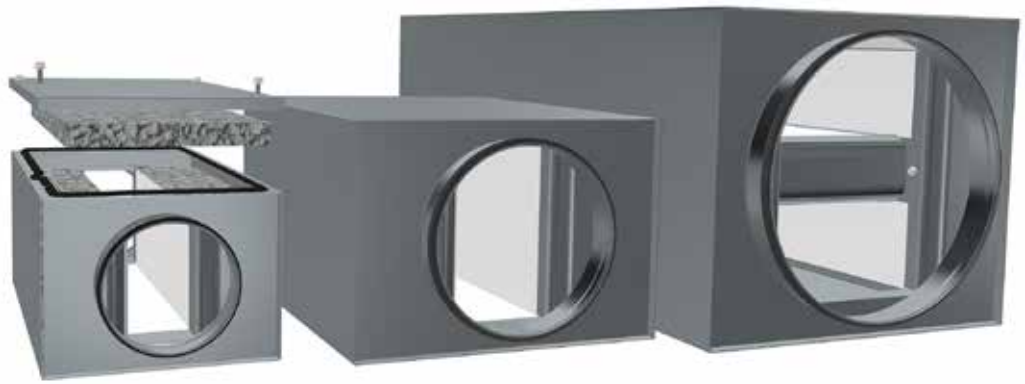
Circular straight low-built silencer KVDPX



Description

KVDPX is a rectangular attenuator with circular connections and a low installation height.

Attenuation material is **Acutec® polyester**. The KVDPX´s are made from galvanized steel sheet. Attenuator can be cleaned by rotating nylon brushes, vacuum cleaner or damp cloth. Openable model; can be used as a cleaning door and possible to replace the acoustic infill.

Fulfils tightness class C.

Tested according to ISO 7235 standard.

Perforated sheet on top of the acoustic material, special materials, sizes and flanges on request. Please contact Lindab sales.

The KVDPX comes in four different designs. Model 1 and 2 sizes Ø400 - 630 mm are equipped with centre splitter.

Model:

1. = Special attenuator with **Acutec® Plus** attenuation material.
2. = Special attenuator with **Acutec® Plus** attenuation material. Openable, attenuation material changeable.
3. = Attenuator with **Acutec®** attenuation material.
4. = Attenuator with **Acutec®** attenuation material. Openable, attenuation material changeable.

To select the appropriate attenuator and optimize connection size and length for the best performance please use our online tool **LindQST**.

For more info visit www.lindqst.com

Order code

Product **KVDPX** **d** **l** **m**

KVDPX

Connection (d), in mm ($Ød_{1\ nom}$)

100 – 630

Length (l), in mm (l_{nom})

300, 600 and 1000 mm (Ø100 - 200 mm)

600 and 1000 mm (Ø250 - 315 mm)

600 and 1250 mm (Ø400 - 630 mm)

Model (m)

1, 2, 3, 4

Example: KVDPX - 200 - 1000 - 1

EUROVENT CERTIFIED PERFORMANCE
DUCT-MC
Identification number 17.11.002
www.eurovent-certification.com

2021-12-15

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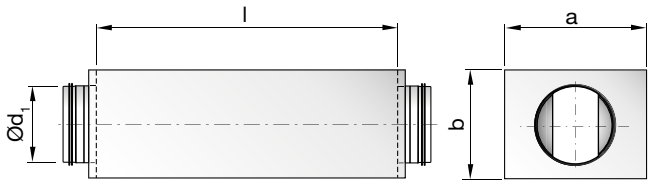
Dimensions



