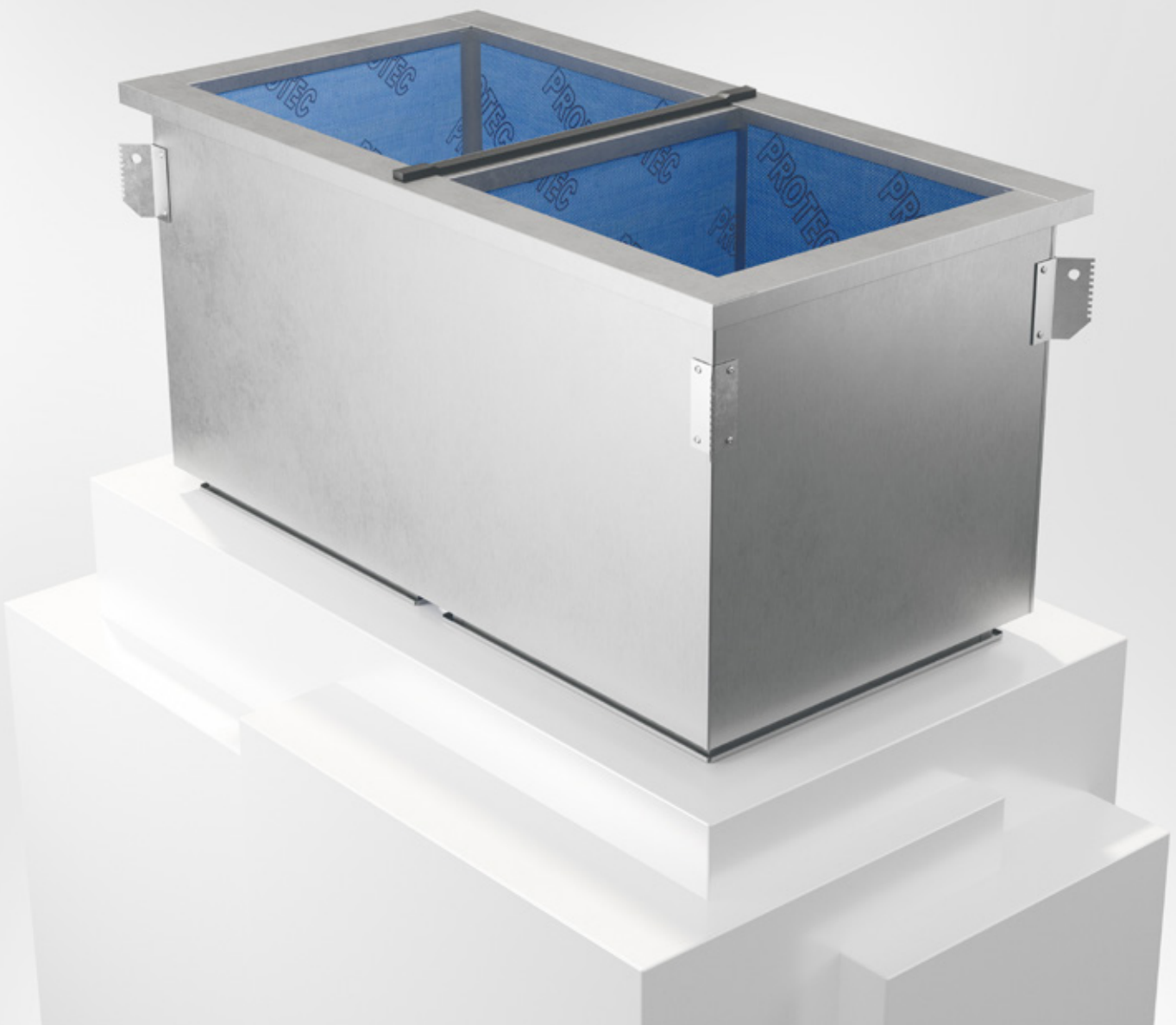


BRTF

Roof Inlet



COWLS



25/05/2023



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, corresponding to fire class EI30 and 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, corresponding to fire class EI30 and interior cladding of typ-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 the 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
Aluzink AZ185	= 4
Magnelis C5	= 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 in plain text)

Height: 800, 1000, 1200 or 1500 mm

Insulation:

50 mm, Fire class EI30	= 3
50 mm, Fire class EI30, incl. cable channel	= 4
100 mm, Fire class EI60	= 6
100 mm, Fire class EI60, incl. cable channel	= 7

Accessories:

Non-return damper BRRB

Sleeve coupling BRSA

Material, surface treatment

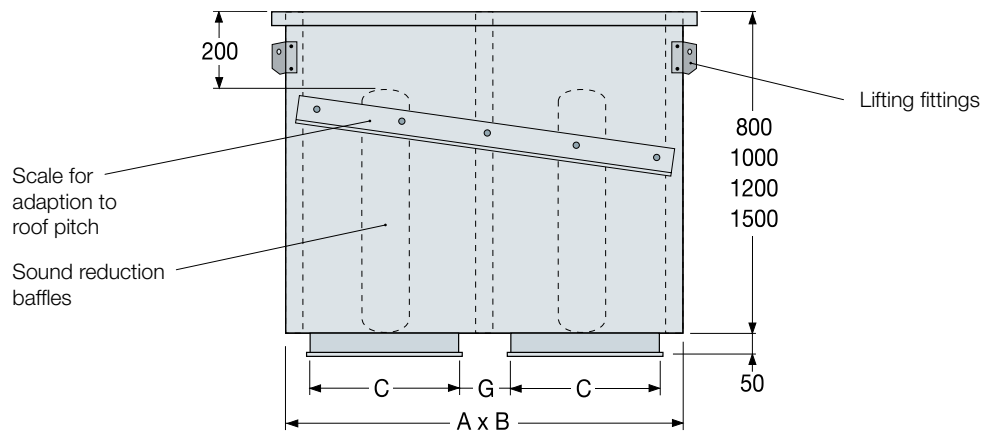
The roof inlet is manufactured as standard in galvanized sheet steel. It can also be manufactured in aluzink AZ185, stainless steel EN 1.4404 (AISI 316L) or Magnelis C5.

