

## NTF Round Silencer

NTF – rectangular silencer with round duct connections and without perforated sheet inside. Suitable for general ventilation system silencer, especially in situations where the silencer dimensions should be smaller and the absorption values should be good.

**Advantages:**

- Silencer's dimensions are minimized while maintaining excellent noise reduction characteristics.
- Low pressure drop due to streamlined geometry.
- Insulation material is resistant to cleaning (nylon brush).
- Insulation material coating does not absorb moisture.
- Fulfills tightness class D according to standard EN 15727:2010.
- NTF fire-resistance class E60. EI60 is met provided that the specified safety distances are maintained.



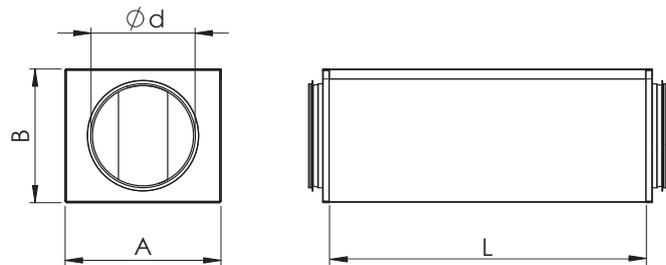
### Design and Dimensions

NTF-silencer's outer shell is made of galvanized sheet steel. Connections are with rubber gaskets. Sound absorption duct element with good attenuation characteristics is made from mineral wool (Cleantec coated). Silencers with Ø 400-600 includes also separate absorption element.

Standard lengths 300, 600 and 1000 mm.

### Sound Attenuation

Sound attenuation is specified to ISO 7235, i.e. static integral attenuation for duct products.



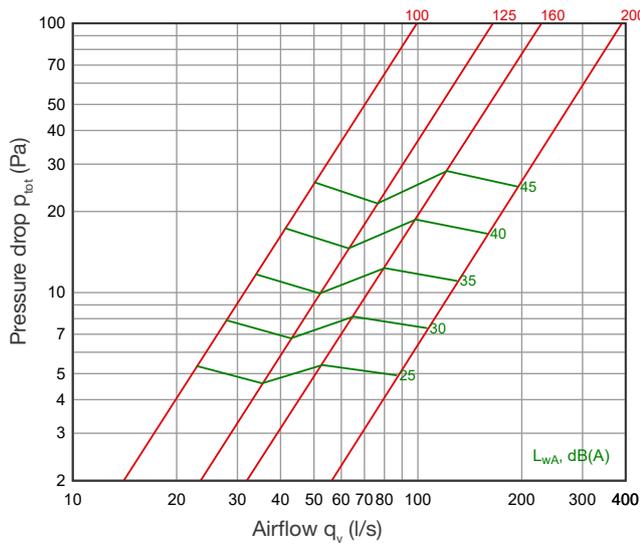
NTF (absorption material mineral wool)

Nominal size Ø d (mm)	L (mm)	A (mm)	B (mm)	Safety distance EI60 (mm)	Sound attenuation (dB)								Weight (kg)
					Mean frequency of octave band (Hz)								
					63	125	250	500	1000	2000	4000	8000	
100	300	210	155	-	10	9	15	21	19	18	17	16	3,0
*100	600	210	155	510	12	15	24	44	49	50	48	37	4,7
*100	1000	210	155	620	15	28	32	53	55	57	55	49	6,9
125	300	225	180	-	6	6	10	18	16	13	14	11	3,4
*125	600	225	180	530	10	9	21	34	30	25	20	15	5,3
*125	1000	225	180	650	12	14	26	43	53	53	53	41	7,8
160	300	280	215	-	7	5	11	13	14	15	17	12	4,4
*160	600	280	215	600	11	8	20	25	29	26	24	19	6,8
*160	1000	280	215	740	18	12	31	44	43	38	29	21	10,0
200	300	295	255	-	3	5	9	11	10	11	9	8	5,0
*200	600	295	255	620	7	7	16	22	25	29	26	17	7,7
*200	1000	295	255	760	15	9	26	39	46	48	42	27	11,3
*250	600	325	305	650	5	5	14	18	22	25	17	11	9,1
*250	1000	325	305	810	11	9	22	33	42	42	32	17	13,3
*315	600	365	370	690	4	5	10	14	18	20	16	11	10,8
*315	1000	365	370	870	11	7	17	25	30	34	23	14	15,8
*400	600	510	455	820	6	8	10	14	23	30	24	16	17,5
*400	1000	510	455	1050	7	14	17	24	38	44	41	27	25,5
500	600	560	555	-	1	9	11	20	26	26	21	16	21,6
500	1000	560	555	-	4	12	20	30	40	40	34	25	31,6
630	600	720	685	-	8	9	13	19	23	25	19	16	30,4
630	1000	720	685	-	13	15	21	33	39	38	32	25	45,1

