



ACOUSTIC DATA CATALOGUE



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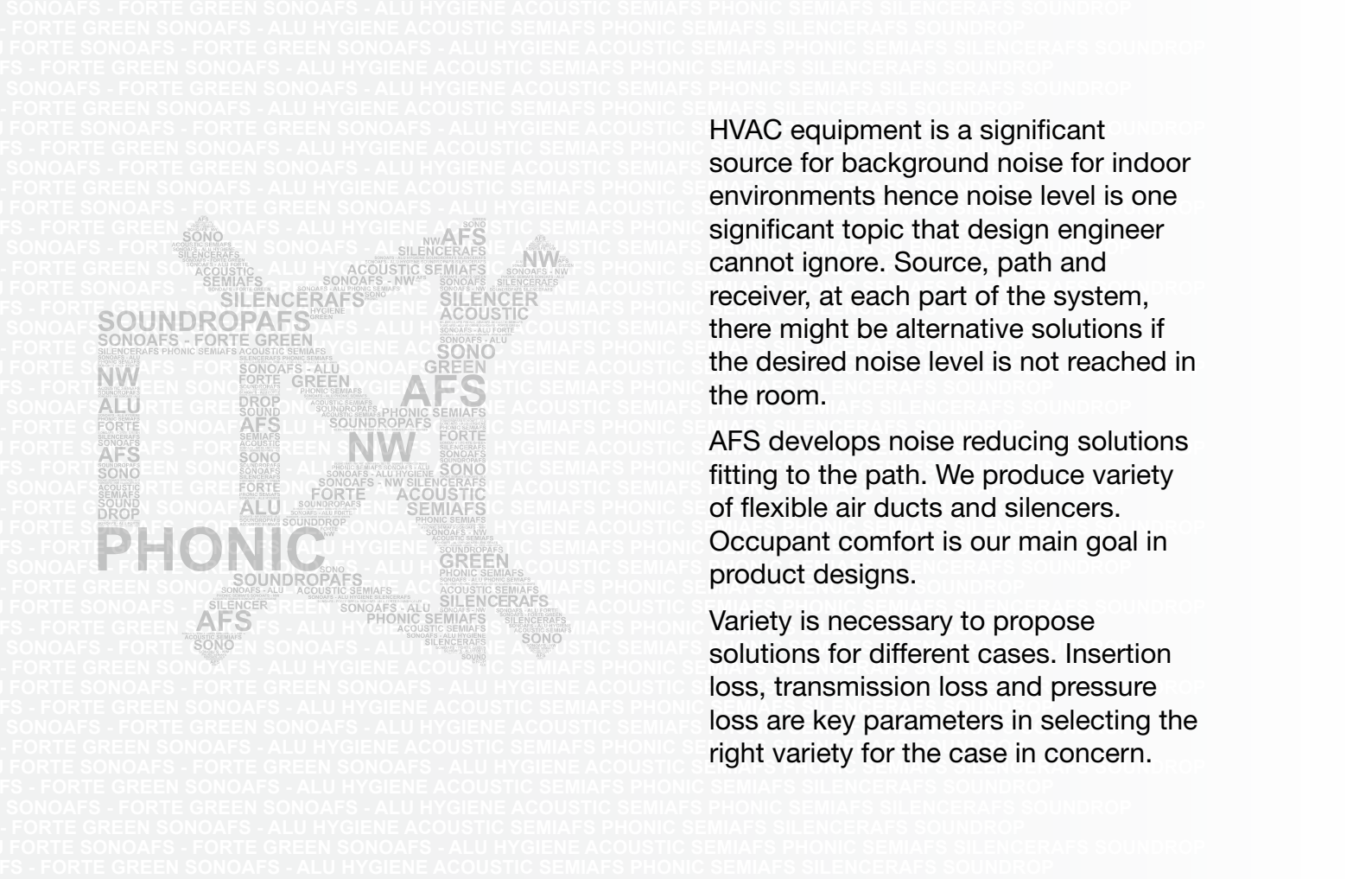
AFS produces and markets a wide range of flexible and semi-flexible air duct silencers. Since 1991, many silencers have been improved and introduced by AFS to the HVAC market. These silencers have different properties and they are produced with different type of materials. Inner ducts, insulation materials and jacket are combined in various types. And also; thickness, lamination and perforation of materials change with different products. With different types of flexible and semi-flexible air duct silencers, multi-purpose sound absorption can be achieved.

OAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHO
RTE SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIA
FS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
ALU FORTE SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTI
OAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHO
RTE SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIA
FS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
ALU FORTE SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTI

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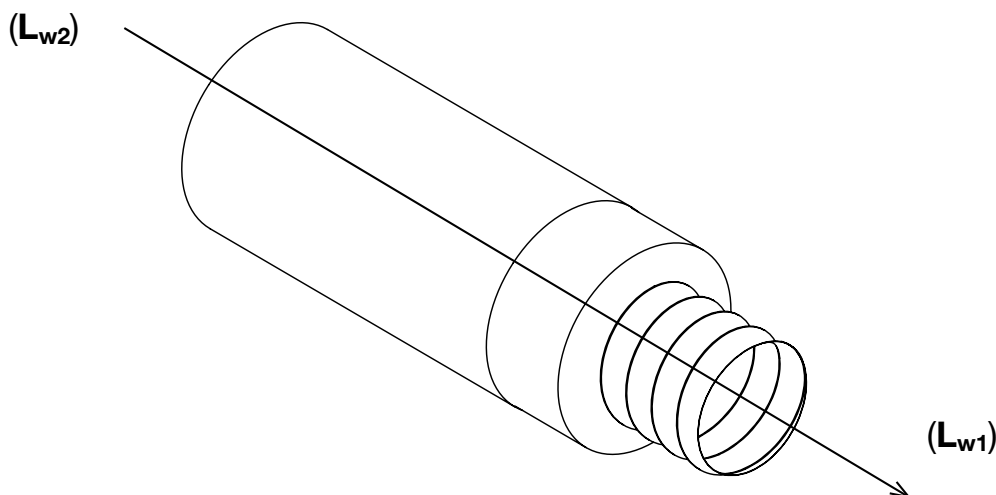
HVAC equipment is a significant source for background noise for indoor environments hence noise level is one significant topic that design engineer cannot ignore. Source, path and receiver, at each part of the system, there might be alternative solutions if the desired noise level is not reached in the room.

AFS develops noise reducing solutions fitting to the path. We produce variety of flexible air ducts and silencers. Occupant comfort is our main goal in product designs.

Variety is necessary to propose solutions for different cases. Insertion loss, transmission loss and pressure loss are key parameters in selecting the right variety for the case in concern.

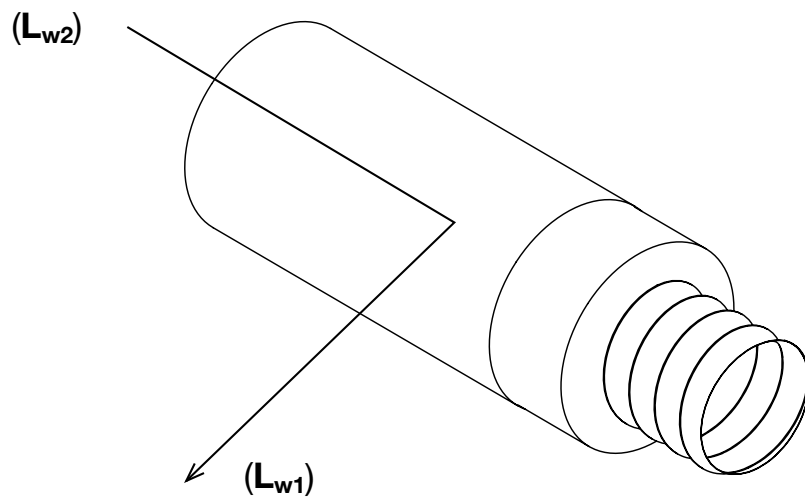
Insertion Loss

Insertion loss is the difference between the measured sound power level at the outlet (L_{w1}) and at the inlet (L_{w2}) of the acoustically insulated flexible air duct / silencer.



Transmission Loss

Transmission loss is the difference between the measured sound power level radiating from the wall of the acoustically insulated flexible air duct / silencer (L_{w1}) and at the inlet (L_{w2})



Measurements

The acoustic measurements are performed according to norm EN ISO 7235 either in the Peutz Lab or AFS LAB.

EN ISO 7235:2003 “Acoustics – Laboratory measurement procedures for ducted silencers and air terminal units – Insertion loss, flow noise and total pressure loss”



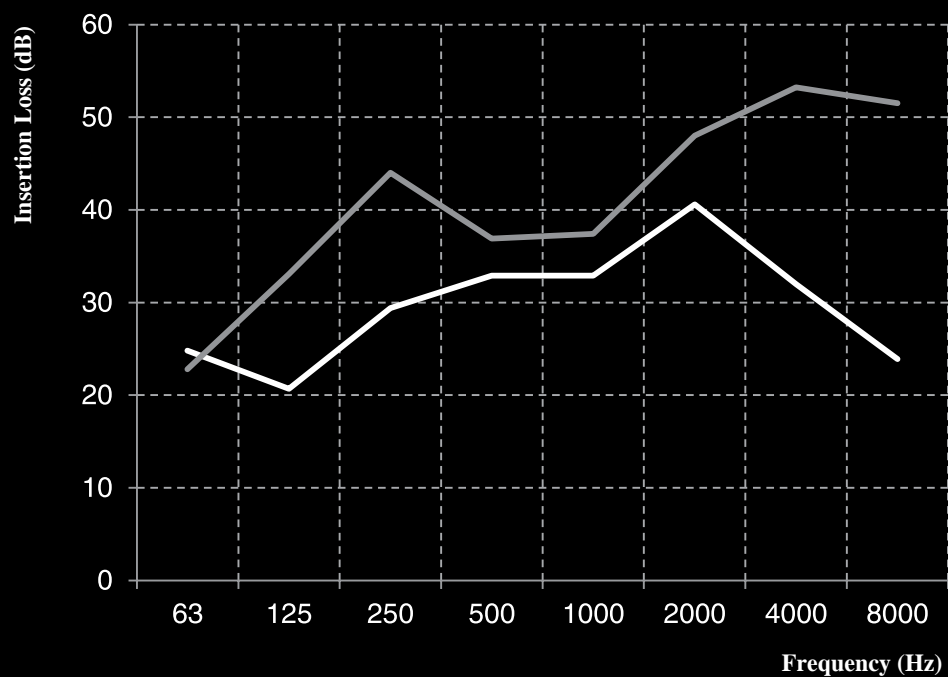
SONOAFS-ALU

- SONOAFS-ALU.70
- SONOAFS-ALU.70B
- SONOAFS-ALU.F
- SONOAFS-ALU.FB
- SONOAFS-ALU.70 ECOSOFT
- SONOAFS-ALU.70B ECOSOFT
- SONOAFS-ALU.F ECOSOFT
- SONOAFS-ALU.FB ECOSOFT

PHONIC SEMIAFS SILENCERAFS
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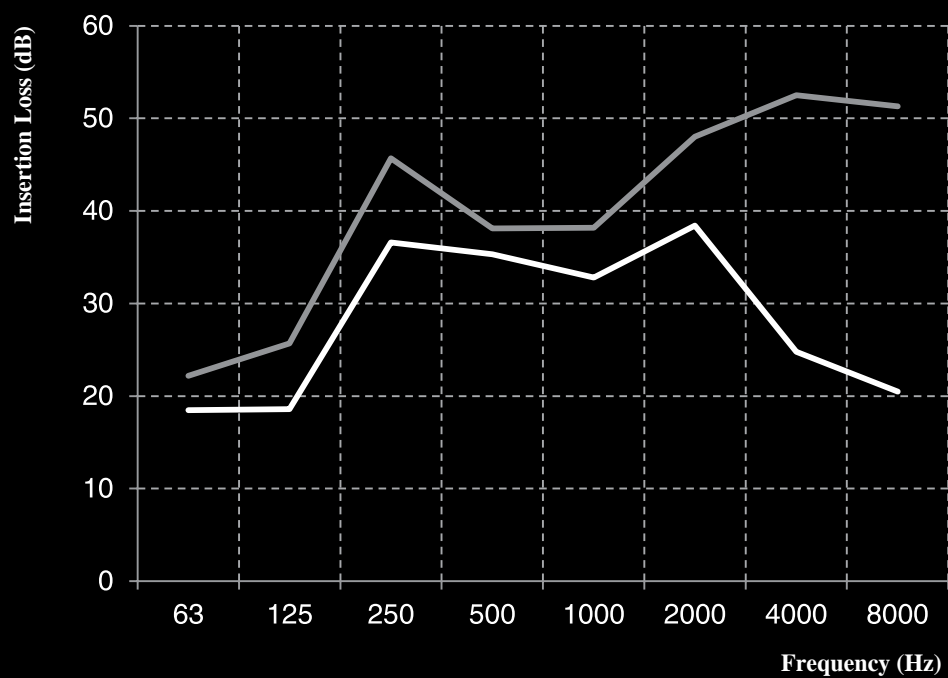


