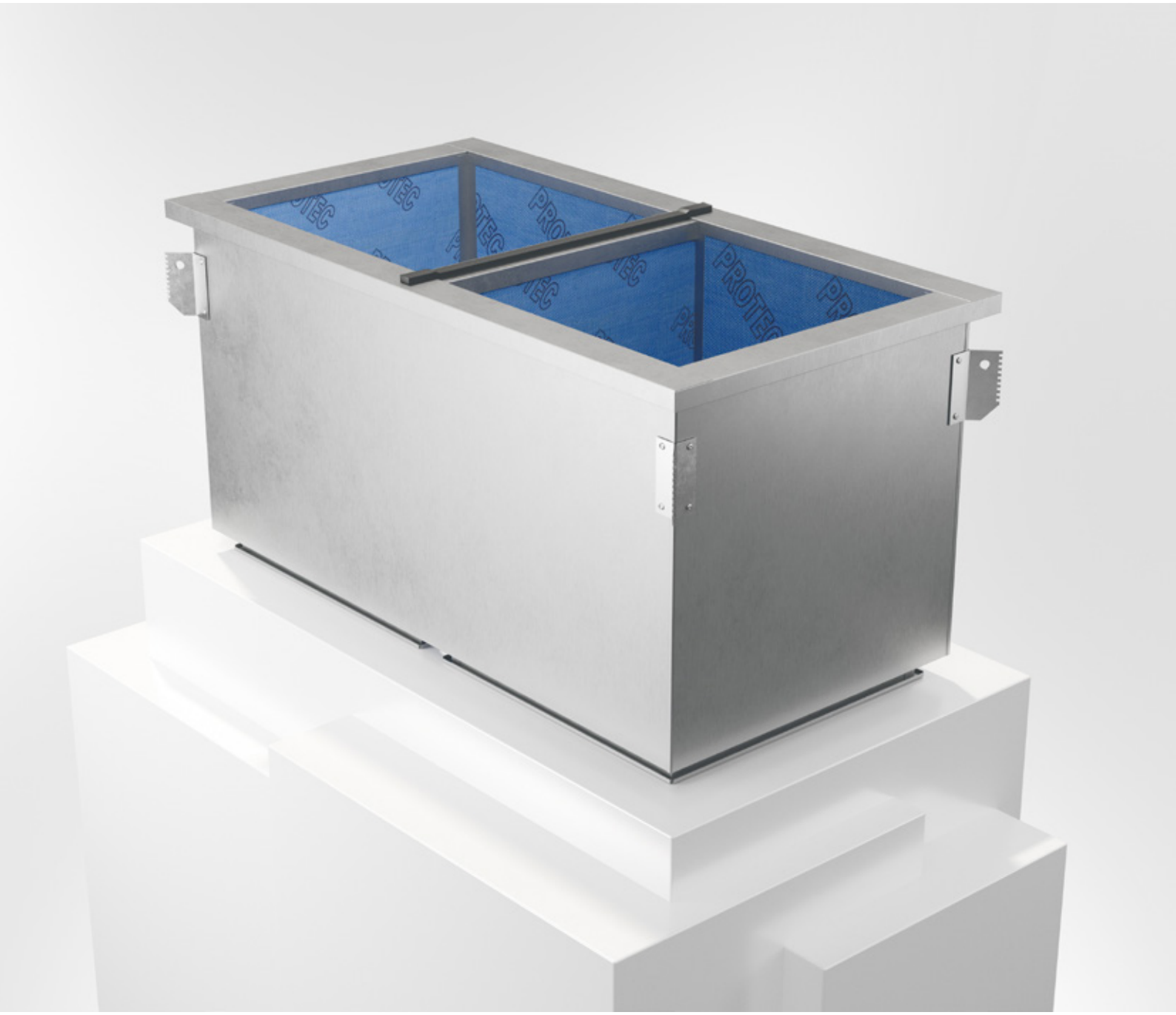
BRTF

Roof Inlet

COWLS



20/02/2025

Roof Inlet BRTF

Quick facts

- Sizes from 200 to 2000 (size 200 corresponds to 200-200 mm per connection at the bottom)
- 50 mm insulation on the inside as standard, with cleanable surface coating Protec
- Standard heights: 800, 1000, 1200, 1500 mm (can be customized)
- Lifting fittings mounted at factory from size 800, see lifting instructions on www.bevent-rasch.com
- Slip joint connection at the bottom
- Two attached scales are included for adaption to roof pitch
- The roof inlet can, from size 500, be supplemented with sound reduction baffles
- Can be ordered in optional sizes, in both square and rectangular versions and also in an extended version.
- Available in MagiCAD

Use

BRTF is a roof inlet with two duct connections, exhaust and intake air, intended to be used with our combination cowls. The duct connections are provided with slip joints. There is 50 mm of insulation on the inside, and interior cladding of type-approved surface coating, PROTEC®, which is cleanable and fibre safe. Two attached scales are included for adaptation to roof pitch.
The product can be ordered with cable channel. The location of the channel is indicated with a warning symbol and the text ”cable channel”. The customer then drills holes for the cable in the marked area.

