

ABC-TGLD

SOUND-ATTENUATING ROOF DUCT



- Facilitates installation of single roof hoods
- Sound baffles made from type-approved mineral wool acoustic insulation
- Internally insulated with 50 mm or 100 mm high-density stone wool, with a cleanable surface layer
- Standard length: 800 mm
- Available in lengths of 1000, 1150, 1400 and 1600 mm
- Mounting brackets are included

USE

Sound-attenuated roof duct for installation of square roof cowls.

DESIGN

Internally insulated with 50 mm or 100 mm high-density stone wool, with a cleanable surface layer. The standard length is 800 mm. Also available in lengths of 1000, 1150, 1400 and 1600 mm. Mounting brackets are included.

The internal surface layer consists of type-approved synthetic fabric. ABC-TGLD is fitted with removable sound baffles made from type-approved mineral wool acoustic insulation. Normally manufactured in zinc-magnesium, but also available in other materials:

- Zinc-magnesium ZM120
- Zinc-magnesium ZM310
- Aluzinc
- Stainless steel
- Acid-resistant stainless steel

MAINTENANCE

Check the need for cleaning once a year.

EXAMPLE SPECIFICATION TEXT

VVS AMA

QLF.2

Sound-attenuated roof duct ABC-TGLD by Swegon.
Size 1000, manufactured in zinc-magnesium ZM120. Length 800 mm.
Stone wool insulation 50 mm.

ACCESSORIES



ABC-BP

Base plate for connecting a circular roof hood to roof duct ABC-TG.



ABC-BS

Backdraft damper for exhaust air.



ABC-ÖGKC

Tapered transition



ABC-BANS

Square duct connection.



ABC-IBZ

Burglar resistant grille

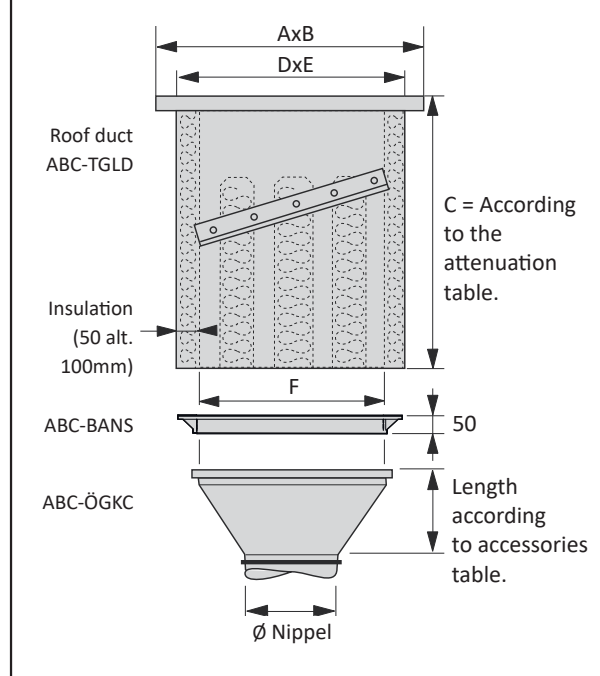
MEASUREMENTS/SIZE

Size ABC- TGLD	Weight kg 50mm isol. ¹ length 800	Weight kg 100mm isol. ² length 800	AxB	DxE	F 50mm ¹	F 100mm ¹
400	26		480x480	400x400	300	N/A
500	31	42	580x580	500x500	400	300
600	37	49	680x680	600x600	500	400
700	44	60	780x780	700x700	600	500
800	50	67	880x880	800x800	700	600
900	55	75	980x980	900x900	800	700
1000	69	90	1080x1080	1000x1000	900	800
1100	75	99	1180x1180	1100x1100	1000	900
1200	83	110	1280x1280	1200x1200	1100	1000
1300	89	118	1380x1380	1300x1300	1200	1100
1400	106	136	1480x1480	1400x1400	1300	1200
1500	113	145	1580x1580	1500x1500	1400	1300
1600	120	154	1680x1680	1600x1600	1500	1400
1700	128	166	1780x1780	1700x1700	1600	1500
1900	156	197	1980x1980	1900x1900	1800	1700
2100	171	216	2180x2180	2100x2100	2000	1900

Roof opening for the roof duct = DxE + 20 mm. For pitched roofs, see the roof opening table.

¹ 50 mm high-density stone wool insulation with a cleanable surface layer.

² 100 mm high-density stone wool insulation with a cleanable surface layer.