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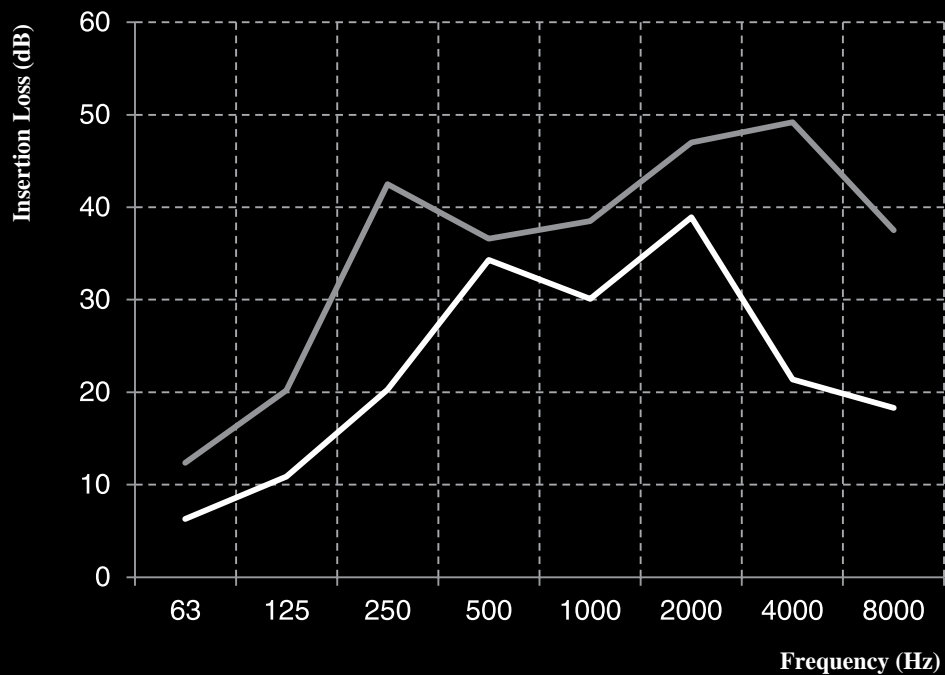


f	63	125	250	500	1000	2000	4000	8000
1m	24,8	20,7	29,4	32,9	32,9	40,6	32	23,9
3m	22,8	33,1	44	36,9	37,4	48	53,2	51,5

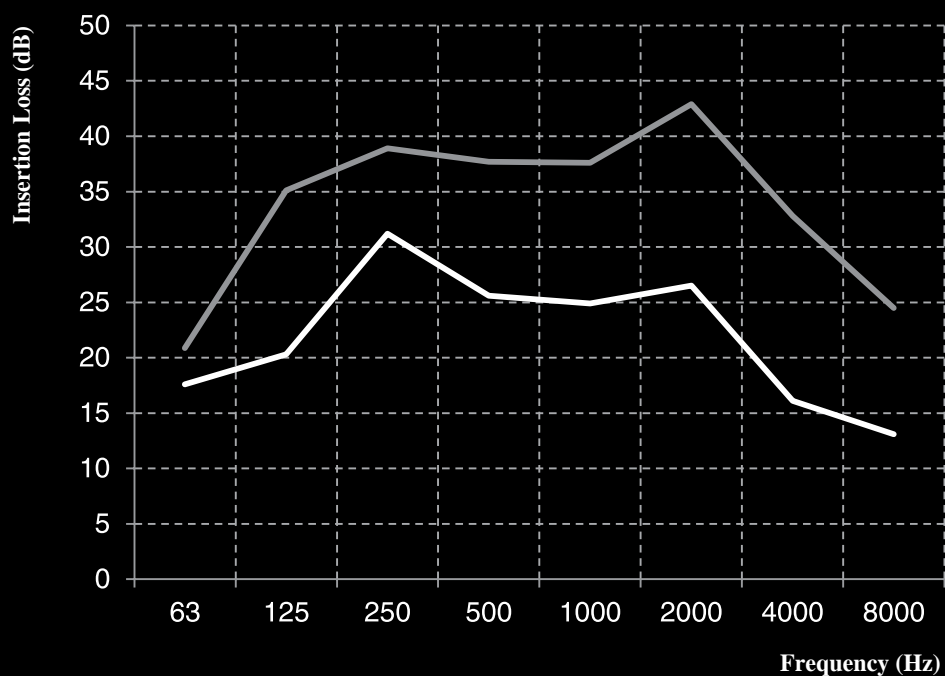
Ø102mm



f	63	125	250	500	1000	2000	4000	8000
1m	18,5	18,6	36,6	35,3	32,8	38,4	24,8	20,5
3m	22,2	25,7	45,7	38,1	38,2	48	52,5	51,3

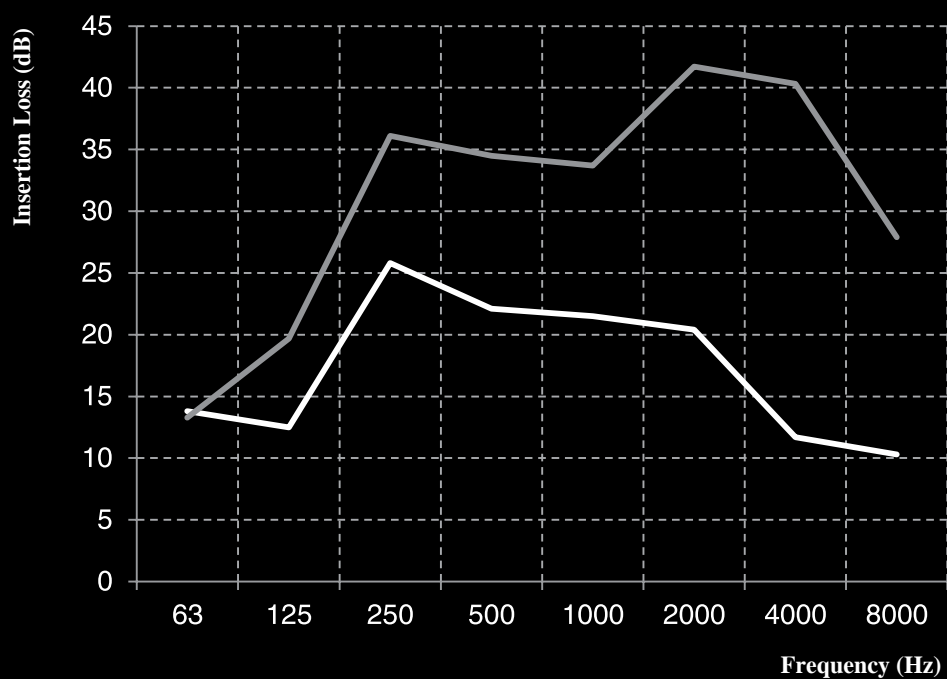


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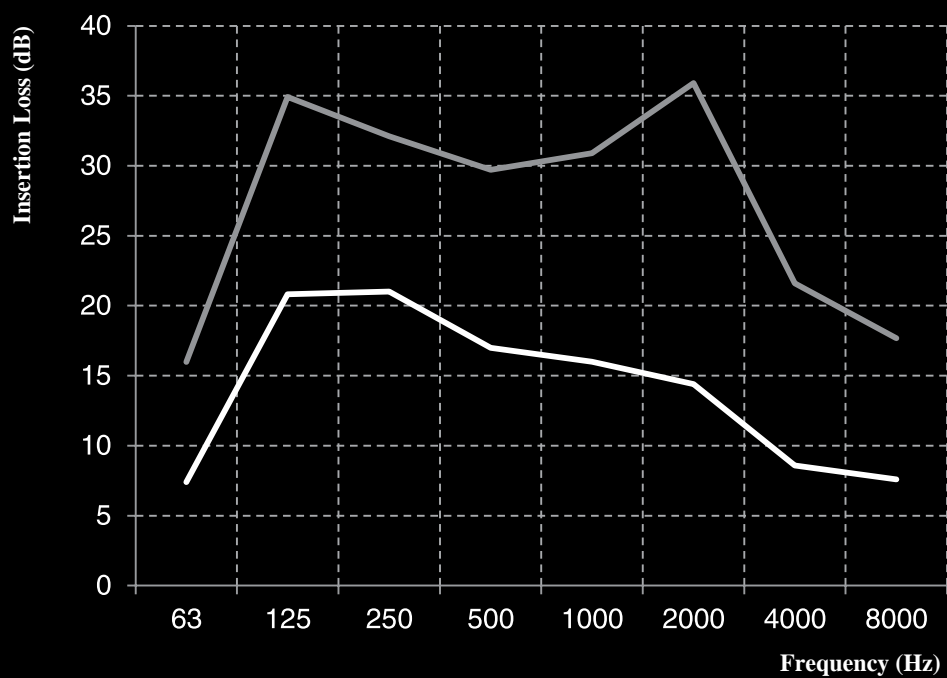
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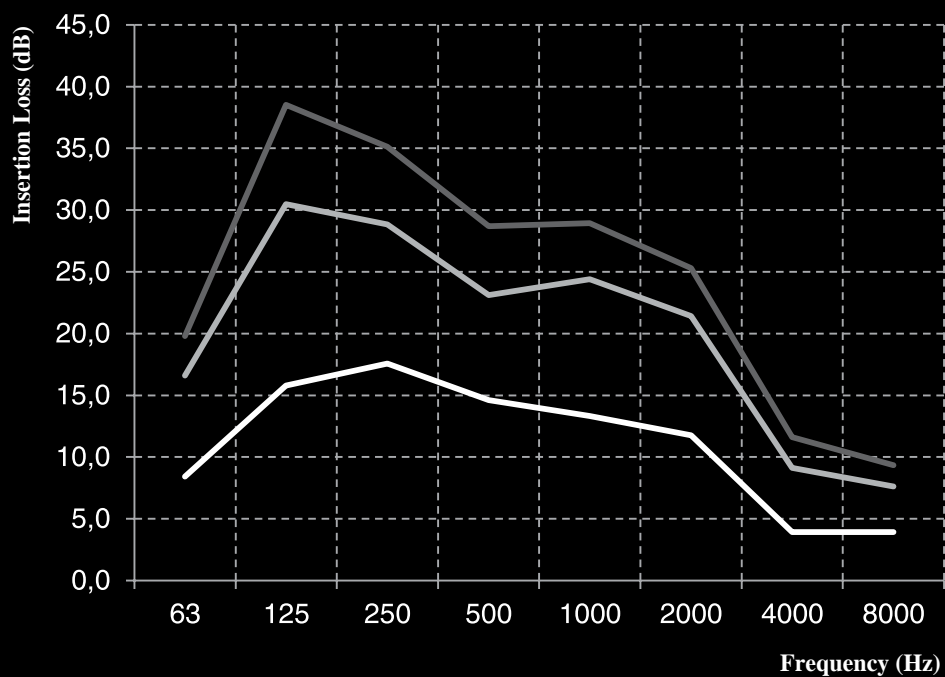


f	63	125	250	500	1000	2000	4000	8000
1m	13,8	12,5	25,8	22,1	21,5	20,4	11,7	10,3
3m	13,3	19,7	36,1	34,5	33,7	41,7	40,3	27,9

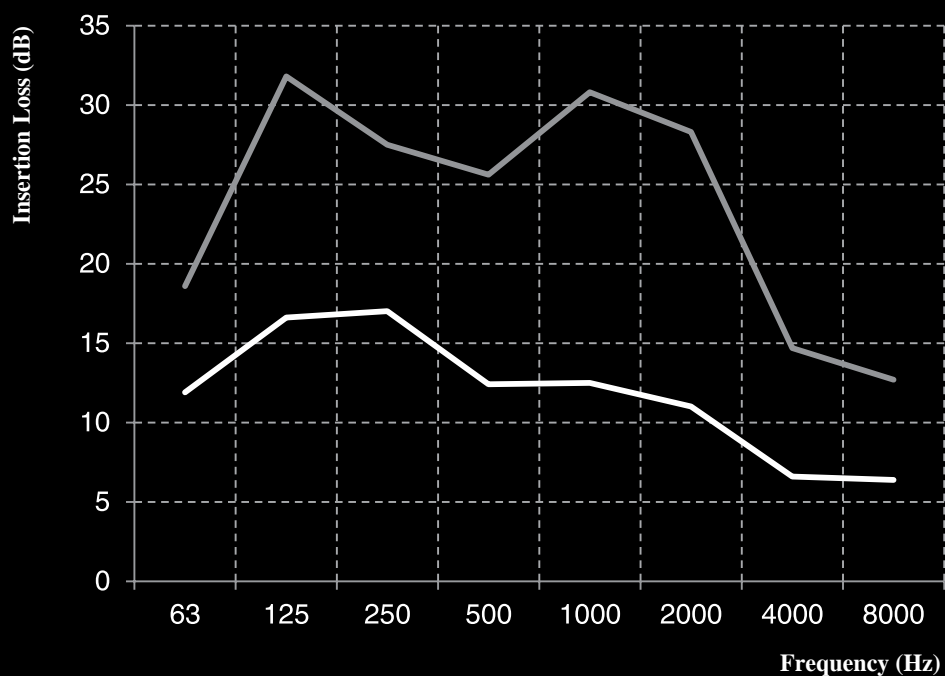
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f	63	125	250	500	1000	2000	4000	8000
1m	7,4	20,8	21	17	16	14,4	8,6	7,6
3m	16	34,9	32,1	29,7	30,9	35,9	21,6	17,7