Dimensions and sound data

KVDPX model 1 & 2

Ød1 [nom]	l [mm]	a × b [mm]	[mm]	Insertion loss [dB] for centre frequency [Hz] 63	125	250	500	1k	2k	4k	8k	Model 1 [kg]	2 [kg]
100	300	252	154	10	11	12	15	25	19	19	14	1,7	2,2
100	600	252	154	14	19	16	21	32	40	37	35	2,8	3,7
100	1000	252	154	19	26	24	30	44	50	50	46	4,3	5,8
125	300	263	177	5	10	9	14	22	17	15	12	2,3	2,4
125	600	263	177	14	15	16	20	33	38	37	27	3,9	4,1
125	1000	263	177	19	21	22	30	45	50	50	45	5,9	6,3
160	300	280	212	6	8	7	12	18	14	10	9	3,2	3,3
160	600	280	212	12	10	12	19	31	33	27	22	5,0	5,2
160	1000	280	212	17	18	21	30	43	48	46	36	7,4	7,8
200	300	361	253	5	7	8	14	12	11	8	8	4,3	4,5
200	600	361	253	12	7	13	19	29	26	21	17	6,8	7,1
200	1000	361	253	21	14	21	28	42	42	35	25	10,1	10,7
250	600	431	303	8	7	12	19	22	21	16	13	8,5	9,0
250	1000	431	303	15	11	18	27	40	38	25	20	12,4	13,2
315	600	458	368	8	6	11	19	20	16	12	12	9,9	10,4
315	1000	458	368	12	10	18	27	35	28	20	16	14,5	15,2
400	600	518	453	8	6	11	18	24	23	17	18	16,1	16,9
400	1250	518	453	13	11	18	32	43	44	28	26	27,1	28,6
500	600	702	555	4	6	12	16	15	12	8	9	23,5	24,5
500	1250	702	555	7	12	20	27	26	20	12	13	39,4	41,4
630	600	851	684	4	5	11	13	15	12	8	9	27,7	28,9
630	1250	851	684	7	10	19	24	28	21	13	13	48,1	50,8