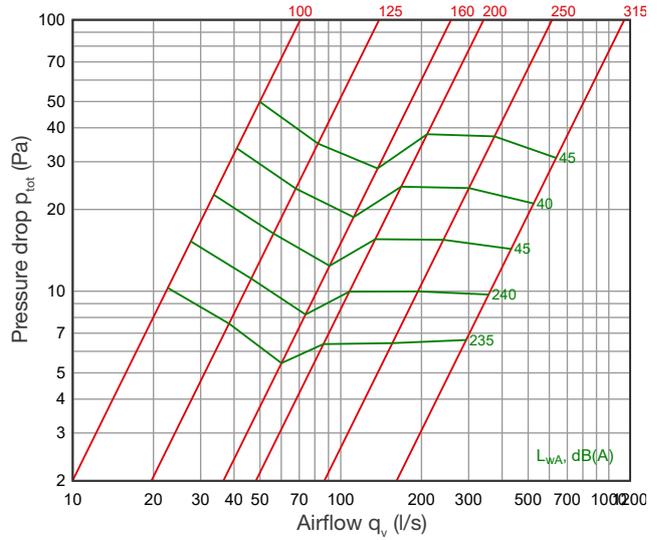
\*Marked products achieve fire-resistance class EI60, provided that the specified safety distances are maintained. This ensures protection for evacuating persons by limiting the heat flux to 2,5 kW/m<sup>2</sup>.