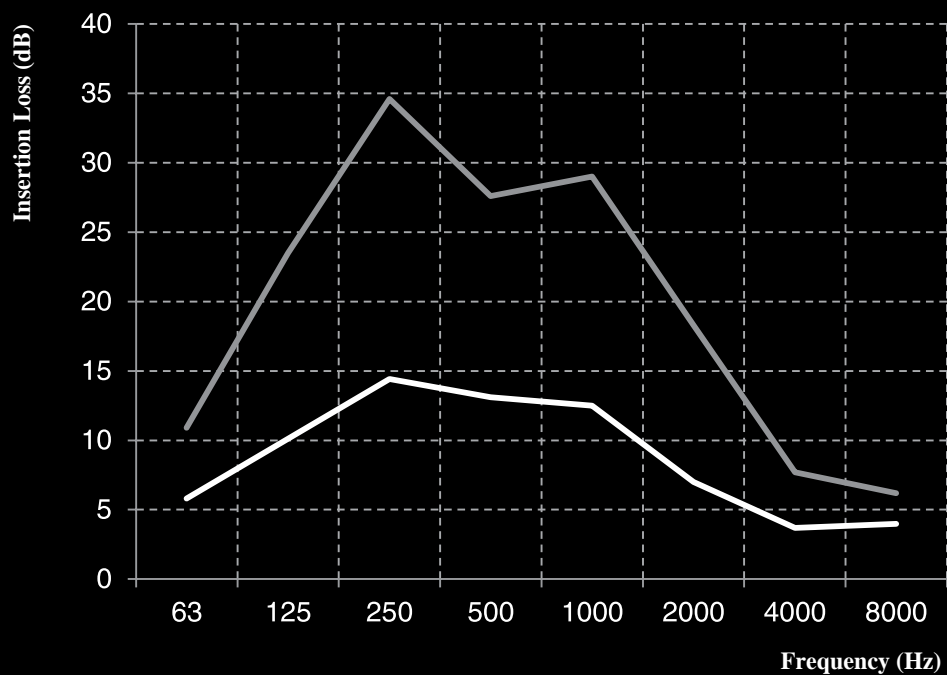
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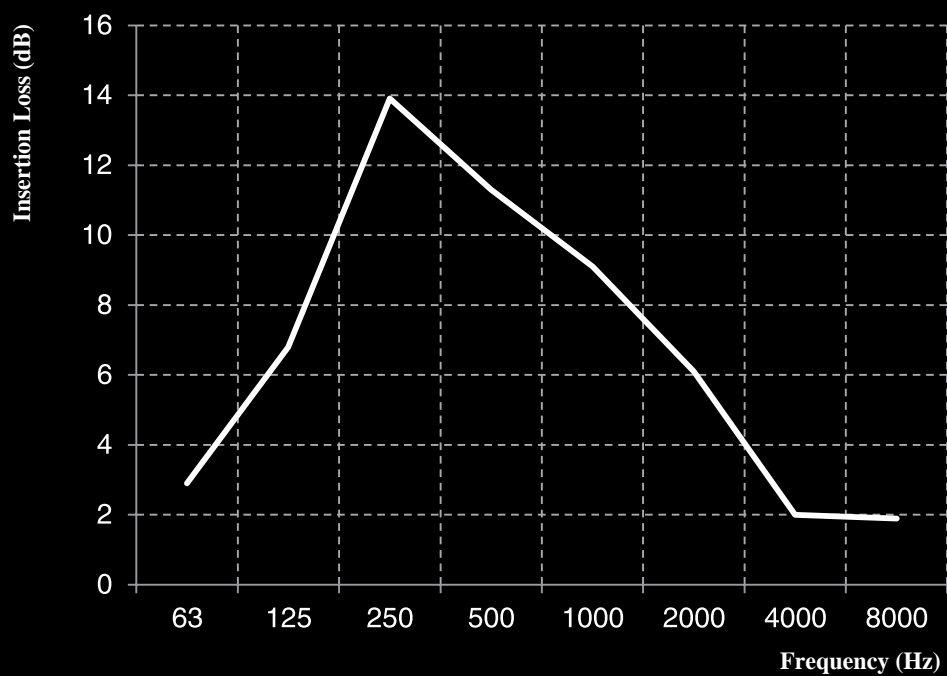
f	63	125	250	500	1000	2000	4000	8000
1m	11,9	16,6	17	12,4	12,5	11	6,6	6,4
3m	18,6	31,8	27,5	25,6	30,8	28,3	14,7	12,7

Ø356mm

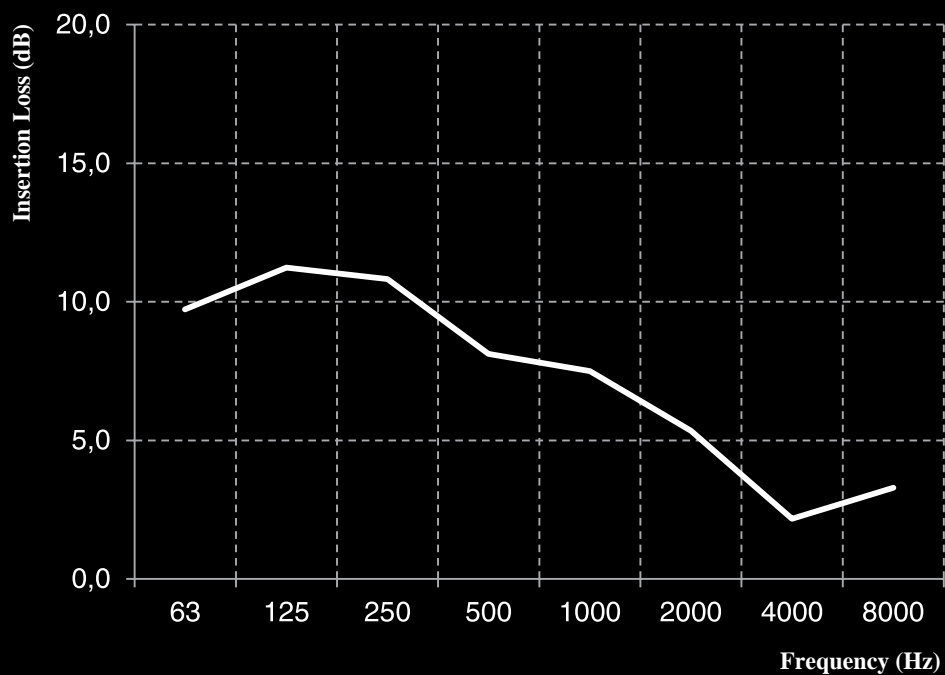


f	63	125	250	500	1000	2000	4000	8000
1m	5,8	10,1	14,4	13,1	12,5	7,0	3,7	4,0
3m	10,9	23,5	34,6	27,6	29,0	18,3	7,7	6,2

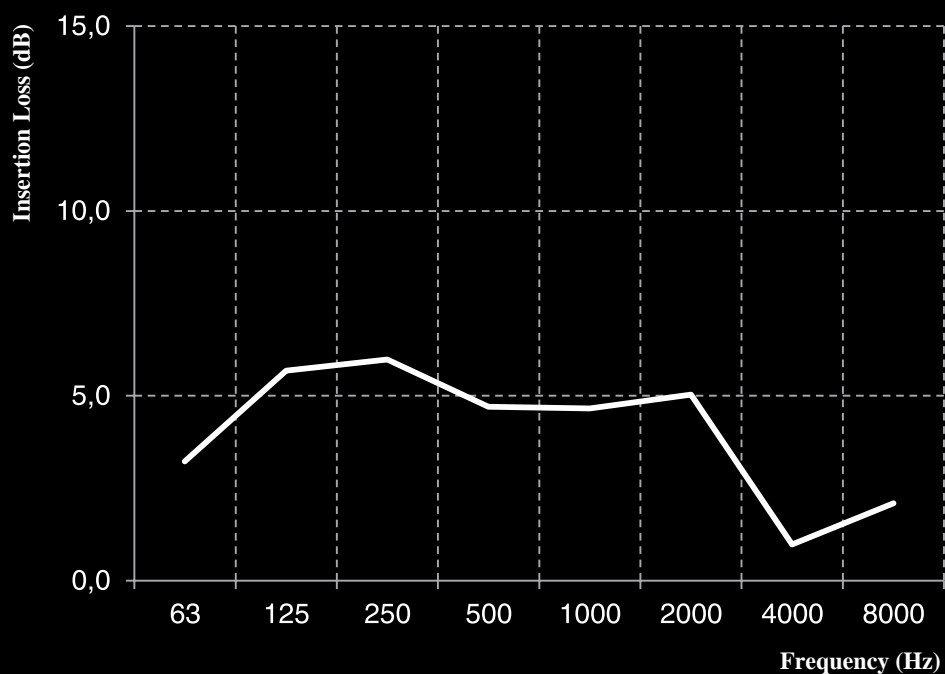
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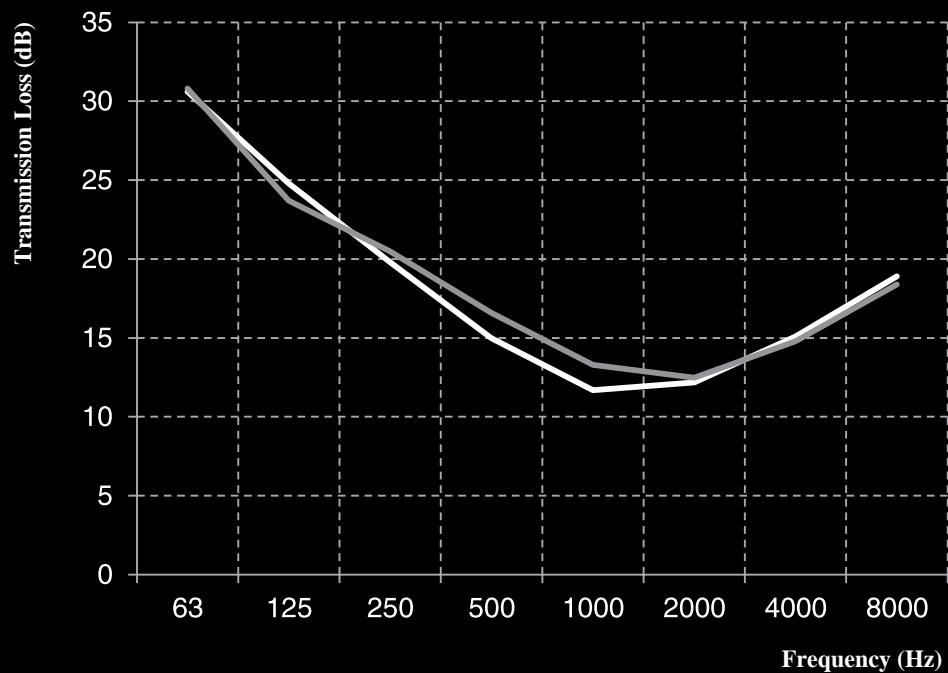


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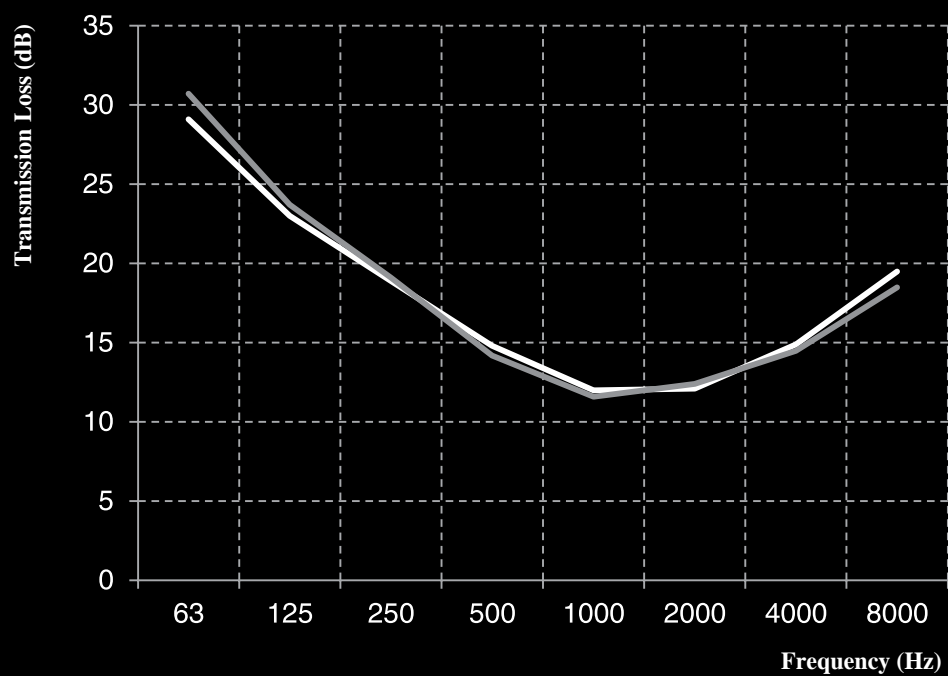
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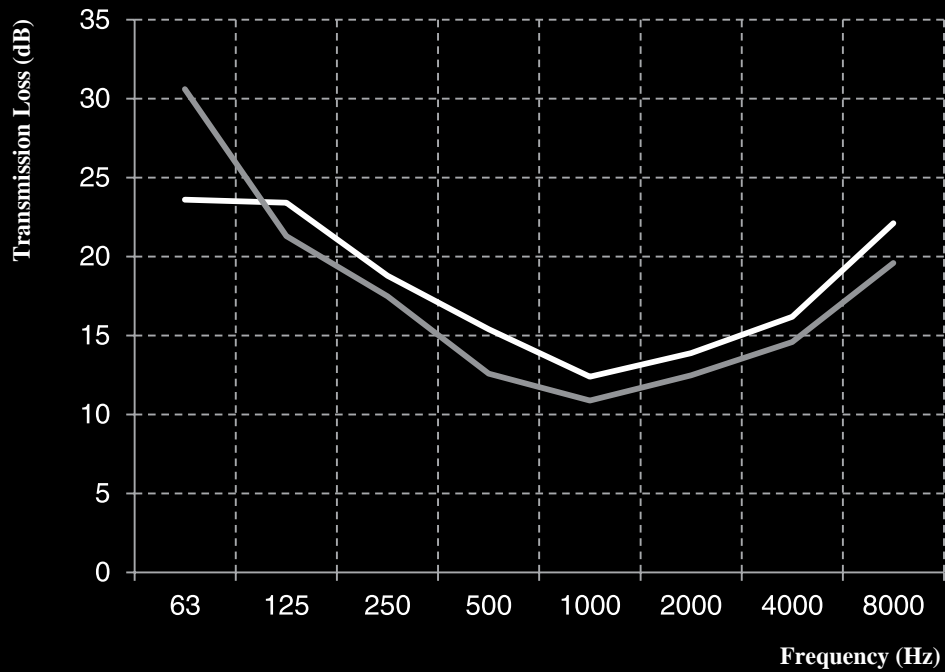


f	63	125	250	500	1000	2000	4000	8000
1m	30,6	24,8	19,8	15	11,7	12,2	15,1	18,9
3m	30,8	23,7	20,5	16,6	13,3	12,5	14,8	18,4

