Installation Information for Baffles

Type MWK

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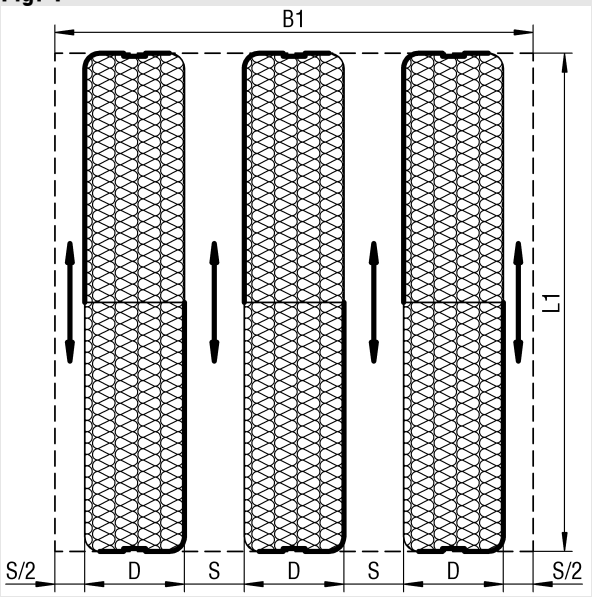
Installation Information for Baffles Type MWK

Schako MWK baffles with RAL quality seal are quality products whose quality is continuously monitored. They are designed for installation in on-site housings. To ensure proper mounting and continuous quality assurance, this installation information must be observed.

Installation information

MWK baffles have a symmetric structure and comprise absorption and resonance parts. They must be arranged alternately in the direction of the air flow and in parallel to one another (Fig. 1).

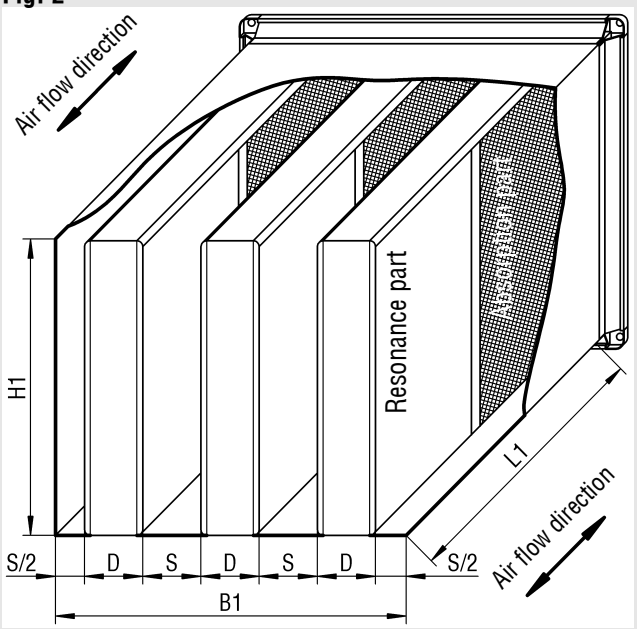
Fig. 1



Arrangement of the baffles in the ventilation duct

MWK baffles must be built into ventilation ducts that have smooth and plane-parallel walls made of steel, aluminium, concrete, masonry or the like in accordance with Fig. 2.

Fig. 2



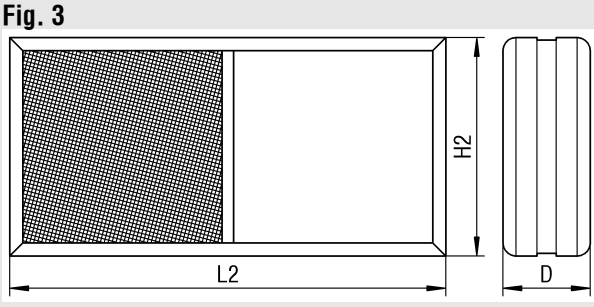
Only baffles having the same length L can be installed next to each other. The gap between two baffles can be calculated from the inside width B1 of the duct:

Gap S = Width B1 + Number of baffles n - Baffle thickness D

Baffle dimensions

Between the two outer baffles and the duct, the gap S must be halved, that is, S/2 must be used. A constant value for the dimensions of the gap must be entered via the baffle length L2 and the nominal height H2 (increasing the gap width will lower the sound absorption, while decreasing it will increase the pressure loss and flow-generated noise). The actual dimension of the baffle height is 4 mm smaller than the nominal height (Fig. 3). H2 is also the dimension for ordering.