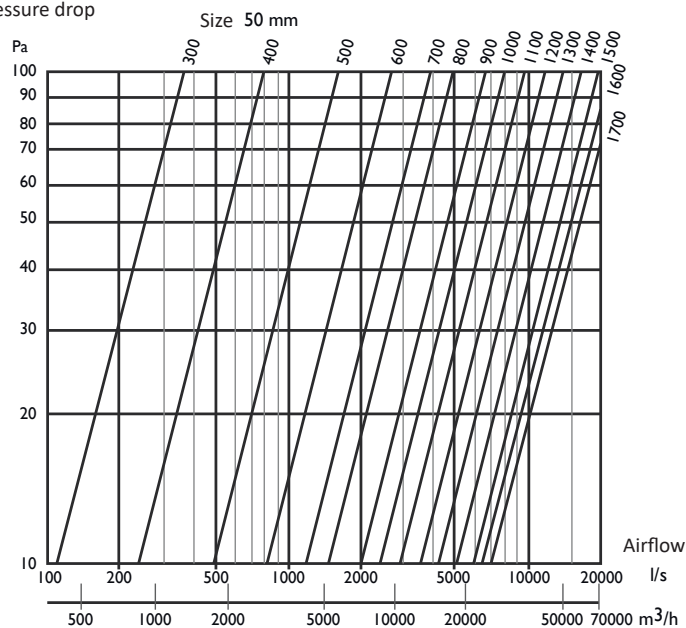
DIMENSIONING

The stated data are indicative values.

ATTENUATION TABLE

C LENGTH ABC-TGLD	ATTENUATION dB						
	63 Hz	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz
800	2,5	4	11	22	29	27	17
1000	3	5	13	27	37	33	21
1150	3,5	6	16	32	43	40	24
1400	4	7	18	38	51	47	28
1600	5	8	21	43	58	53	32

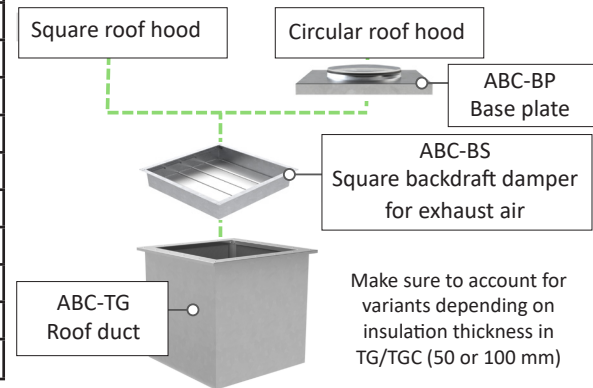
Pressure drop



ACCESSORIES WITH ROOF DUCT ABC-TGLD 50 mm

Square single roof hood – Size	ABC-TGLD ¹ Size	ABC-BP (for circular roof hood)	ABC-BS	ABC-BANS ¹ 50mm	ABC-ÖGKC Ød spigot connection
300	400	500 ≤ Ø315	300 x 300	400	300x300 ≤ Ø315 (Length 400mm)
400	500	600 ≤ Ø400	400 x 400	500	400x400 ≤ Ø315 (Length 400mm)
500	600	700 ≤ Ø500	500 x 500	600	500x500 ≤ Ø400 (Length 400mm)
600	700	800 ≤ Ø500	600 x 600	700	600x600 ≤ Ø500 (Length 600mm)
700	800	900 ≤ Ø630	700 x 700	800	700x700 ≤ Ø630 (Length 600mm)
800	900	1000 ≤ Ø800	800 x 800	900	800x800 ≤ Ø800 (Length 600mm)
900	1000	1100 ≤ Ø800	900 x 900	1000	900x900 ≤ Ø800 (Length 600mm)
1000	1100	1200 ≤ Ø1000	1000 x 1000	1100	1000x1000 ≤ Ø1000 (Length 600mm)
1100	1200	1300 ≤ Ø1000	1100 x 1100	1200	1100x1100 ≤ Ø1000 (Length 600mm)
1200	1300	1400 ≤ Ø1250	1200 x 1200	1300	1200x1200 ≤ Ø1250 (Length 600mm)
1300	1400	1500 ≤ Ø1250	1300 x 1300	1400	1300x1300 ≤ Ø1250 (Length 600mm)
1400	1500	1600 ≤ Ø1250	1400 x 1400	1500	1400x1400 ≤ Ø1250 (Length 600mm)
1500	1600	1700 ≤ Ø1250	1500 x 1500	1600	1500x1500 ≤ Ø1250 (Length 600mm)
1600	1700	1800 ≤ Ø1500	1600 x 1600	1700	1600x1600 ≤ Ø1250 (Length 600mm)
1800	1900		1800 x 1800	1900	
2000	2100		2000 x 2000	2100	

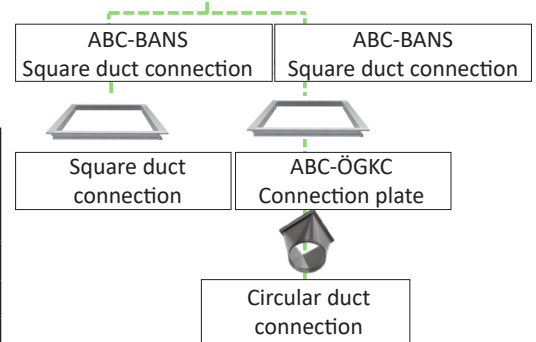
¹ 50 mm high-density stone wool insulation with a cleanable surface layer.