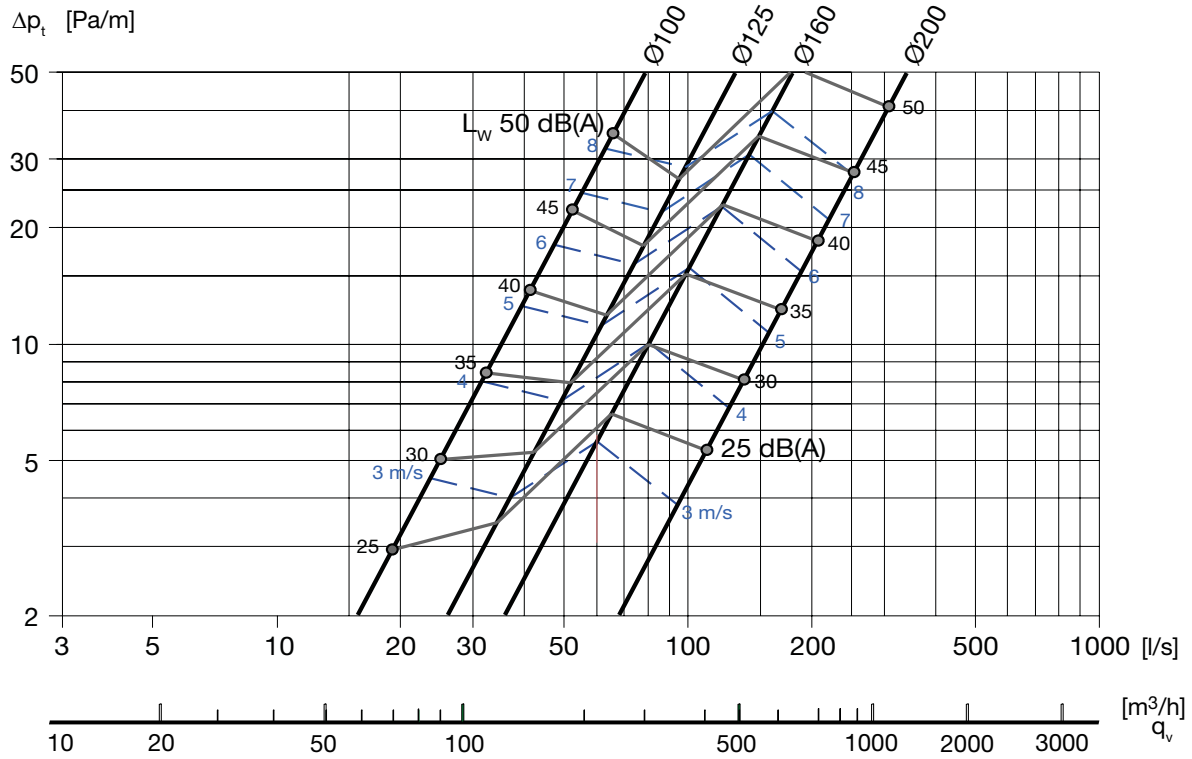
KVDPX model 3 & 4

Ød1 [nom]	l [mm]	a × b [mm]	[mm]	Insertion loss [dB] for centre frequency [Hz] 63	125	250	500	1k	2k	4k	8k	Model 3 [kg]	4 [kg]
100	300	252	154	10	10	10	14	23	17	17	13	1,6	2,1
100	600	252	154	14	16	15	20	30	35	33	30	2,6	3,5
100	1000	252	154	19	25	21	28	41	46	50	42	3,9	5,4
125	300	263	177	9	10	8	12	21	16	15	11	2,2	2,3
125	600	263	177	14	14	14	18	30	34	33	25	3,6	3,9
125	1000	263	177	18	20	20	26	41	46	50	42	5,5	5,9
160	300	280	212	4	8	6	11	17	13	9	8	3,0	3,2
160	600	280	212	11	9	11	17	28	30	24	17	4,7	5,0
160	1000	280	212	17	14	16	23	38	43	42	26	6,9	7,3
200	300	361	253	6	5	8	12	12	11	7	7	4,1	4,2
200	600	361	253	14	7	11	17	28	24	19	15	6,4	6,7
200	1000	361	253	17	12	17	23	38	38	31	22	9,4	10,0
250	600	431	303	6	7	11	18	22	19	14	13	7,9	8,4
250	1000	431	303	13	11	16	24	37	33	22	18	11,4	12,1
315	600	458	368	7	5	10	17	19	14	12	11	9,1	9,7
315	1000	458	368	11	9	15	23	32	24	18	15	13,2	13,9
400	600	518	453	5	5	8	16	15	10	8	9	13,3	14,2
400	1250	518	453	12	9	14	23	31	19	13	14	24,1	25,6
500	600	702	555	4	5	10	14	11	7	6	8	21,6	22,6
500	1250	702	555	7	9	18	25	22	14	11	13	36,2	38,1
630	600	851	684	3	5	10	11	8	6	6	6	25,9	27,1
630	1250	851	684	6	9	18	21	16	11	9	11	42,8	45,2