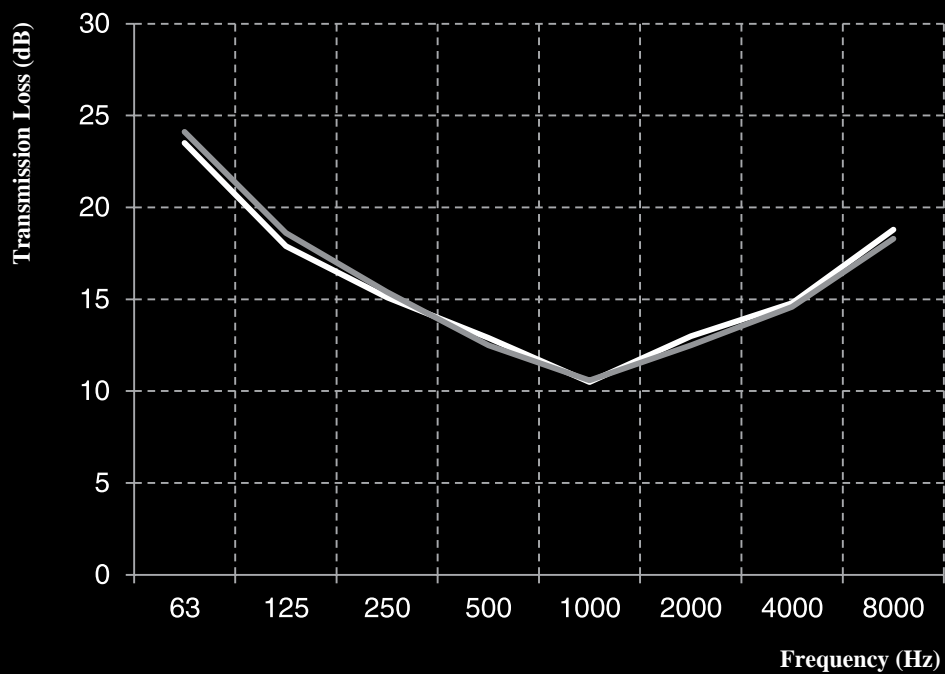
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f	63	125	250	500	1000	2000	4000	8000
1m	29,1	23	18,9	14,8	12	12,1	14,9	19,5
3m	30,7	23,7	19,1	14,2	11,6	12,4	14,5	18,5

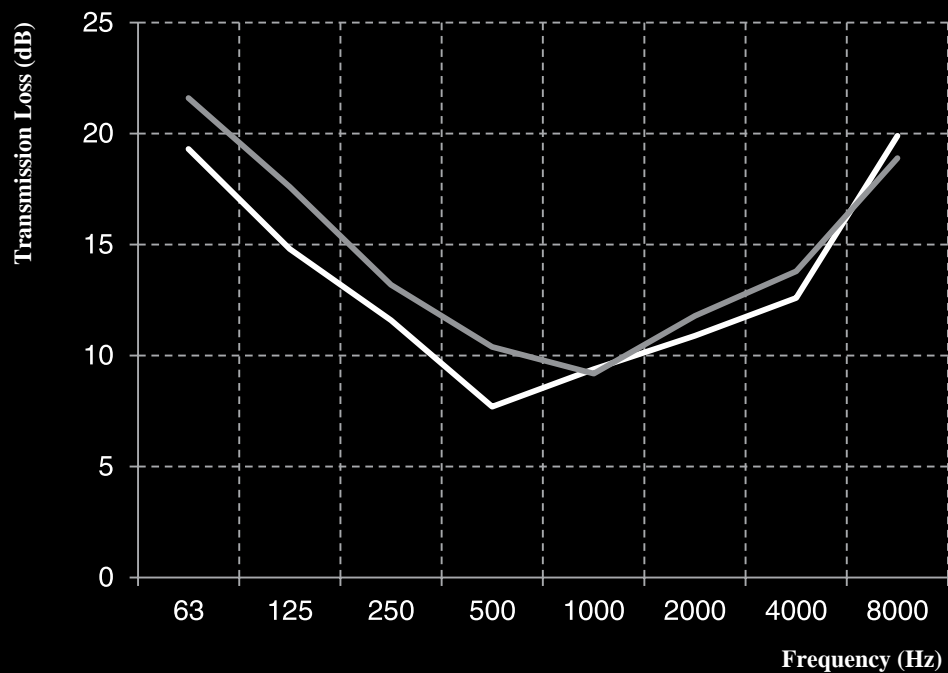


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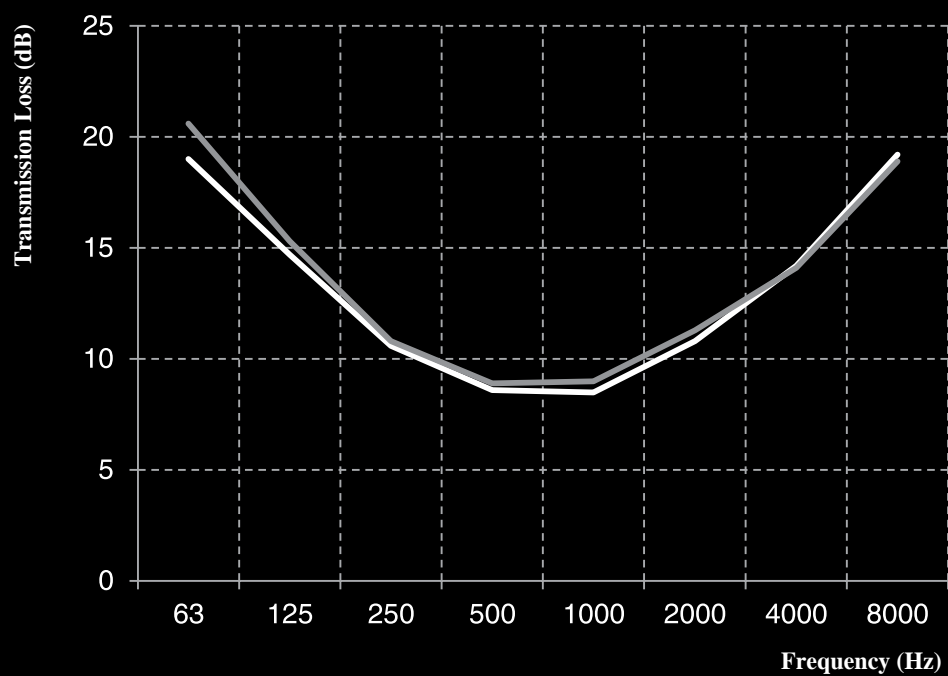
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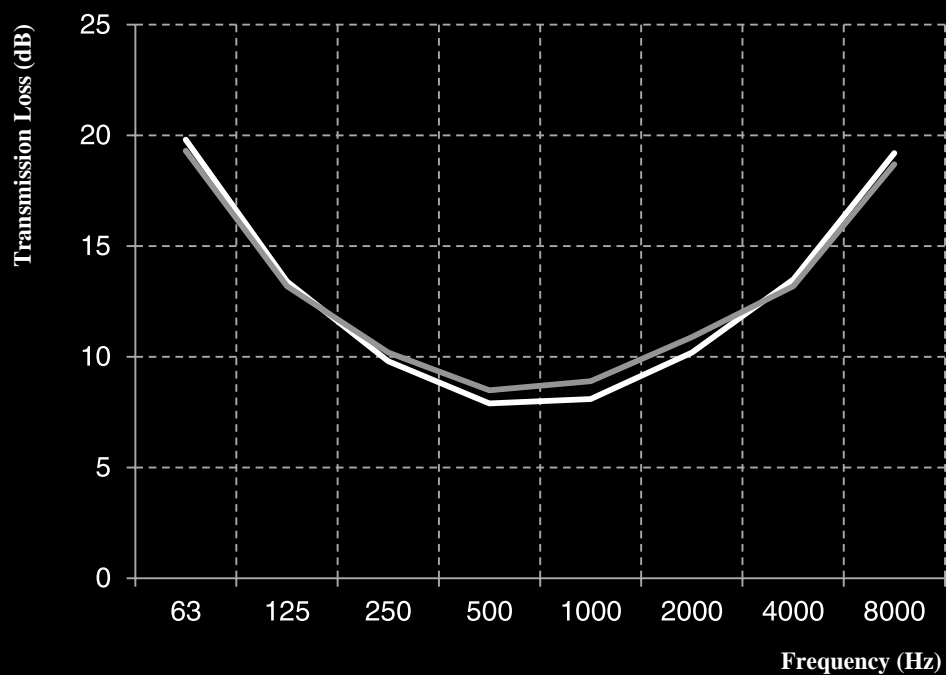
f	63	125	250	500	1000	2000	4000	8000
1m	19,3	14,8	11,6	7,7	9,4	10,9	12,6	19,9
3m	21,6	17,6	13,2	10,4	9,2	11,8	13,8	18,9

Ø254mm



f	63	125	250	500	1000	2000	4000	8000
1m	19,0	14,7	10,6	8,6	8,5	10,8	14,2	19,2
3m	20,6	15,3	10,8	8,9	9,0	11,3	14,1	18,9

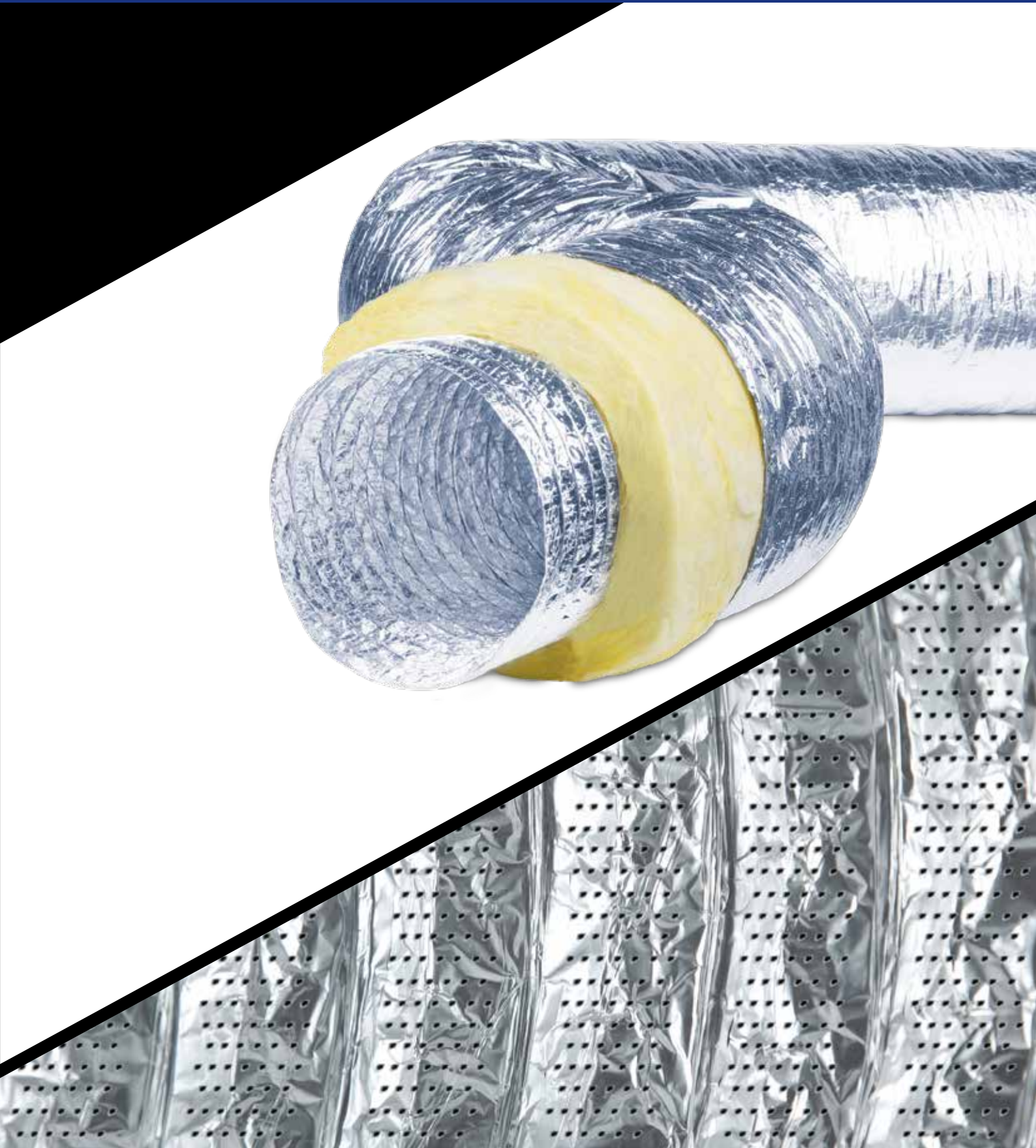
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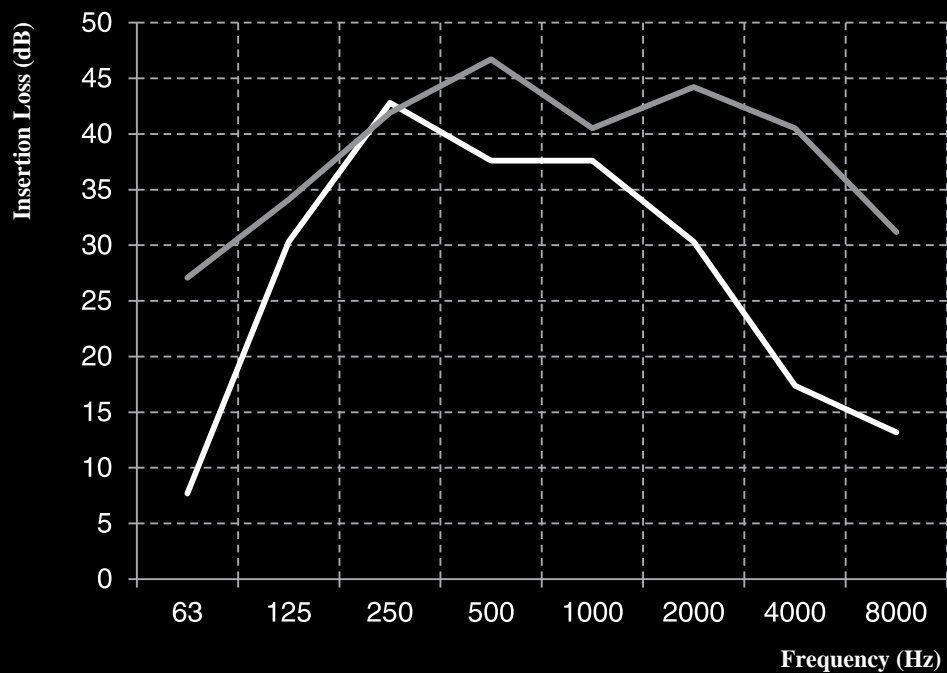
f	63	125	250	500	1000	2000	4000	8000
1m	19,8	13,4	9,8	7,9	8,1	10,2	13,5	19,2
3m	19,3	13,2	10,2	8,5	8,9	10,9	13,2	18,7