ACCESSORIES WITH ROOF DUCT ABC-TGLD 100 mm

Square single roof hood – Size	ABC-TGLD ² Size	ABC-BP (for circular roof hood)	ABC-BS	ABC-BANS ² 100mm	ABC-ÖGKC Ød spigot connection
400	500	600 ≤ Ø400	300 x 300	500	300x300 ≤ Ø315 (Length 400mm)
500	600	700 ≤ Ø500	400 x 400	600	400x400 ≤ Ø315 (Length 400mm)
600	700	800 ≤ Ø500	500 x 500	700	500x500 ≤ Ø400 (Length 400mm)
700	800	900 ≤ Ø630	600 x 600	800	600x600 ≤ Ø500 (Length 600mm)
800	900	1000 ≤ Ø800	700 x 700	900	700x700 ≤ Ø630 (Length 600mm)
900	1000	1100 ≤ Ø800	800 x 800	1000	800x800 ≤ Ø800 (Length 600mm)
1000	1100	1200 ≤ Ø1000	900 x 900	1100	900x900 ≤ Ø800 (Length 600mm)
1100	1200	1300 ≤ Ø1000	1000 x 1000	1200	1000x1000 ≤ Ø1000 (Length 600mm)
1200	1300	1400 ≤ Ø1250	1100 x 1100	1300	1100x1100 ≤ Ø1000 (Length 600mm)
1300	1400	1500 ≤ Ø1250	1200 x 1200	1400	1200x1200 ≤ Ø1250 (Length 600mm)
1400	1500	1600 ≤ Ø1250	1300 x 1300	1500	1300x1300 ≤ Ø1250 (Length 600mm)
1500	1600	1700 ≤ Ø1250	1400 x 1400	1600	1400x1400 ≤ Ø1250 (Length 600mm)
1600	1700	1800 ≤ Ø1500	1500 x 1500	1700	1500x1500 ≤ Ø1250 (Length 600mm)
1800	1900		1700 x 1700	1900	
2000	2100		1900 x 1900	2100	

² 100 mm high-density stone wool insulation with a cleanable surface layer.



INSTALLATION INSTRUCTIONS TG, TGLD, TGTH

Figure 1:

Cut an opening in the roof according to the size of the roof duct, $D \times E + 20$ mm.

(D & E dimensions – see product datasheet)

Consider the roof pitch!

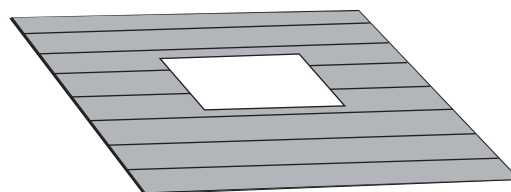


Figure 2:

Attach the mounting brackets to each side of the roof duct on the top side of the roof using one screw in the centre.

Use a spirit level to align the roof duct horizontally, then secure the brackets with additional screws.

NOTE!

Minimum 300–500 mm
at the rear, or
above snow level

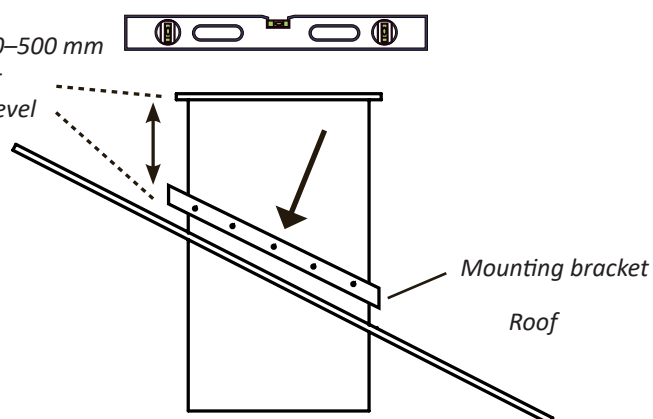


Figure 3:

Seal the roof duct to the roof using standard methods. We recommend covering the sides of the roof duct above the roof with plywood boards. Design the rear side of the flashing with a slope to prevent water from pooling.

NOTE!

Ensure a slope on the flashing.

