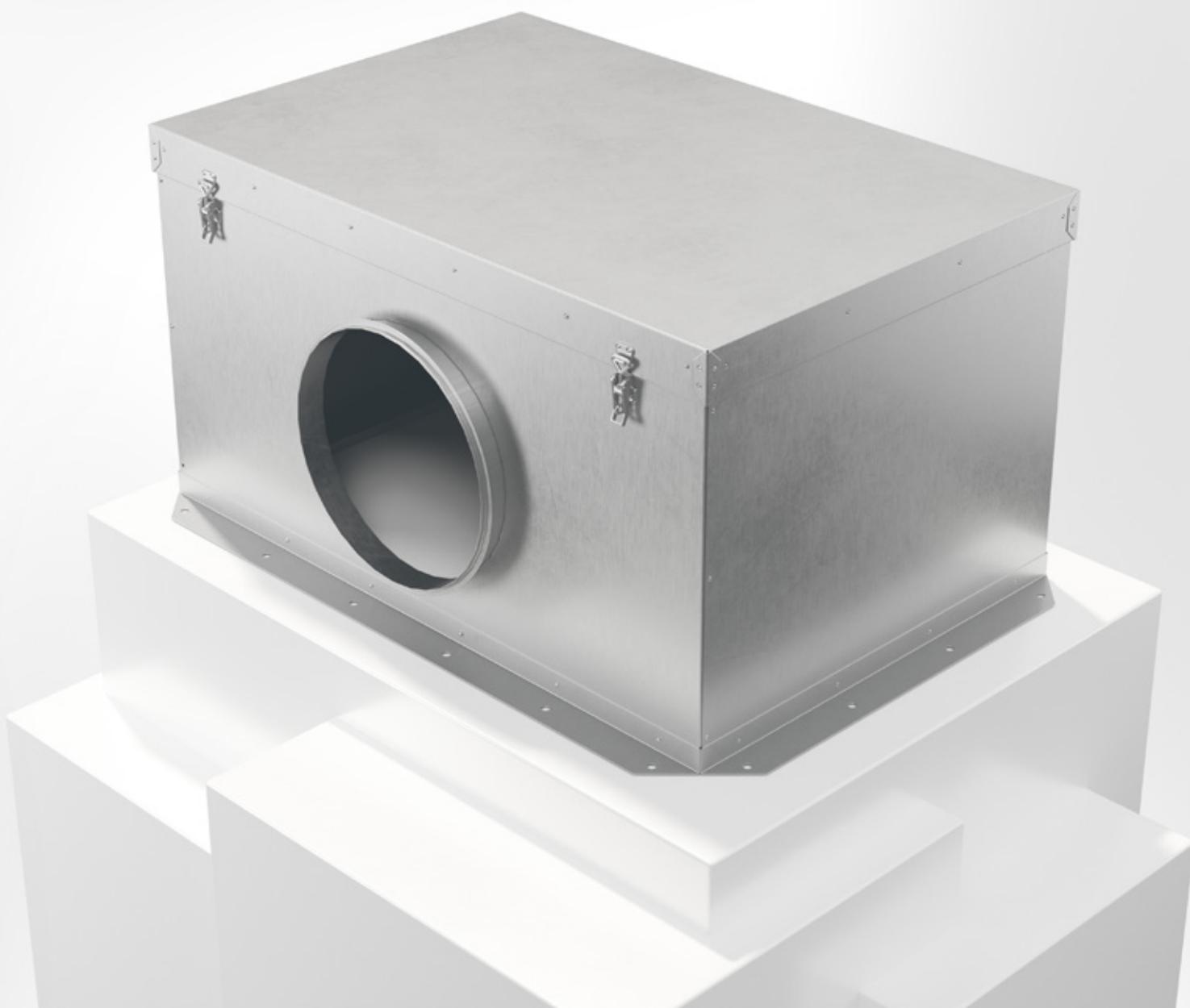


# BRSL

Manifold distribution box for FIDs



FIRE SAFETY



30/09/2021

[www.bevent-rasch.com](http://www.bevent-rasch.com)



**BEVENT RASCH**

AIR SOLUTIONS – FOR A BETTER TOMORROW



## Quick facts

- 9 standard sizes, from 400 x 400 mm to 1200 x 600 mm (see table)
- Sizes can be customised on request
- Insulation equivalent to fire class EI30
- Fire insulated hatch facilitates access when cleaning and inspection

## Use

BRSL can be used in combination with our back draught dampers for FIDs. BRSL is intended for placement on loft ceiling beams or in the roof of the basement and is used as a manifold distribution box for air from one or more riser ducts, or for the distribution of air to ducts. BRSL is available in 9 standard designs.

Bevent Rasch production is flexible in order to adapt to produce special designs and we work with a variety of materials and thicknesses and we also have our own powder coating plant to finish the products according to your wishes.