Circular straight low-built silencer KVDPX

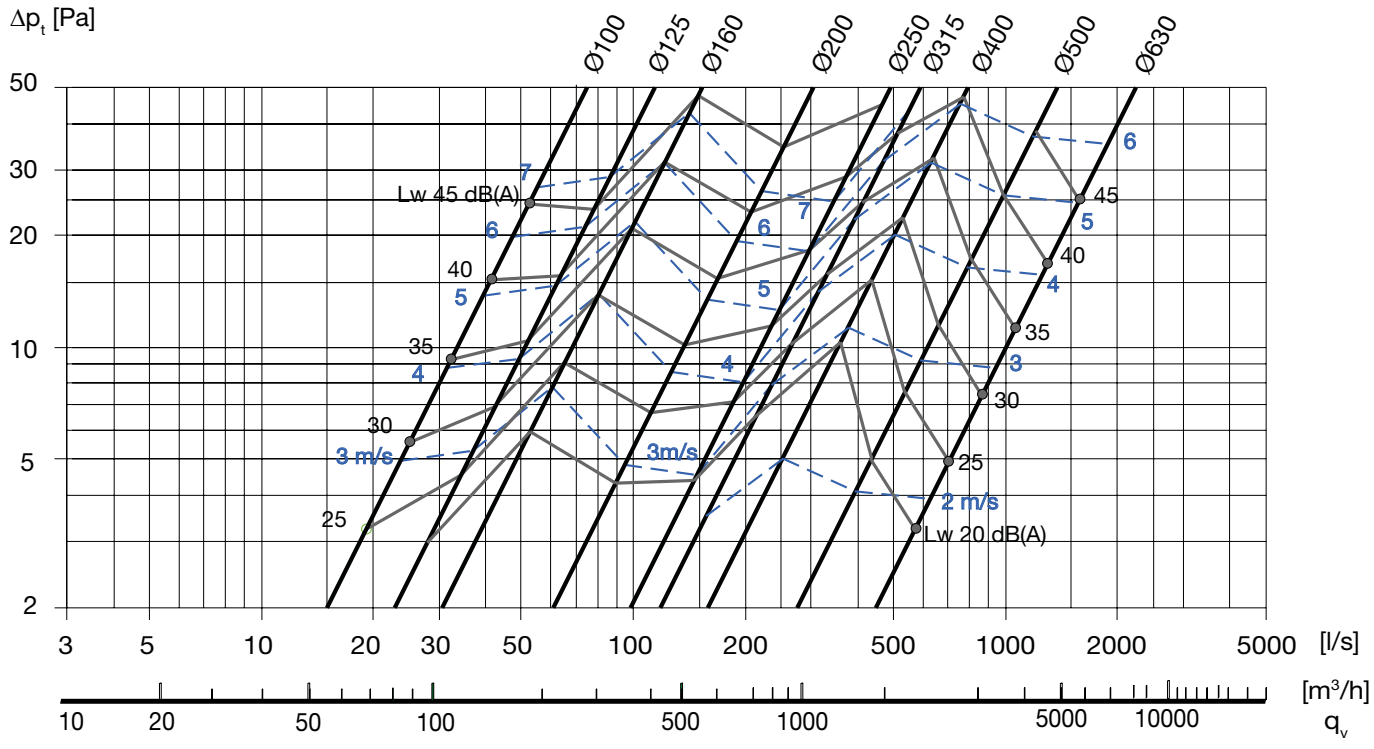
Model 1, 2, 3 and 4

Pressure loss and sound generation for 300 mm long attenuators



Model 1 and 2

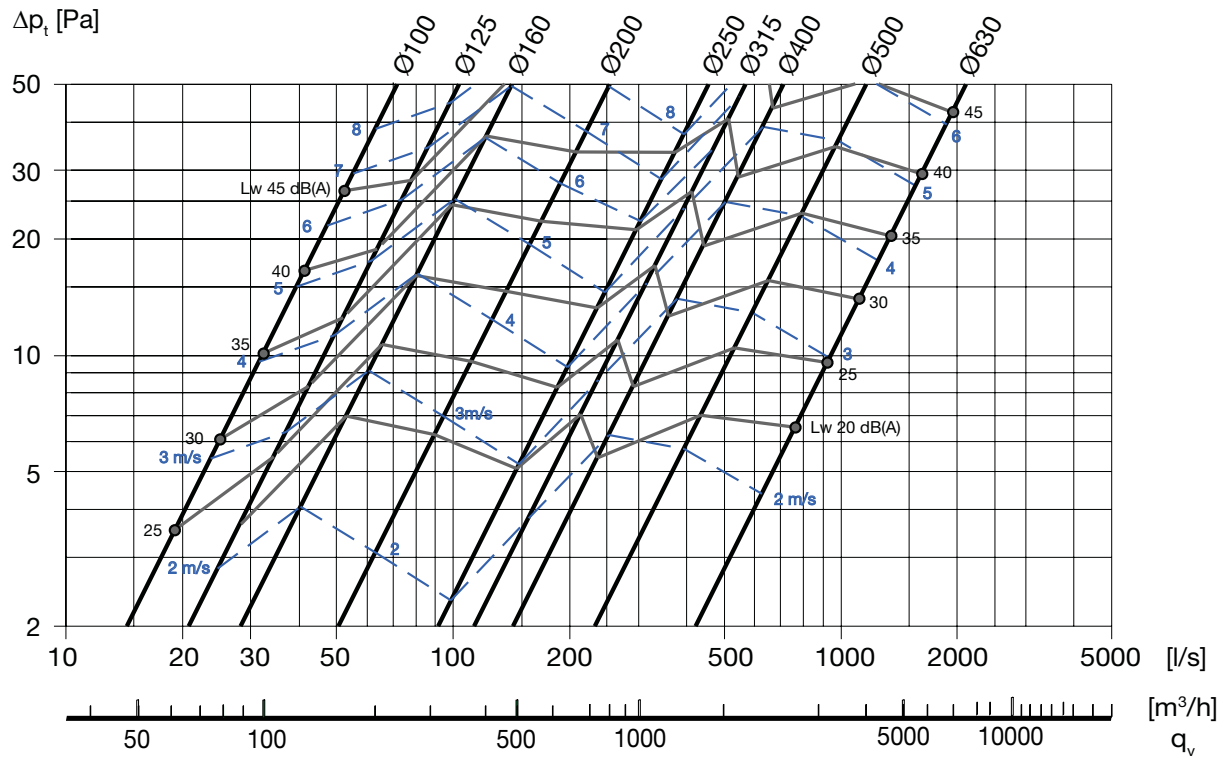
Pressure loss and sound generation for 600 mm long attenuators



Circular straight low-built silencer KVDPX

Model 1 and 2

Pressure loss and sound generation for 1000 and 1250 mm long attenuators (Ød$_1$ 400 - 630 → (l) = 1250 mm)



K$_{woct}$ correction tables model 1 and 2.