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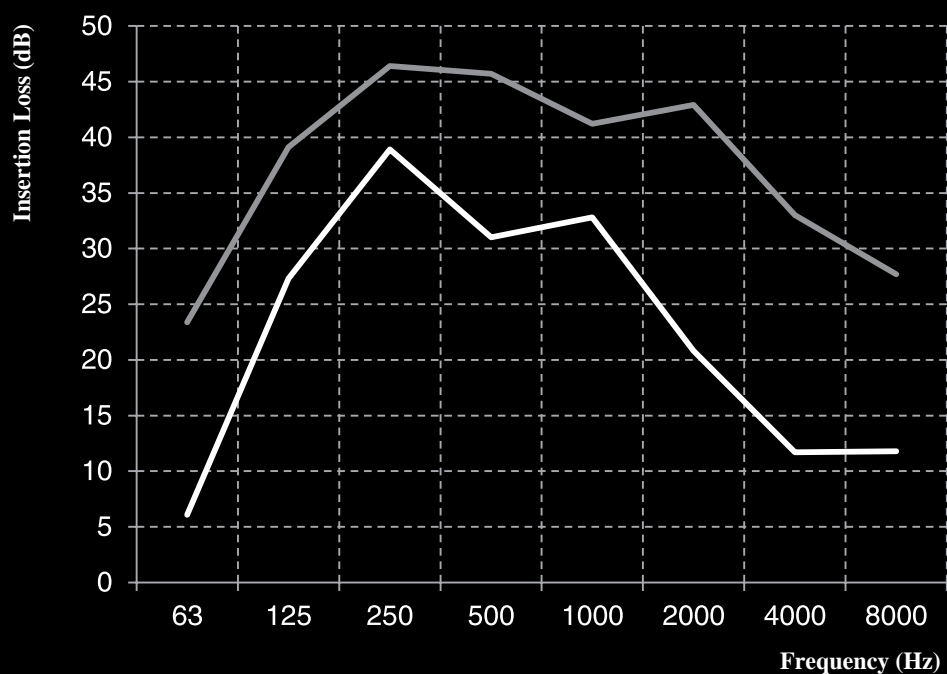


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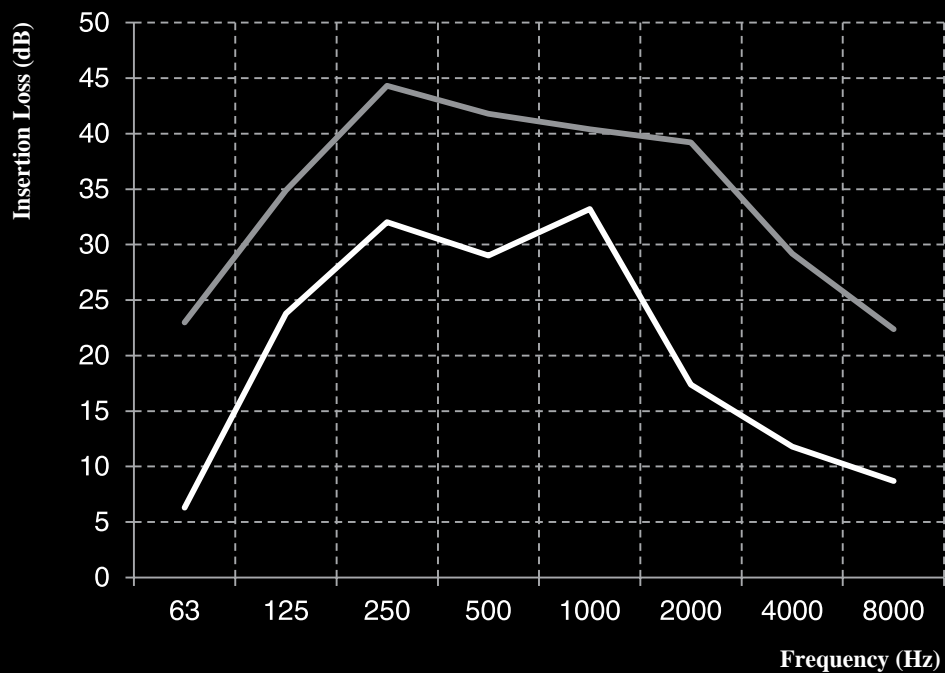


f	63	125	250	500	1000	2000	4000	8000
1m	7,7	30,3	42,8	37,6	37,6	30,3	17,4	13,2
3m	27,1	34,1	41,9	46,7	40,5	44,2	40,5	31,2

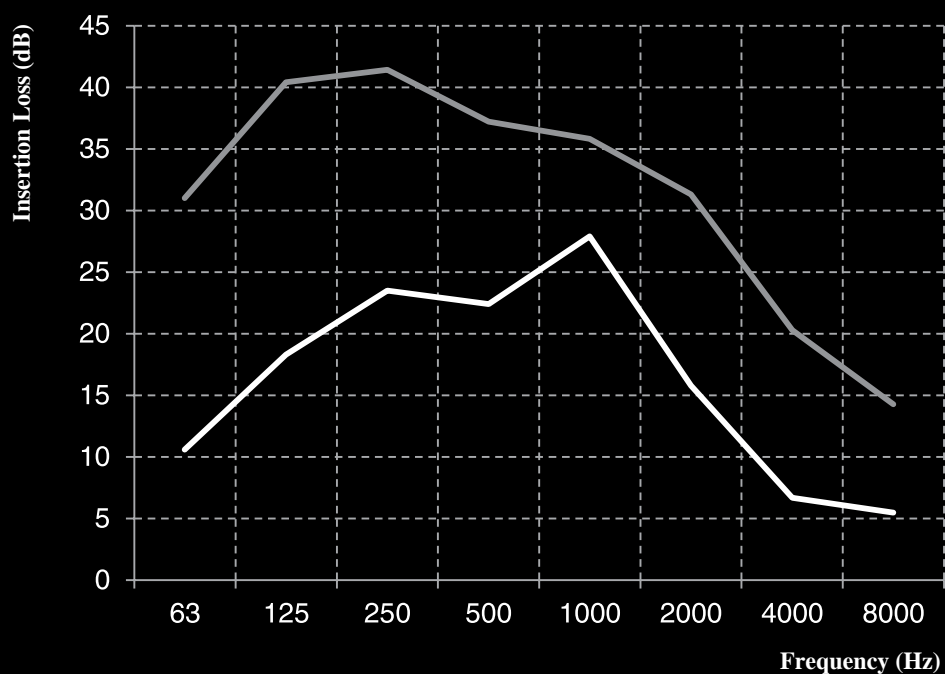
Ø127mm



f	63	125	250	500	1000	2000	4000	8000
1m	6,1	27,3	38,9	31	32,8	20,8	11,7	11,8
3m	23,4	39,1	46,4	45,7	41,2	42,9	33	27,7

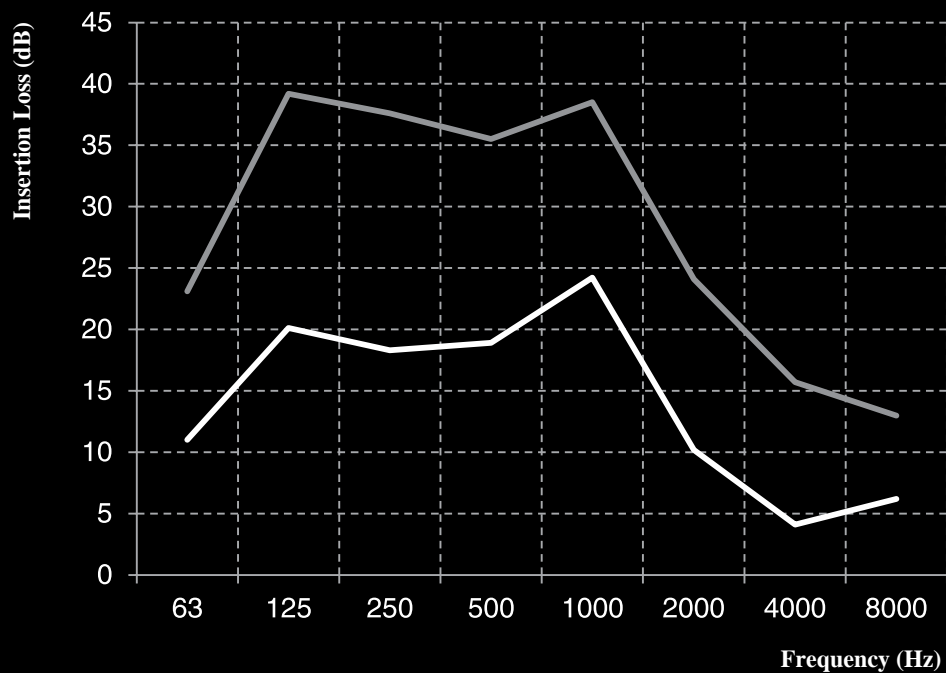


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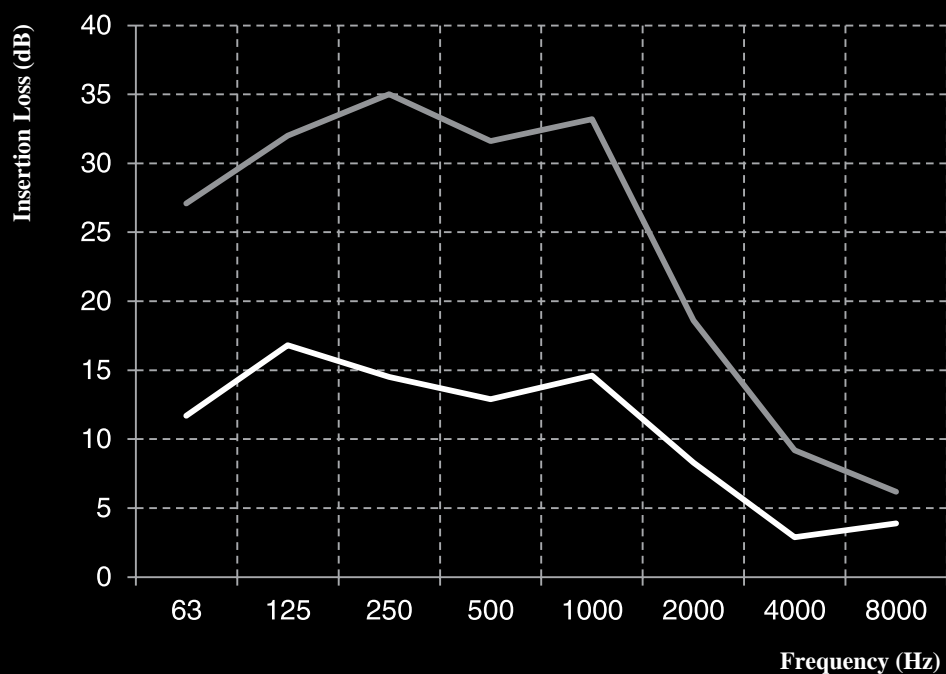
Ø203mm