BRSL is made of galvanized sheet steel with internal sound damping fire insulation equivalent to fire class EI30. The box is delivered as standard internally clad with insulation that has a type-approved PROTEC® surface layer. Other insulation options are available on request. The spigot are adapted to the size of the manifold distribution box and the number of riser ducts.

The hatch on BRSL is manufactured with eccentric locks and are lockable with a padlock or similar locking device. The hatch is fitted with sealing strips. The hatch covers the whole manifold distribution box to provide the best possible access for inspection or cleaning of the duct system.

## Specification

Examples:

**Manifold distribution box BRSL - 800 - 400 - 1**

Size

Width x Depth (W x D), mm \_\_\_\_\_  
(See the table for standard measurements)

Sleeve placement

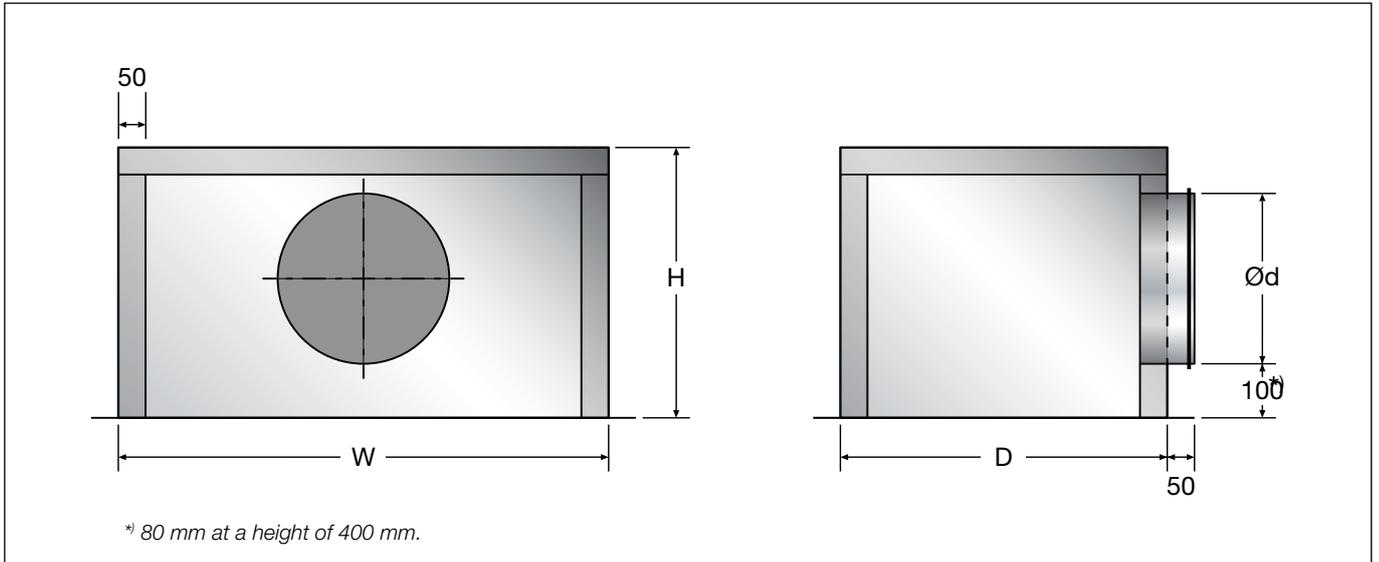
Wide side = 1 | \_\_\_\_\_

Depth side = 2 | \_\_\_\_\_

*To order other dimensions than the standard design, state the measurements in the form Width - Depth - Height - Connection dimensions - Spigot placement.*



**Dimensions**



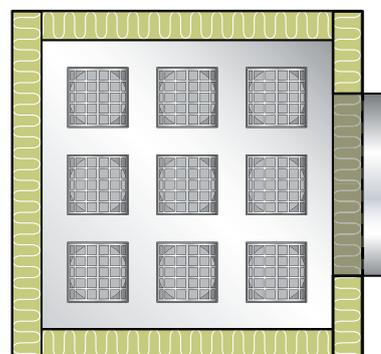
**Dimensions and attenuation**

Width (B) mm	Depth (D) mm	Height (H) mm	Connection		Recommended max number of riser ducts Dimensions Ø mm					
			Wide side Ød mm	Depth side Ød mm	80	100	125	160	200	250
400	400	400	250	250	3	2	2	-	-	-
600	400	400	250	250	6	5	3	2	-	-
	600	500	315	315	10	9	6	4	3	2
800	400	500	315	250	9	7	5	3	2	-
	600	500	315	315	16	12	9	6	4	3
1000	400	600	400	250	12	9	6	4	3	2
	600	600	400	400	22	16	12	8	6	4
1200	400	600	400	250	15	10	8	5	4	2
	600	600	400	400	27	21	15	10	7	5