Ød$_1$ [mm]	Correction, K$_{Woct}$ (dB) for centre frequency [Hz]							
	63	125	250	500	1k	2k	4k	8k
63	1	5	1	-2	-5	-14	-20	-31
80	0	3	2	-1	-7	-12	-17	-28
100	2	5	-1	1	-9	-19	-24	-42
125	7	6	2	0	-9	-15	-21	-41
160	8	3	1	0	-8	-14	-19	-37
200	4	4	4	-1	-9	-13	-20	-31
250	5	3	1	-2	-5	-10	-16	-28
315	7	5	2	-3	-5	-11	-17	-30
400	12	6	2	-3	-6	-12	-19	-26
500	11	4	0	-2	-5	-11	-18	-27
630	11	4	0	-2	-5	-12	-20	-26
Tol.+/-	**3**	**3**	**2**	**3**	**3**	**4**	**4**	**5**

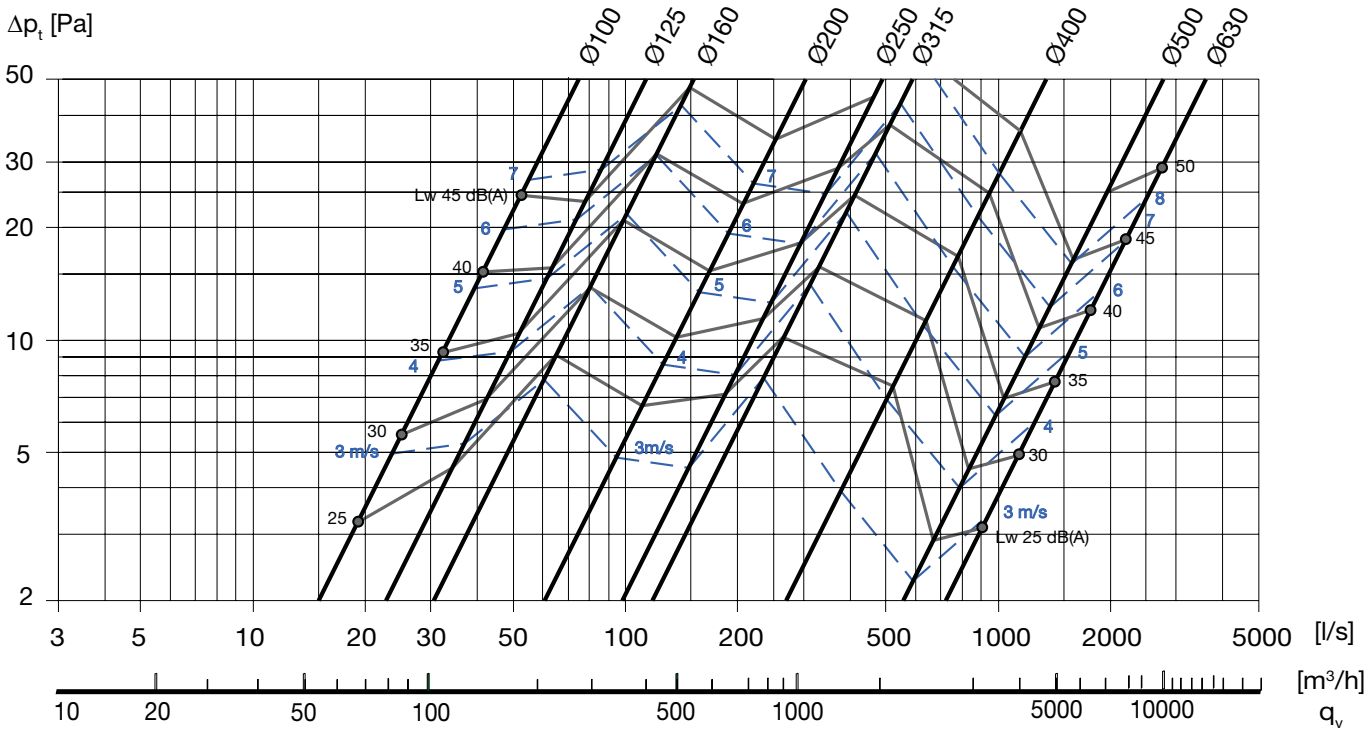
Sound power levels per octave band L_{Woct} are calculated by adding the octave band corrections K_{oct} to the total power level L_{WA} from the graphs.

