

The VENTASQUARE air channel

For interior- and exterior installation

VENTAFLEX®

More efficiency in air conduction



Economical in purchasing Effective at installation

VENTASQUARE air channels are financially a smart alternative compared to conventional systems.

We would like to make a settlement offer to those insulated air channels, which have been familiar to you so far.

Compared to VENTASQUARE air channels comparable, conventional air channels are 75 % heavier. This weight advantage simplifies the installation of the VENTASQUARE system in a significant degree: The installation is made easily and quickly without any heavy device.

Variable in planning

The finished insulated VENTASQUARE air channels offer the planner and the craftsmen full possibilities.

That way the application in swimming pools with chlorinated air is no problem.

What is special are the highly flexible moulded parts. Even fitting pieces can be made by the craftsmen at the construction site – without any special tools.

Uniquely efficient in operation

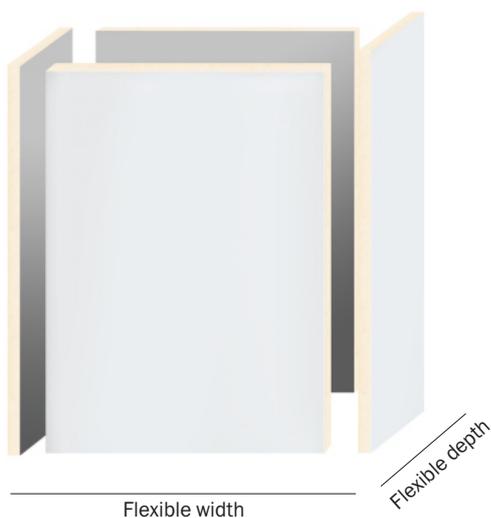
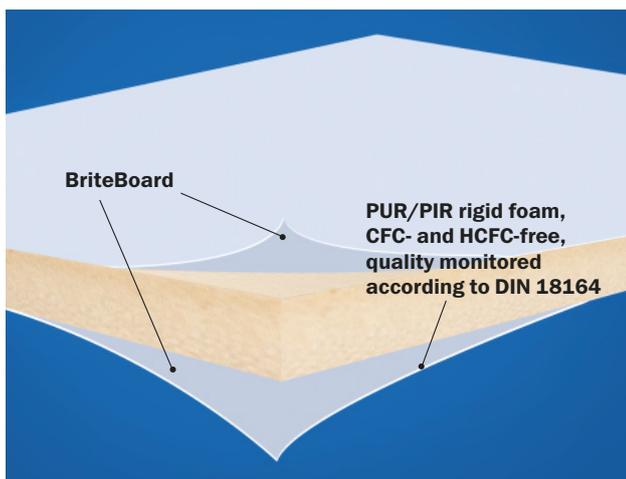
The very good insulation properties provide low operating costs and notable energy savings. Further savings arise from low friction-pressure losses and high tightness. In addition VENTASQUARE air channel is characterized by noticeable sound insulation and vibration damping.

Advantages at a glance

- Ideal thermal insulation
- Easy, quick and flexible installation
- Corrosion-resistant against chlorine
- Hygienic
- Top-layer foamed, not glued
- Impermeable
- Paintable
- CFC-free
- Directly applicable

Personal consulting at VENTAFLEX® under +49 (0) 2505 - 93 829-0

VENTASQUARE Rectangle-air channel



Product details

- Rectangle-channel system
- 20-40mm PUR/ PIR rigid foam plates with Brite Board aluminium laminate
- Pressure stages 200-400 Pa as well as 400-750 Pa
- Quality-monitored DIN18164
- Thermal conductivity rating WLS 025
- Including necessary reinforcement, where needed

VENTASQUARE air channels are available in the following qualities:

- 20 mm, Alu 80 μm , approx. 1 kg/m², normal flammability
- 30 mm, Alu 50 μm , approx. 0,7 kg/m², normal flammability
- 40 mm, Alu 50 μm , approx. 1,2 kg/m², low flammability

Channels beyond 900 mm edge length have an aluminium angle for guidance at outdoor application.