Sound reduction

The roof inlet can, from size 500, be supplemented with sound reduction baffles to increase sound reduction ability. The length of the sound reduction baffles are equal to th length of the roof inlet minus 200 mm.

Specification

Example:
Roof Inlet **BRTF - 300 - 1 - 0 - 0 - 800 - 3**

Size, see size table

Material:
Galvanized sheet steel = 1
Stainless AISI 316L – EN 1.4404 = 3
Magnelis ZM120 C4 = 5

Internal lining:
Type-approved surface coating PROTEC® = 0
Sheet steel = 2

Sound reducing baffles: No = 0
Yes = 1

(Sound reducing baffles also in the intake air section must be stated i plain text)

Height: 800, 1000, 1200 or 1500 mm

Insulation:
50 mm = 3
50 mm, incl. cable channel = 4
100 mm = 6
100 mm, incl. cable channel = 7

Accessories:
Non-return damper BRRB
Sleeve coupling BRSA

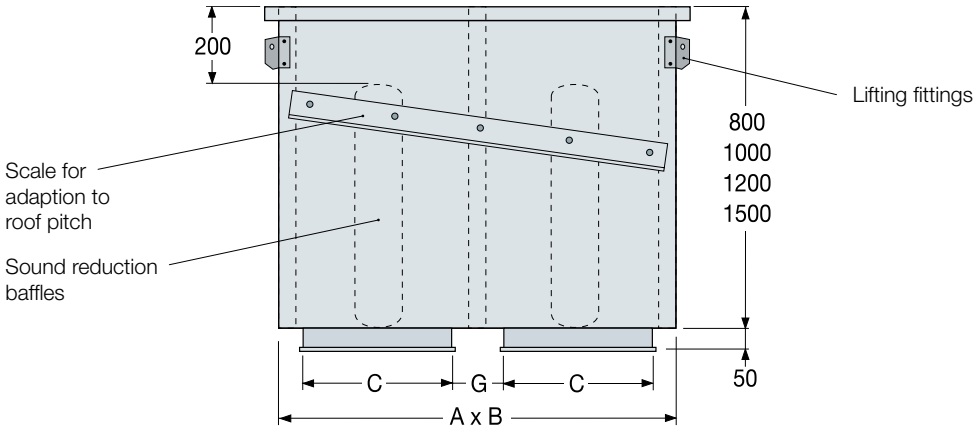
Material, surface treatment

The roof inlet is manufactured as standard in galvanized sheet steel. It can also be manufactured in stainless steel EN 1.4404 (AISI 316L) or Magnelis ZM120 C4.
Insulation: Stone wool board, density 80 kg/m3 with type-approved surface coating PROTEC.

Special

The roof inlet can be supplied in many different special designs in terms of size, material selection, etc.
Contact Bevent Rasch.

Dimensions



Cut-out size = A+20 x B+20
Connection size = C

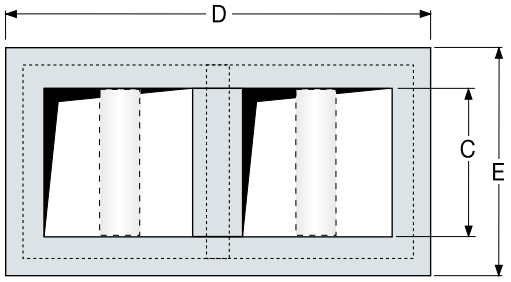


Image shows version with baffles, the number of baffles depends on size.