Ø254mm

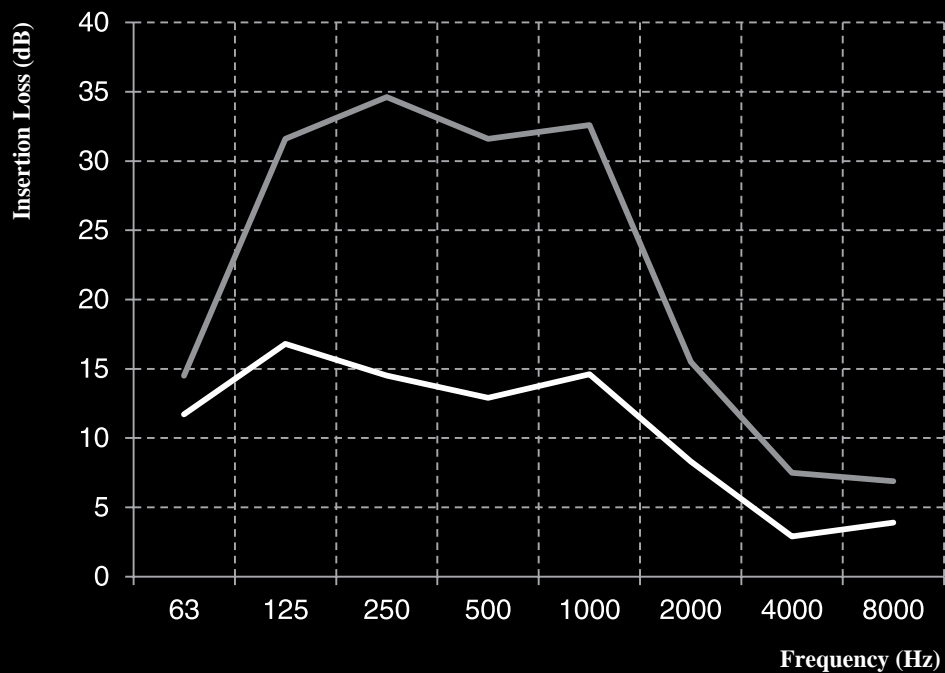


f	63	125	250	500	1000	2000	4000	8000
1m	11	20,1	18,3	18,9	24,2	10,2	4,1	6,2
3m	23,1	39,2	37,6	35,5	38,5	24,1	15,7	13

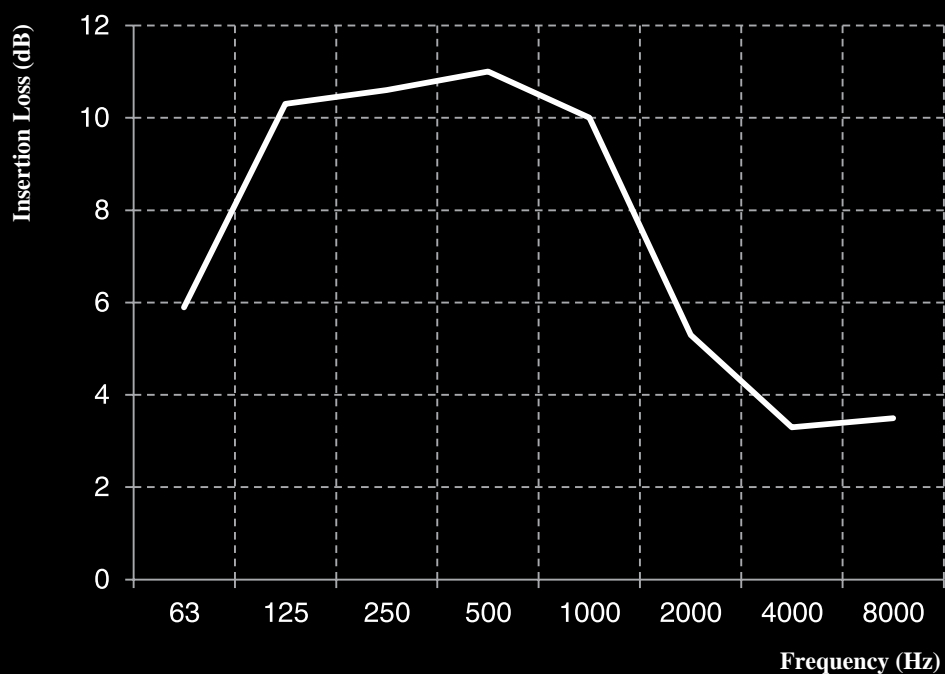
Ø305mm



f	63	125	250	500	1000	2000	4000	8000
1m	11,7	16,8	14,5	12,9	14,6	8,3	2,9	3,9
3m	27,1	32	35	31,6	33,2	18,6	9,2	6,2

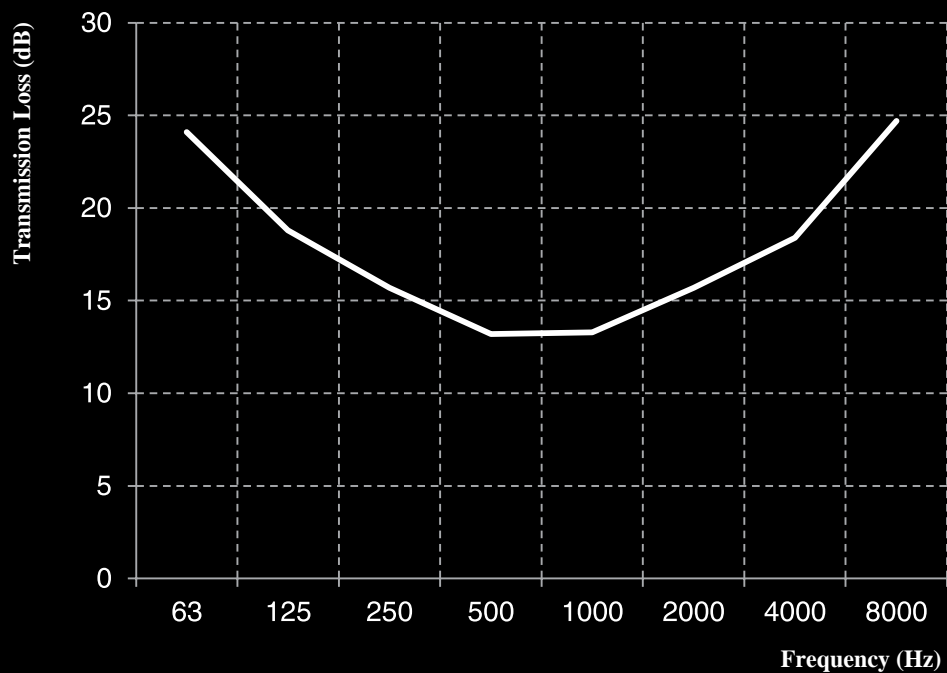


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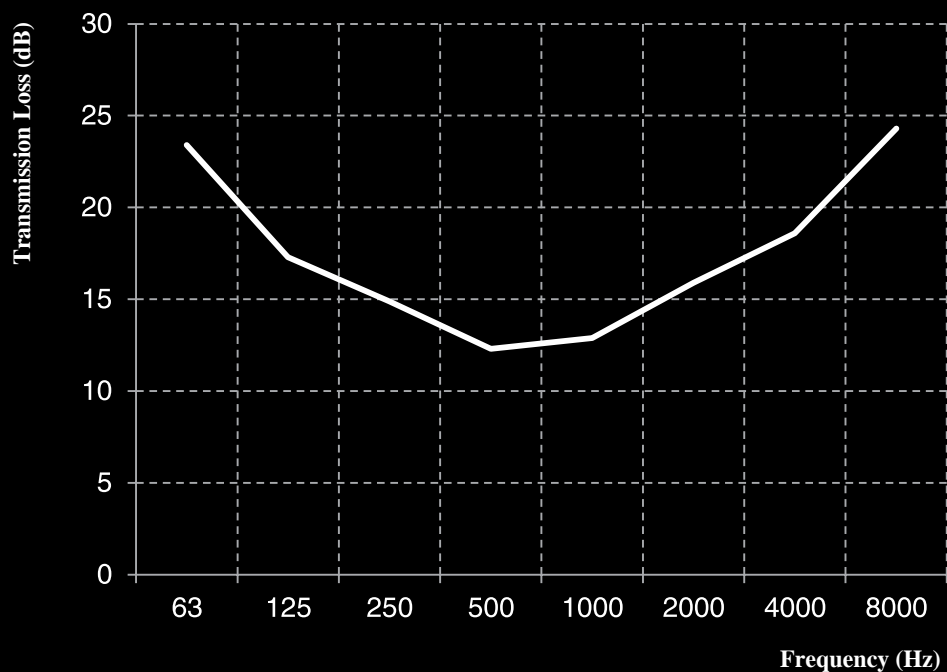
Ø406mm

Ø127mm



f	63	125	250	500	1000	2000	4000	8000
1m	24,1	18,8	15,7	13,2	13,3	15,7	18,4	24,7

Ø160mm



f	63	125	250	500	1000	2000	4000	8000
1m	23,4	17,3	14,9	12,3	12,9	15,9	18,6	24,3

SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
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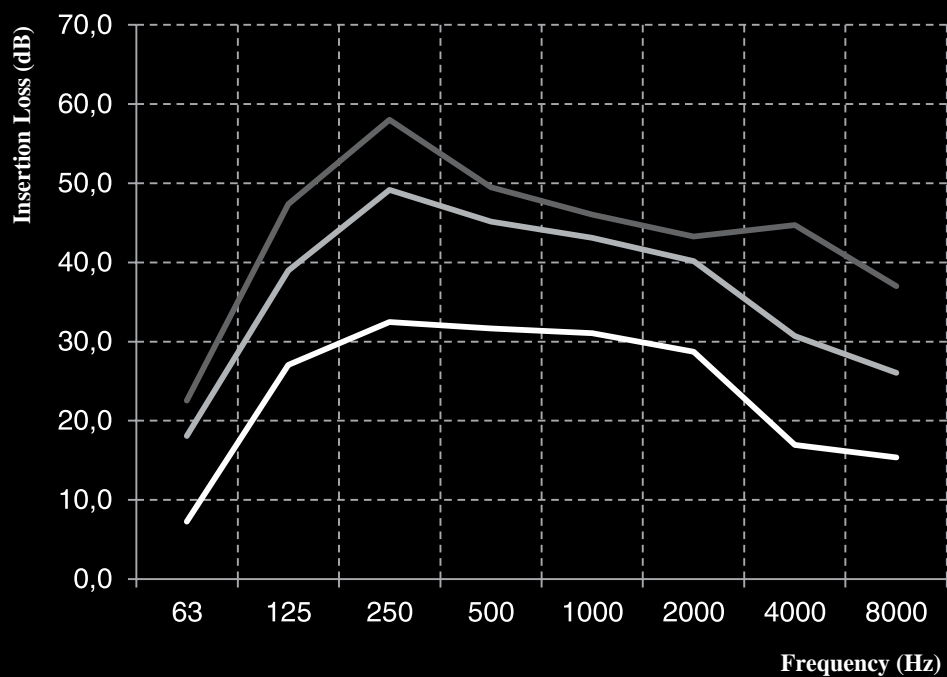
SONOAFS-ALU.F FORTE

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- SONOAFS-ALU.FB FORTE
- SONOAFS-ALU.F FORTE ECOSOFT
- SONOAFS-ALU.FB FORTE ECOSOFT

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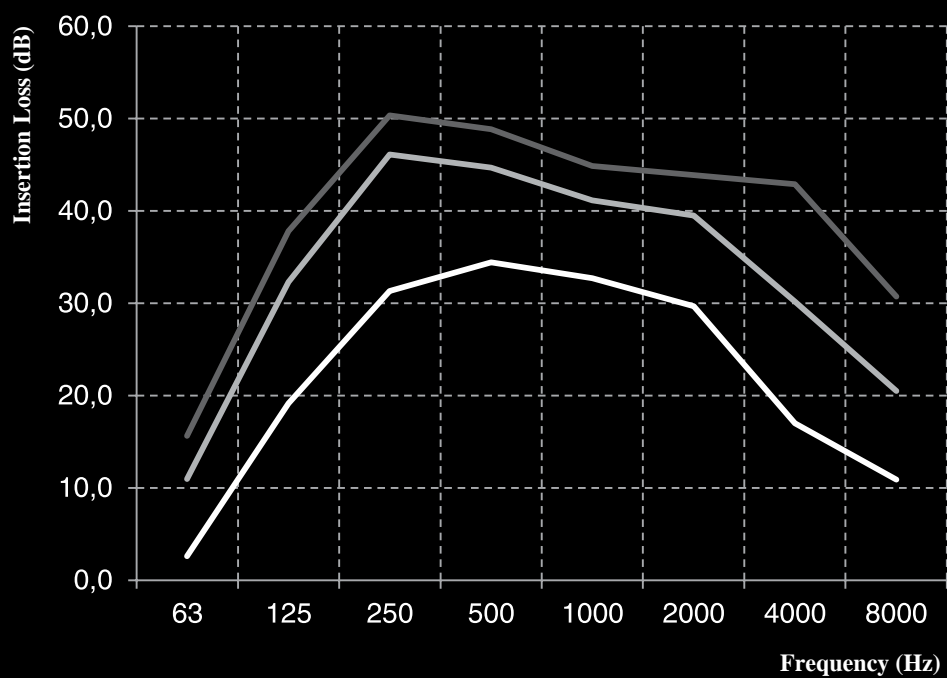