Fig. 3



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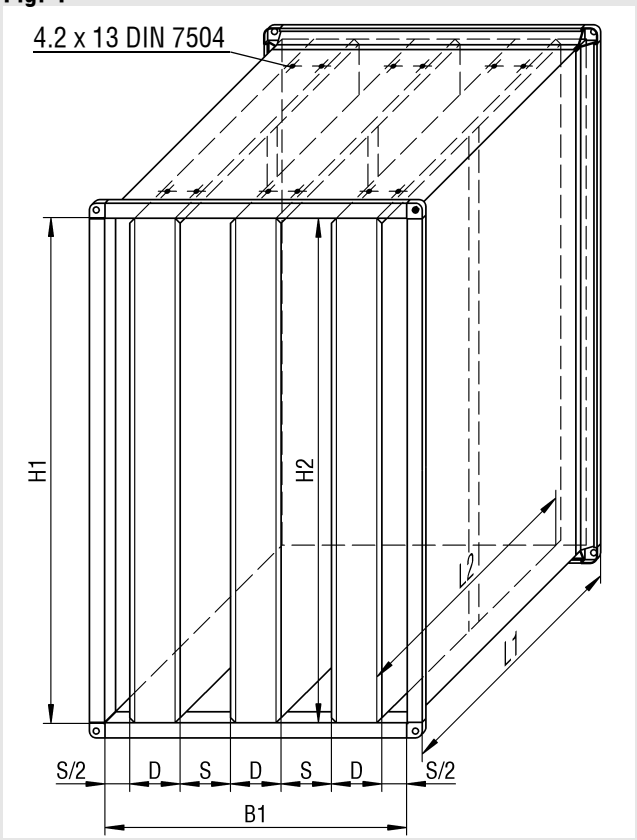
Baffle installation with drilling screws

Baffle height H2 and baffle length L2 must not be interchanged. The air flow must flow through the gap S in the direction of the baffle length.
MWK baffles can be fastened in sheet metal ducts directly with drilling screws (Fig. 4).

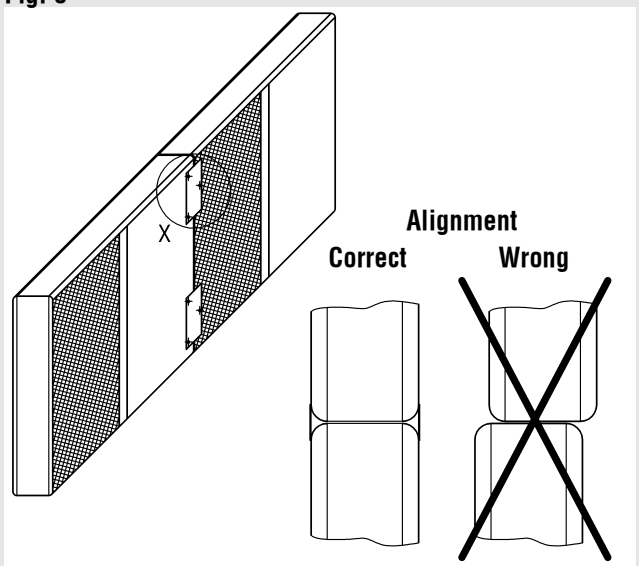
Fig. 4



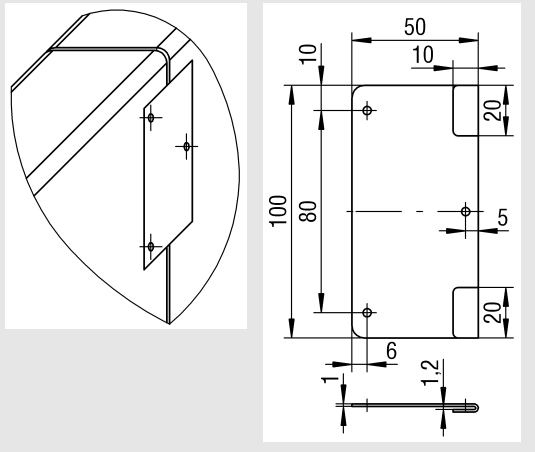
Baffle installation in a row

MWK baffles can be placed directly one after another (Fig. 5). Careful alignment (Fig. 5) is required. An offset of the gap S in the direction of the baffle length must be avoided.

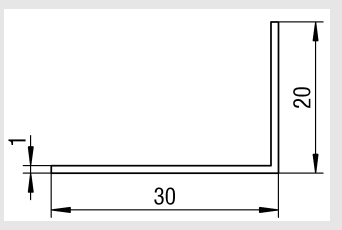
Fig. 5



Connection via fish plates
Detail X



Angled rail for installation in concrete ducts



Attention: The edge gap must be ≥ 30 mm.

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Baffle installation vertically

Connection using U-caps

The MWK baffles can be placed directly on top of each other (Fig. 6). They can be connected with U-caps (Fig. 7). To keep the gap S sufficiently constant with large heights, a mutual support of the baffles is recommended.

Fig. 6

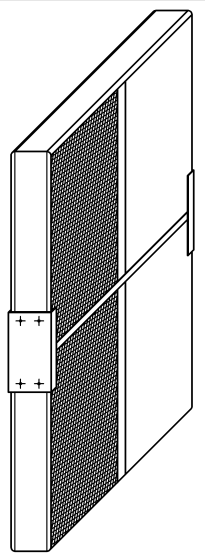
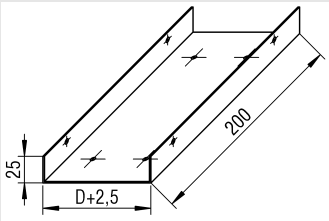


Fig. 7
Detail U-cap



Legend

H2	(mm)	=	Baffle height
L2	(mm)	=	Baffle length
D	(mm)	=	Baffle thickness
S	(mm)	=	Gap width
B1	(mm)	=	Inside duct width
L1	(mm)	=	Duct length
H1	(mm)	=	Inside duct height
n	(-)	=	Number of baffles