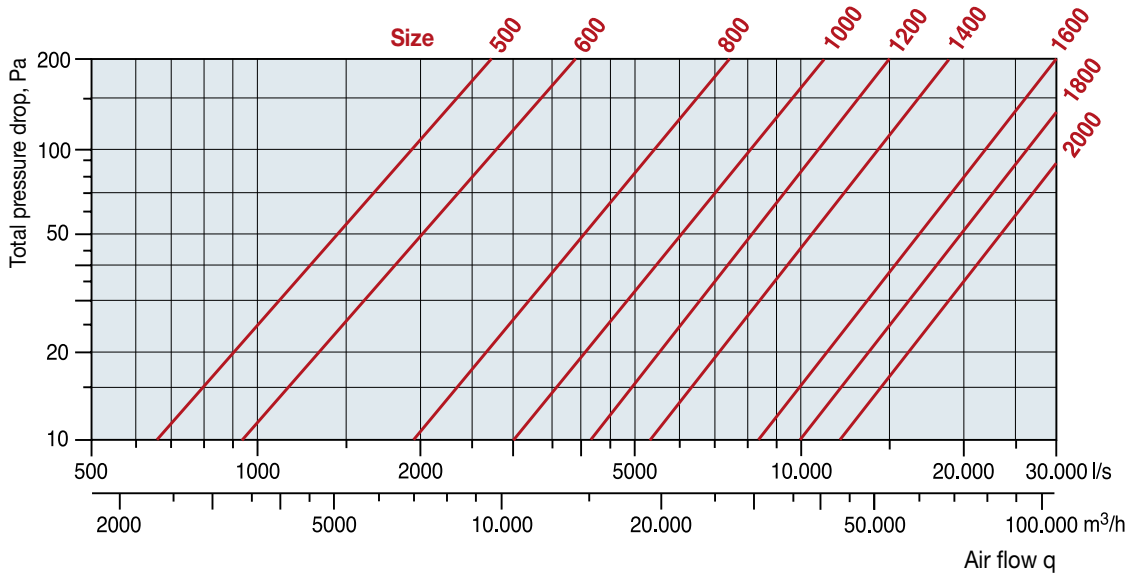
Size	A	B	C Insulation, mm		D	E	G Insulation, mm		Weight, kg *) Insulation, mm		Weight with baffle, kg **) Insulation, mm	
			50	100			50	100	50	100	50	100
200	660	310	200	–	795	395	150	–	36	–	–	–
300	860	410	300	–	995	495	150	–	45	–	–	–
400	1060	510	400	300	1195	595	150	250	55	64	–	–
500	1260	610	500	400	1395	695	150	250	60	71	66	–
600	1460	710	600	500	1595	795	150	250	68	80	78	90
800	1860	910	800	700	1995	995	150	250	85	101	98	101
1000	2260	1110	1000	900	2395	1195	150	250	105	125	129	185
1200	2660	1310	1200	1100	2795	1395	150	250	130	154	160	220
1400	3060	1510	1400	1300	3195	1595	150	250	150	178	195	255
1600	3460	1710	1600	1500	3595	1795	150	250	167	215	215	325
1800	3860	1910	1800	1700	3995	1995	150	250	186	222	240	350
2000	4260	2110	2000	1900	4395	2195	150	250	205	250	285	405

[1] Valid for 50 mm insulation
*) Stated weights are valid for height 800 mm, in standard design.
Weights for other lengths can be calculated using following formula:
Weight / 8 x new length in dm
**) Stated weights are valid for height 800 mm, in standard design.
Weights for other lengths, contact Bevent Rasch.
– = Not available with baffle.

Roof Inlet BRTF

Selection chart

Applicable for BRTF, insulated 50 mm, with sound reducing baffle and internal surface coating PROTEC®.



Insert sound reduction without baffle

Roof inlet length = 800 mm, insulated 50 mm and internal surface coating PROTEC®

Size	Insert sound reduction in octave band dB Mid frequency Hz							
	63	125	250	500	1000	2000	4000	8000
200	0	4	9	20	26	19	10	7
300	0	3	8	14	18	14	8	6
400	0	2	6	10	12	8	6	6
500	0	2	6	9	12	8	6	6
600	0	2	5	8	10	6	4	4
800	0	1	3	6	9	5	2	2

Size 1000-2000, sound reduction = 0

Insert sound reduction with baffle, size 6-21

Roof inlet insulated 50 mm and internal surface coating PROTEC®. Baffle length = Roof inlet length -200 mm.

Roof inlet length (mm)	Insert reduction in octave band dB Mid frequency Hz							
	63	125	250	500	1000	2000	4000	8000
800	3	7	12	19	25	27	18	14
1000	3	8	13	21	28	31	20	16
1200	3	9	15	24	32	35	23	18
1500	5	11	18	29	38	41	27	21

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