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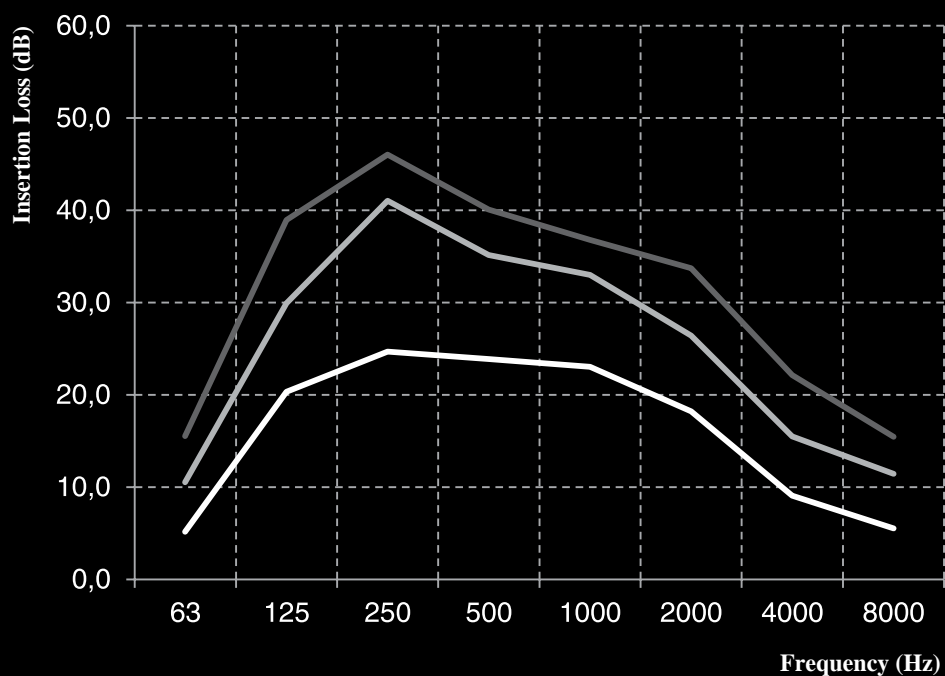
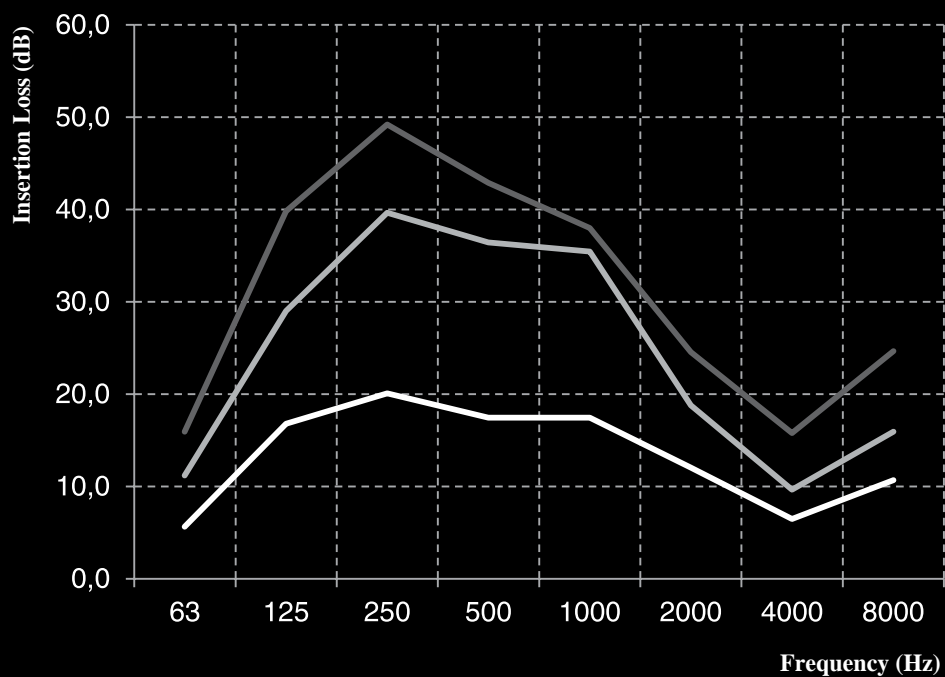


f	63	125	250	500	1000	2000	4000	8000
1m	7,3	27,0	32,5	31,7	31,0	28,7	16,9	15,4
2m	18,1	39,0	49,2	45,1	43,1	40,2	30,7	26,1
3m	22,6	47,4	58,0	49,5	46,1	43,3	44,7	37,0

Ø102mm

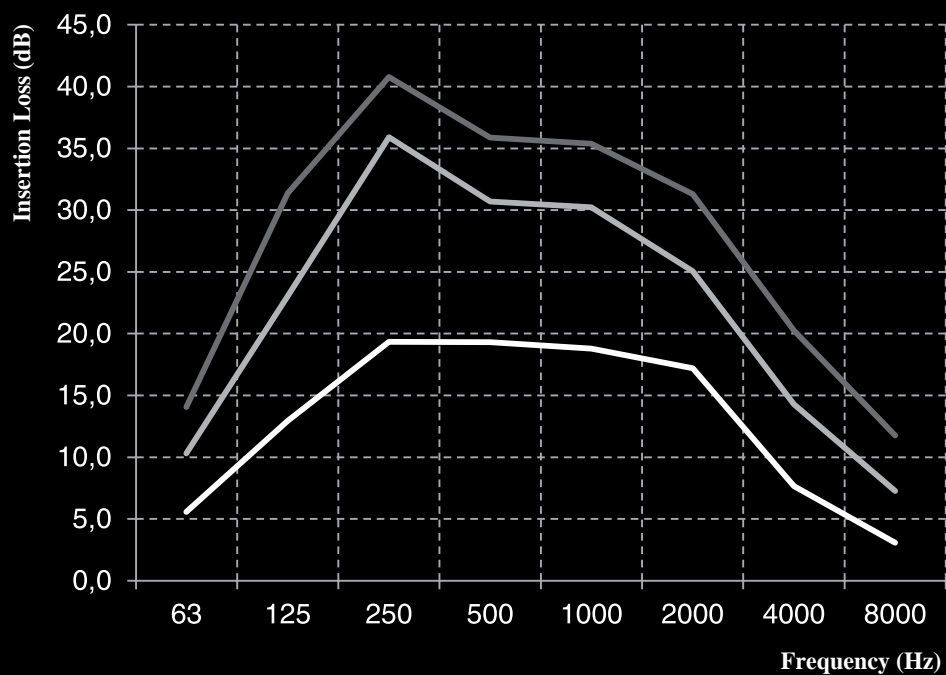


f	63	125	250	500	1000	2000	4000	8000
1m	2,6	19,1	31,3	34,4	32,7	29,7	17,0	10,9
2m	11,0	32,3	46,1	44,7	41,1	39,5	30,2	20,5
3m	15,7	37,8	50,3	48,8	44,9	43,9	42,9	30,7



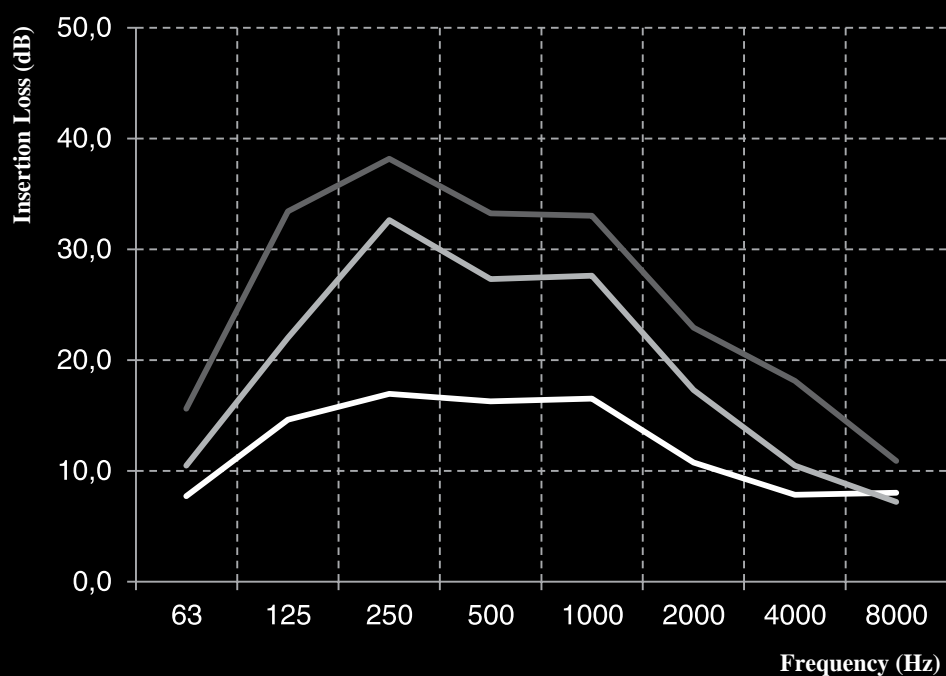
f	63	125	250	500	1000	2000	4000	8000
1m	5,2	20,3	24,7	23,9	23,0	18,2	9,1	5,6
2m	10,6	29,9	41,0	35,1	33,0	26,4	15,5	11,5
3m	15,6	38,9	46,0	40,1	36,8	33,7	22,2	15,5

Ø203mm

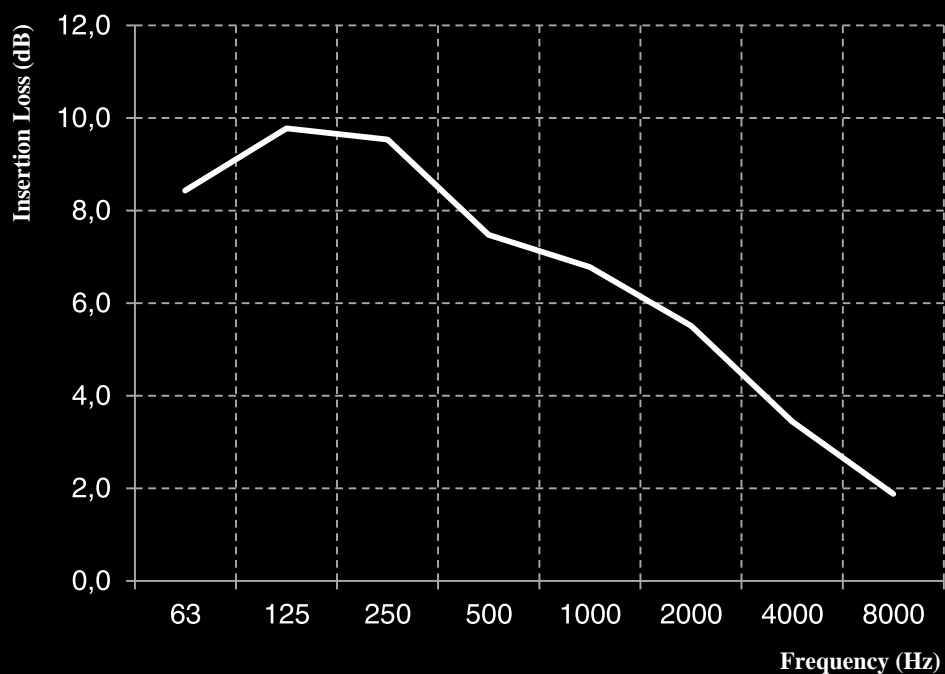
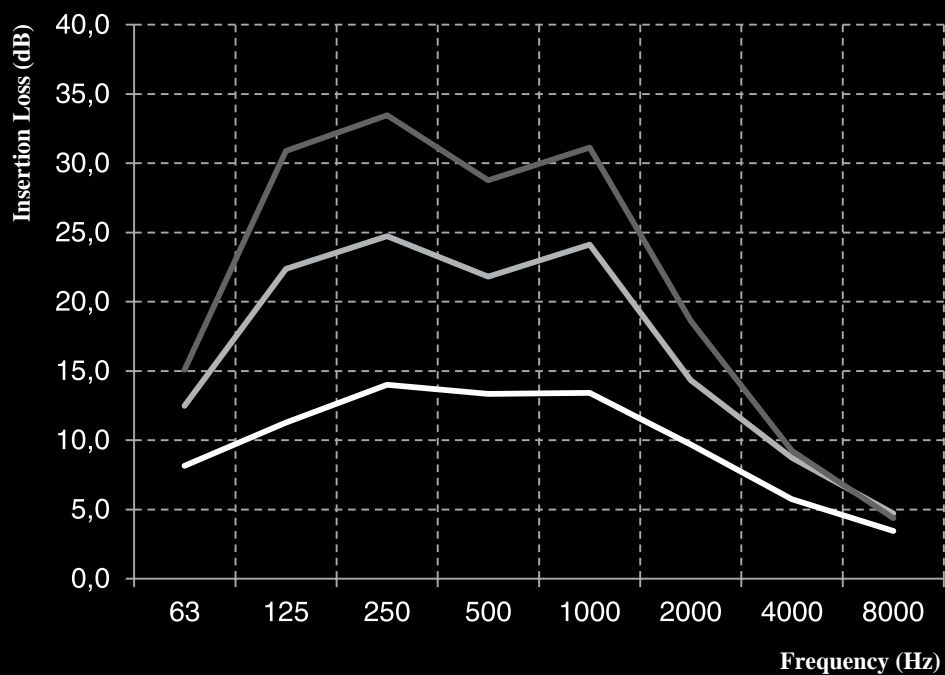


f	63	125	250	500	1000	2000	4000	8000
1m	5,6	12,9	19,3	19,3	18,8	17,2	7,7	3,1
2m	10,3	23,0	35,9	30,7	30,2	25,0	14,3	7,3
3m	14,1	31,4	40,8	35,9	35,4	31,3	20,3	11,8