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 = $A+20 \times B+20$
 Connection size = C

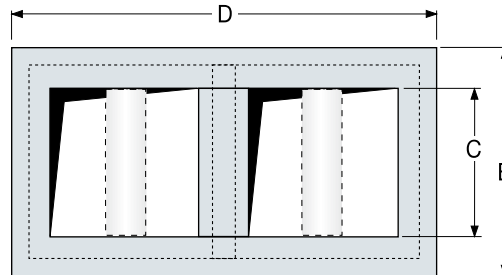


Image shows version with baffles, the number of baffles depends on size.

Size	A	B	C		D	E	G		Weight, kg ^{*)}		Weight with baffle, kg ^{**)}	
			Insulation, mm				Insulation, mm		Insulation, mm		Insulation, mm	
			50 ¹⁾	100 ²⁾			50 ¹⁾	100 ²⁾	50 ¹⁾	100 ²⁾	50 ¹⁾	100 ²⁾
200	660	310	200	–	745	395	150	–	36	–	–	–
300	860	410	300	–	945	495	150	–	45	–	–	–
400	1060	510	400	300	1145	595	150	250	55	64	–	–
500	1260	610	500	400	1345	695	150	250	60	71	66	–
600	1460	710	600	500	1545	795	150	250	68	80	78	90
800	1860	910	800	700	1945	995	150	250	85	101	98	101
1000	2260	1110	1000	900	2345	1195	150	250	105	125	129	185
1200	2660	1310	1200	1100	2745	1395	150	250	130	154	160	220
1400	3060	1510	1400	1300	3145	1595	150	250	150	178	195	255
1600	3460	1710	1600	1500	3545	1795	150	250	167	215	215	325
1800	3860	1910	1800	1700	3945	1995	150	250	186	222	240	350
2000	4260	2110	2000	1900	4345	2195	150	250	205	250	285	405

¹⁾ Fire class EI30

²⁾ Fire class EI60

³⁾ 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

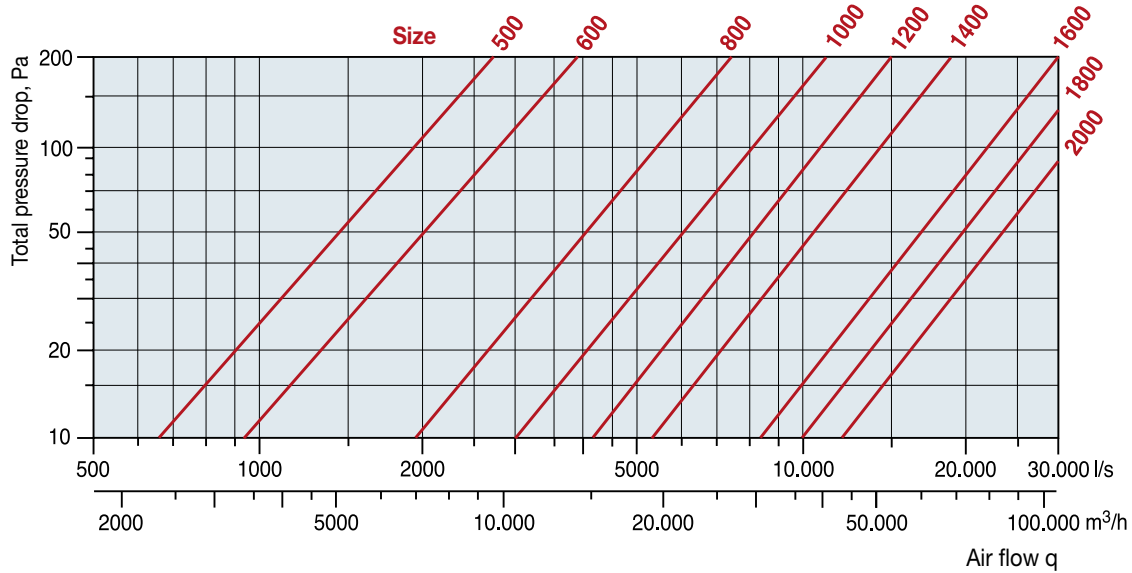
^{**)} Stated weights are valid for height 800 mm, in standard design.
 Weights for other lengths, contact Bevent Rasch.

– = Not available with baffle.



Selection chart

Applicable for BRTF, insulated 50 mm (fire class EI30), with sound reducing baffle and internal surface coating PROTEC®.



Insert sound reduction without baffle

Roof inlet length = 800 mm, insulated 50 mm (fire class EI30) 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 (fire class EI30) and internal surface coating PROTEC®. Baffle length = 600 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