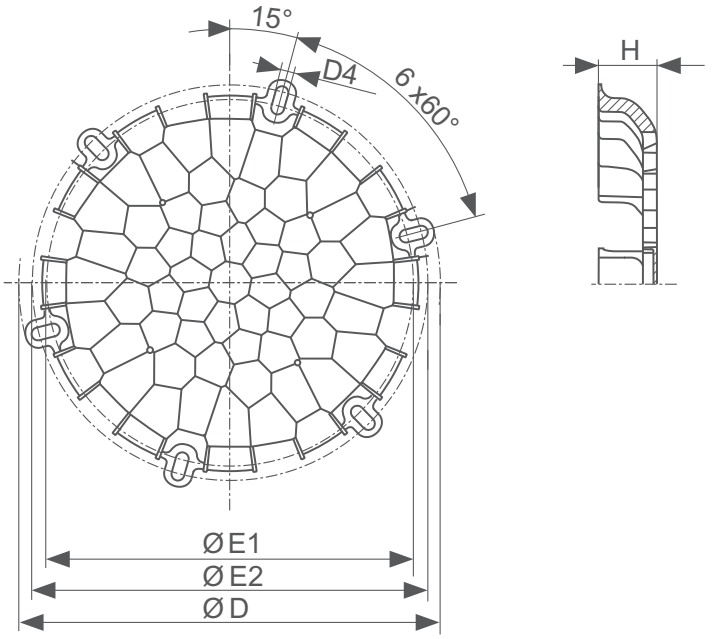


Dimension sheet ZAflow M295, M375 und M468



L-KL-3743-3

Dimension sheet ZAflow M558



L-KL-3743-4

Manufacturer reference

Our products are manufactured in accordance with the relevant international regulations. If you have any questions concerning the use of our products or plan special uses, please contact:

ZIEHL-ABEGG SE
Heinz-Ziehl-Straße
74653 Künzelsau
phone: +49 (0) 7940 16-0
info@ziehl-abegg.de
http://www.ziehl-abegg.com