$L_{Woct} = L_{WA} + K_{oct}$

Circular straight low-built silencer KVDPX

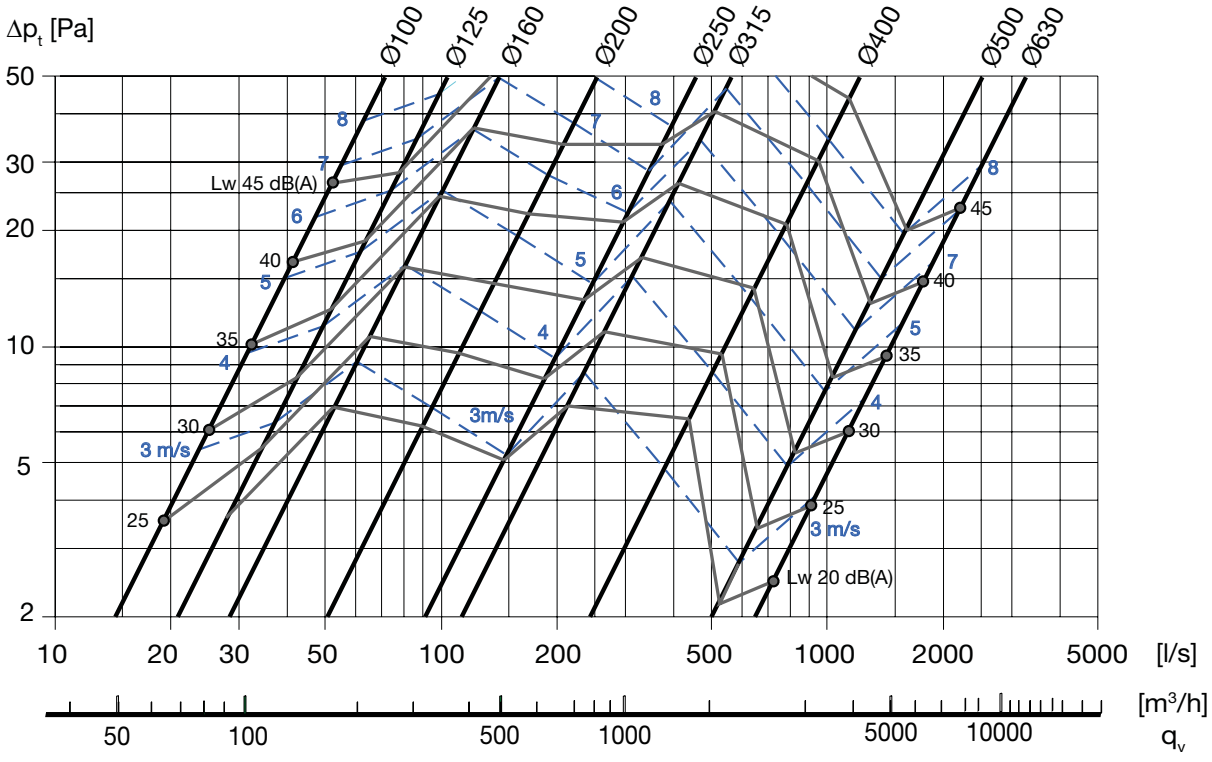
Model 3 and 4

Pressure loss and sound generation for 600 mm long attenuators



Model 3 and 4

Pressure loss and sound generation for 1000 and 1250 mm long attenuators (Ød$_1$ 400 - 630 → (l) = 1250 mm)



Circular straight low-built silencer KVDPX

K_{woct} correction tables model 3 and 4.

$Ød_1$ [mm]	Correction, K_{Woct} (dB) for centre frequency [Hz]							
	63	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**
63	1	5	1	-2	-5	-14	-20	-31
80	0	3	2	-1	-7	-12	-17	-28
100	2	5	-1	1	-9	-19	-24	-42
125	7	6	2	0	-9	-15	-21	-41
160	8	3	1	0	-8	-14	-19	-37
200	4	4	4	-1	-9	-13	-20	-31
250	5	3	1	-2	-5	-10	-16	-28
315	7	5	2	-3	-5	-11	-17	-30
400	10	6	2	-2	-6	-13	-21	-27
500	6	6	2	-2	-6	-14	-22	-39
630	7	7	2	-2	-6	-15	-22	-40
Tol.+/-	**3**	**3**	**2**	**3**	**3**	**4**	**4**	**5**

Sound power levels per octave band L_{Woct} are calculated by adding the octave band corrections K_{oct} to the total power level L_{WA} from the graphs.

$L_{Woct} = L_{WA} + K_{oct}$