**Insert attenuation**

Insert attenuation in octave band dB							
Mid frequency Hz							
63	125	250	500	1000	2000	4000	8000
21	19	20	20	18	19	23	22

**Principle placement in manifold distribution box BRSL**

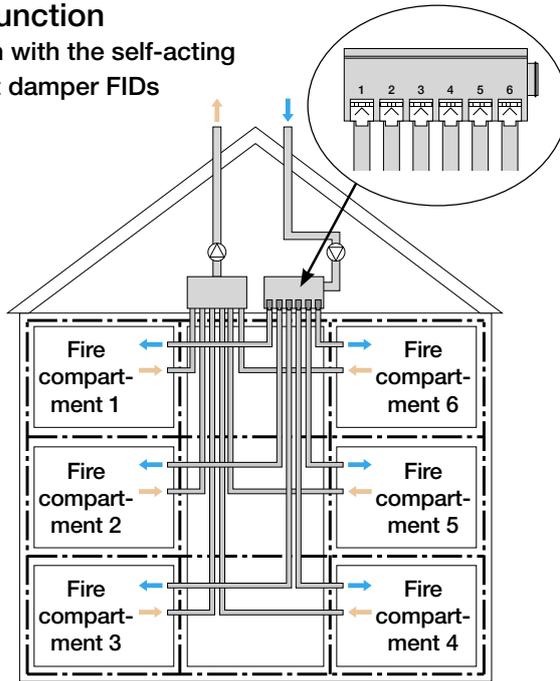


**Examples:**

Manifold distribution box BRSL size 600x600.  
With insulation equivalent to fire class EI30.  
Accommodates 9 pcs. FIDs Ø100.



## Principal function in connection with the self-acting back draught damper FIDs



<< Figure 1  
Back draught dampers are installed on the manifold distribution box on ducts leading to fire compartments and prevent smoke from spreading to other fire compartments. During normal operation the intake air flow passes through the damper.

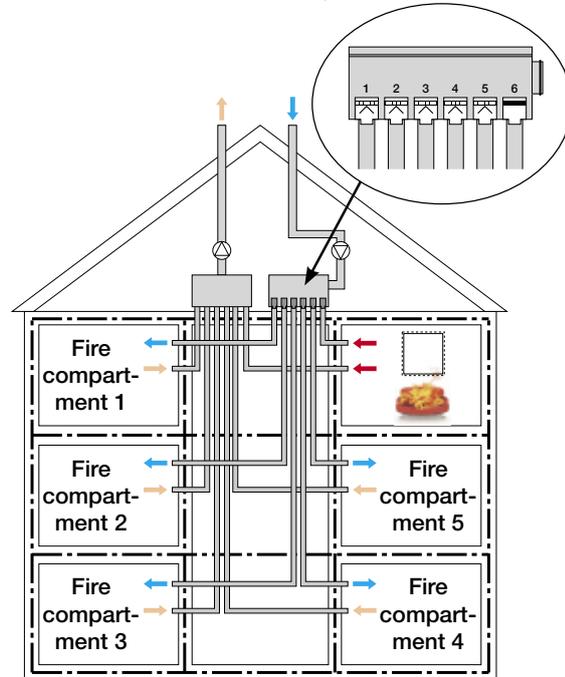
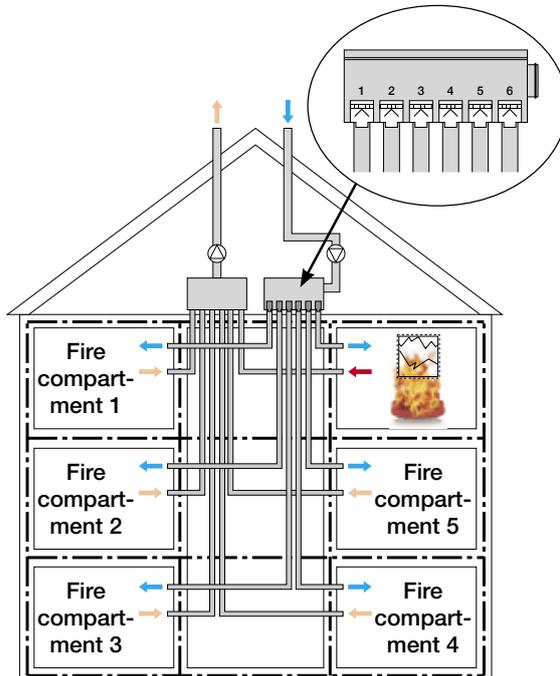


Figure 2 >>  
In the figure, when the fire creates overpressure (in fire compartment 6 in the figure), the back draught damper in the intake air duct will close. Smoke is ventilated out via the installation's exhaust air system.



<< Figure 3  
When the overpressure in the fire compartment subsides, the damper opens again. Now the fire compartment is ventilated primarily via the normal flow and the fan's counter pressure prevents the combustion gases from spreading to the intake air side.