As of edge length beyond 800 mm inner reinforcements are incorporated.

Needed components

- Butyl adhesive tape (outdoor area)
- Aluminium adhesive tape (indoor area)
- VentaRapid-glue

Pressure 400-750 Pa, price per m²

VENTASQUARE air channel straight

a/b	< 700 mm	710 - 1.400 mm	1410 - 2000 mm
< 700 mm	50,40 €	–	–
710 - 1.400 mm	56,70 €	63,70 €	–
1410 - 2000 mm	60,90 €	69,30 €	78,40 €

VENTASQUARE moulded parts

a/b	< 700 mm	710 - 1.400 mm	1410 - 2000 mm
< 700 mm			
710 - 1.400 mm			
1410 - 2000 mm			

Pressure 400-750 Pa, price per m²

VENTASQUARE air channel straight

a/b	< 550 mm	560 - 1.000 mm	1.010 - 1.400 mm	1.410 - 2.000 mm
< 550 mm				
560 - 1.000 mm				
1.010 - 1.400 mm				
1.410 - 2.000 mm				

VENTASQUARE moulded parts

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1.410 - 2.000 mm				

VentaRapid

VentaRapid is an especially developed glue to stick the VENTASQUARE rectangle-air channels together.

item no.	quantity
030015004	600 ml

Butyl adhesive tape

20 m long

width	item no.
75 mm	040003031
100 mm	040003032

Aluminum-cap cover, mounted

~500 µm Aluminum sheet metal for outdoor channels

item no.
350100000

Aluminium adhesive tape

50 µm, 75 mm wide, 50 m long

item no.
040003030

Outdoor installation:

When installing VENTASQUARE air channels VentaRapid is applied on the edges and the segments are connected bluntly. Ducts beyond an edge length of 900 mm have an aluminium angle for guidance for an easier installation. For bigger channels aluminium angles can be supplied as extra supplies, which can be installed at the four outside corners and can be screwed together with the inside aluminium guidance with self-tapping screws and thereby are mechanically fixed even tighter.

Attention must be paid that sealing compound is applied to the joints so that no leakage occurs. If necessary, sealant adhesive must additionally be inserted into the connection from the outside after fitting together.

The joints are masked with butyl adhesive tape. At temperatures under +18°C the butyl tape should be heated (warm air blower) until it is soft and elastic. Then it has to be pressed on fully and firmly.

If the aluminium cover plates are pre-mounted on the duct top the aluminium plates are to be sealed well to the duct top with VentaRapid at the connecting points, so that no air can flow under the plates from a „leaking“ connection. (especially at overpressure channels because of the swelling!).

In the outdoor area the channel duct should be protected from hail.

Indoor installation:

When installing VENTASQUARE air channels VentaRapid is applied on the edges and the segments are connected bluntly. The joints, which are still accessible, are masked with 50 µm aluminium adhesive tape.

Attention must be paid that sealing compound is applied to the joints so that no leakage occurs. If necessary sealant adhesive must additionally be inserted into the connection from the outside after fitting together.

The suspension of the VENTASQUARE air channel can be carried out as in the case of sheet metal ducts.

Alternatively a covered mounting can be made, by dowelling the VENTASQUARE air channel to the wall or ceiling with washers from the inside. The screws and washers should be sealed with VentaRapid generously so that no unnecessary corrosion arises.



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General information

- Store unprocessed channel parts dryly
- Processing only at temperature over +7°C and dry weather (without dew)
- With applied acoustic insulation baffles on part of the building site (especially overpressure channel) the channel has to be screwed together with the baffles from the outside (e.g. self-tapping screws with big washer), as otherwise the channel can swell. These points must be sealed with a piece of butyl adhesive tape before and after the screw connection (generously over and under the washer).

VENTAFLEX GmbH & Co. KG

Siemensstraße 46
D-48341 Altenberge

Fon +49 (0) 2505 – 938290
Fax +49 (0) 2505 – 93829 -10

info@ventaflex.de
www.ventaflex.de