Pressure drop for dimensions 100-315

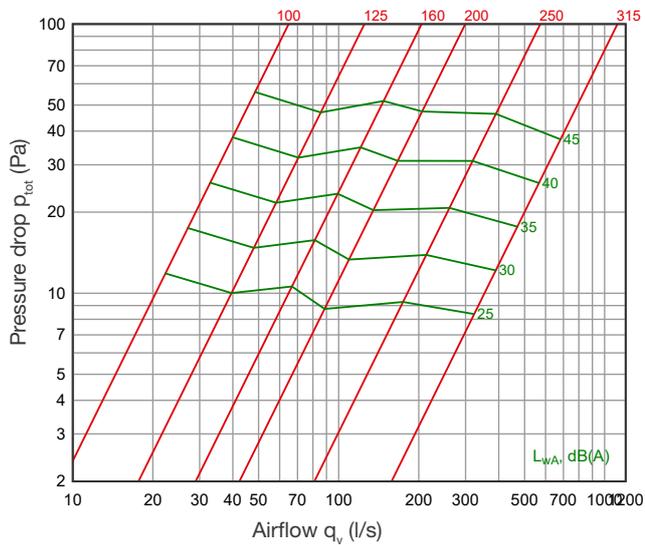
NTF 300



NTF 600

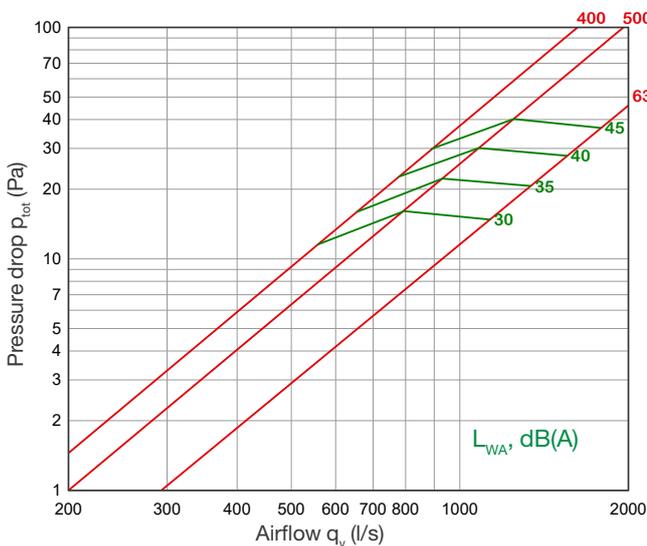


NTF 1000

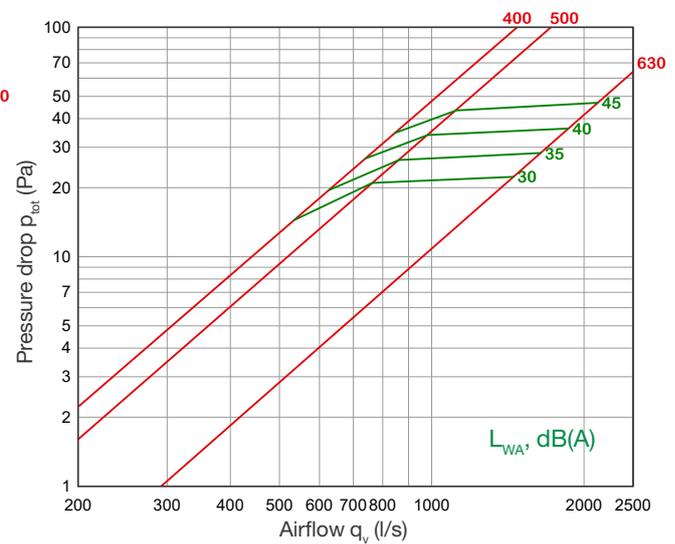


Pressure drop for dimensions 400-600

NTF L=600



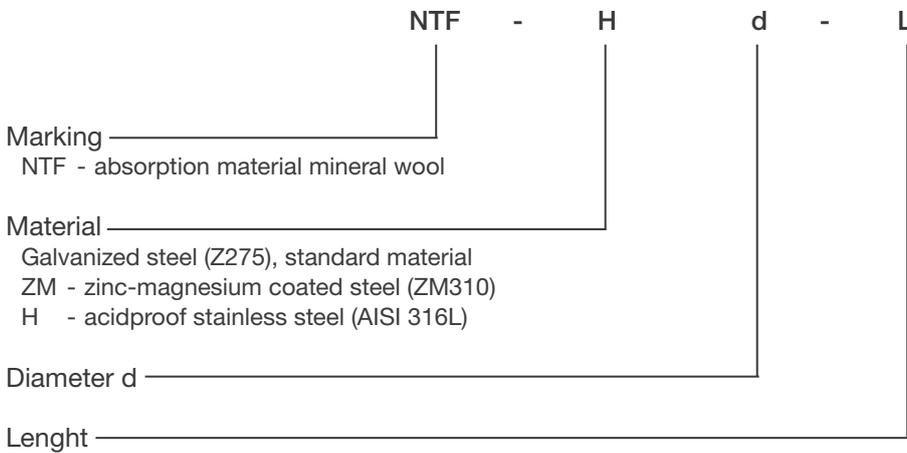
NTF L=1000



$$L_{w,okt} = L_{WA} + K_{okt}$$

Product	Sound level correction factor $K_{okt}$ (dB)							
	63	125	250	500	1k	2k	4k	8k
NTF100-300	1	4	5	-1	-11	-21	-24	-23
NTF100-600	3	6	5	-1	-12	-19	-24	-24
NTF100-1000	2	3	5	-1	-12	-21	-24	-22
NTF125-300	6	7	6	-2	-13	-23	-26	-22
NTF125-600	4	7	5	-1	-12	-22	-25	-21
NTF125-1000	3	6	5	-1	-11	-20	-22	-21
NTF160-300	8	6	5	-1	-12	-20	-20	-18
NTF160-600	7	8	6	-3	-13	-19	-18	-14
NTF160-1000	8	8	5	-2	-13	-19	-16	-13
NTF 200-300	9	6	5	-2	-12	-17	-19	-17
NTF 200-600	9	7	5	-2	-11	-16	-16	-16
NTF 200-1000	8	7	5	-2	-12	-16	-16	-15
NTF 250-600	9	6	4	-2	-8	-13	-16	-17
NTF 250-1000	7	6	3	-2	-8	-13	-15	-15
NTF 315-600	12	7	3	-2	-8	-14	-16	-15
NTF 315-1000	11	7	3	-3	-8	-13	-15	-12
NTF 400-600	17	7	-1	-4	-5	-9	-15	-21
NTF 400-1000	14	5	0	-4	-5	-8	-15	-22
NTF 500-600	7	5	0	-3	-5	-8	-14	-21
NTF 500-1000	8	5	1	-3	-5	-9	-15	-22
NTF 630-600	10	4	-3	-4	-4	-7	-15	-20
NTF 630-1000	8	3	-4	-4	-5	-6	-14	-22

**Product Marking**



Example: NTF 160-600  
 NTF-H 160-600