Ø254mm

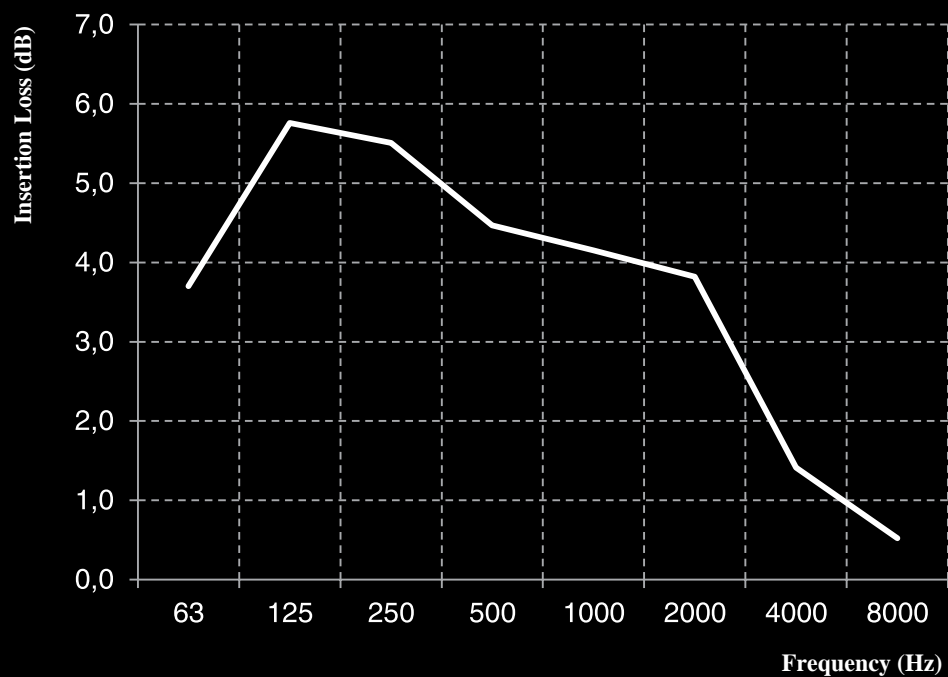


f	63	125	250	500	1000	2000	4000	8000
1m	7,7	14,6	16,9	16,3	16,5	10,8	7,9	8,1
2m	10,5	22,0	32,6	27,3	27,6	17,3	10,5	7,2
3m	15,6	33,4	38,1	33,2	33,0	22,9	18,1	10,9



f	63	125	250	500	1000	2000	4000	8000
1m	8,4	9,8	9,5	7,5	6,8	5,5	3,4	1,9

Ø508mm



f	63	125	250	500	1000	2000	4000	8000
1m	3,7	5,8	5,5	4,5	4,2	3,8	1,4	0,5

SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
FORTE SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIA
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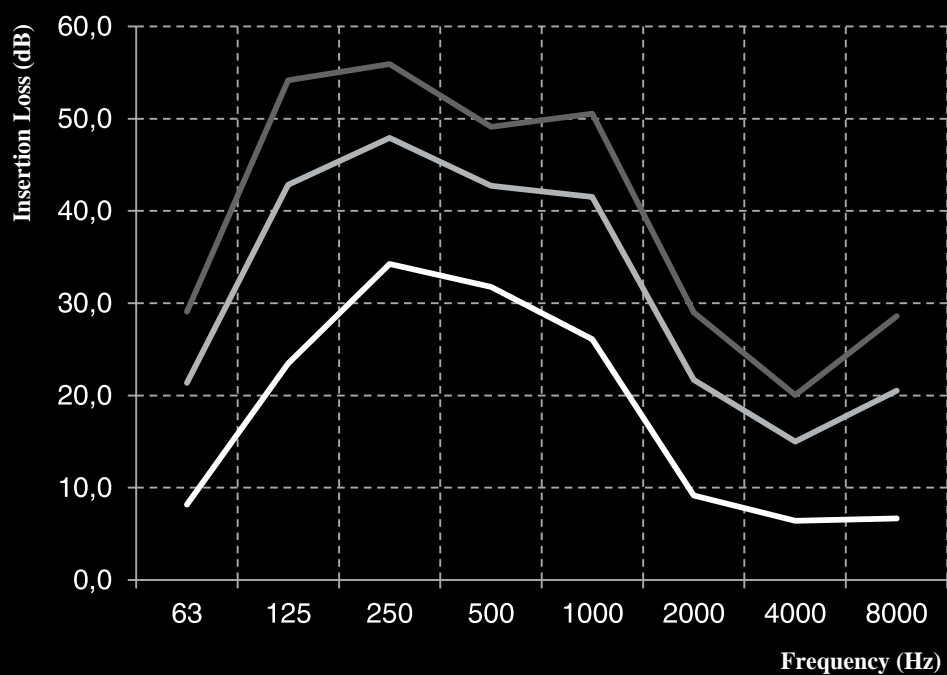
SONOAFS-ALU.F FORTE (50 mm Insulation)

- SONOAFS-ALU.F FORTE (50 mm Insulation)
- SONOAFS-ALU.FB FORTE (50 mm Insulation)
- SONOAFS-ALU.F FORTE ECOSOFT (50 mm Insulation)
- SONOAFS-ALU.FB FORTE ECOSOFT (50 mm Insulation)

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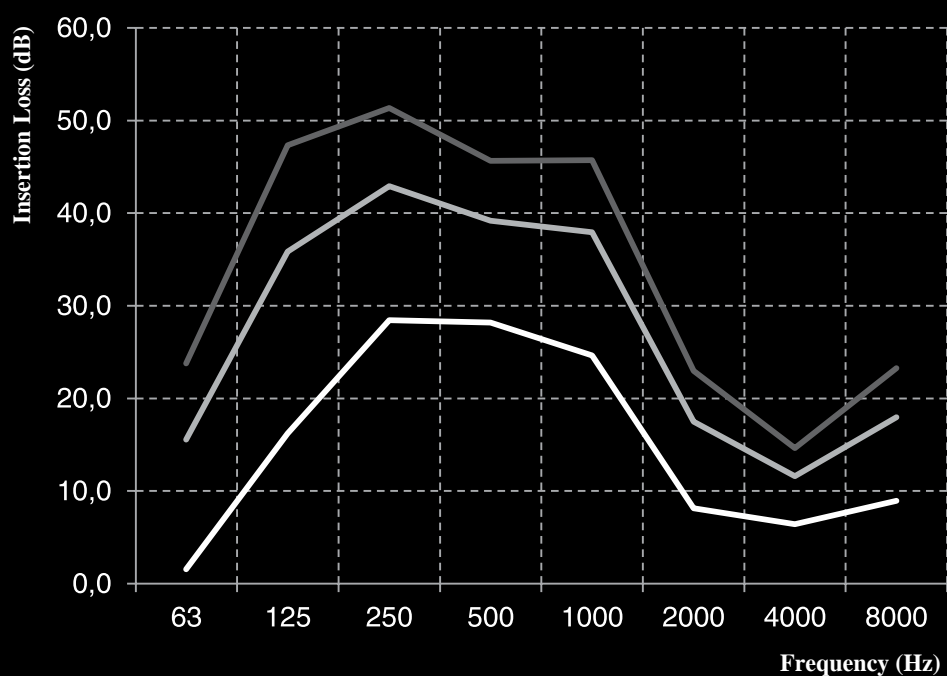


Ø102mm

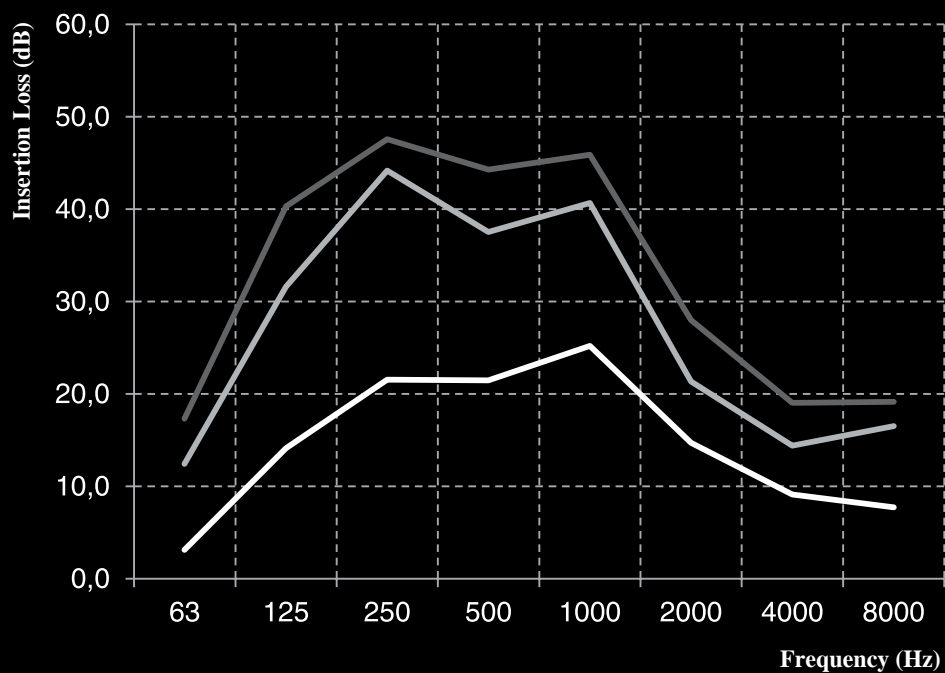


f	63	125	250	500	1000	2000	4000	8000
1m	8,2	23,5	34,2	31,8	26,1	9,2	6,4	6,7
2m	21,4	42,8	47,9	42,7	41,5	21,7	15,0	20,5
3m	29,1	54,2	55,9	49,1	50,5	29,0	20,1	28,6

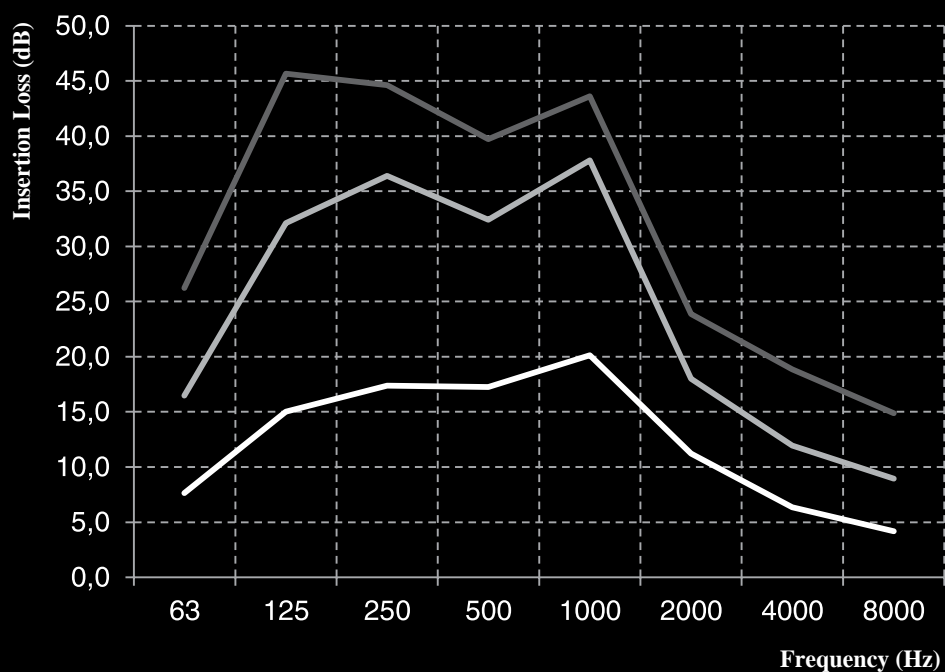
Ø127mm



f	63	125	250	500	1000	2000	4000	8000
1m	1,6	16,2	28,4	28,2	24,6	8,2	6,4	9,0
2m	15,6	35,8	42,9	39,2	37,9	17,5	11,6	18,0
3m	23,8	47,3	51,3	45,6	45,7	23,0	14,7	23,3

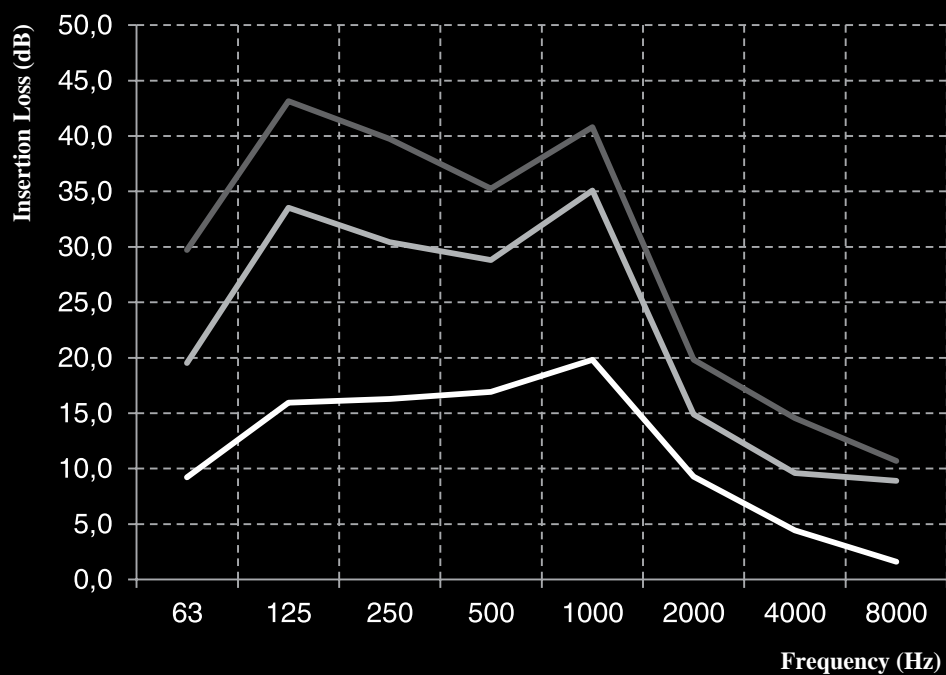


Ø160mm



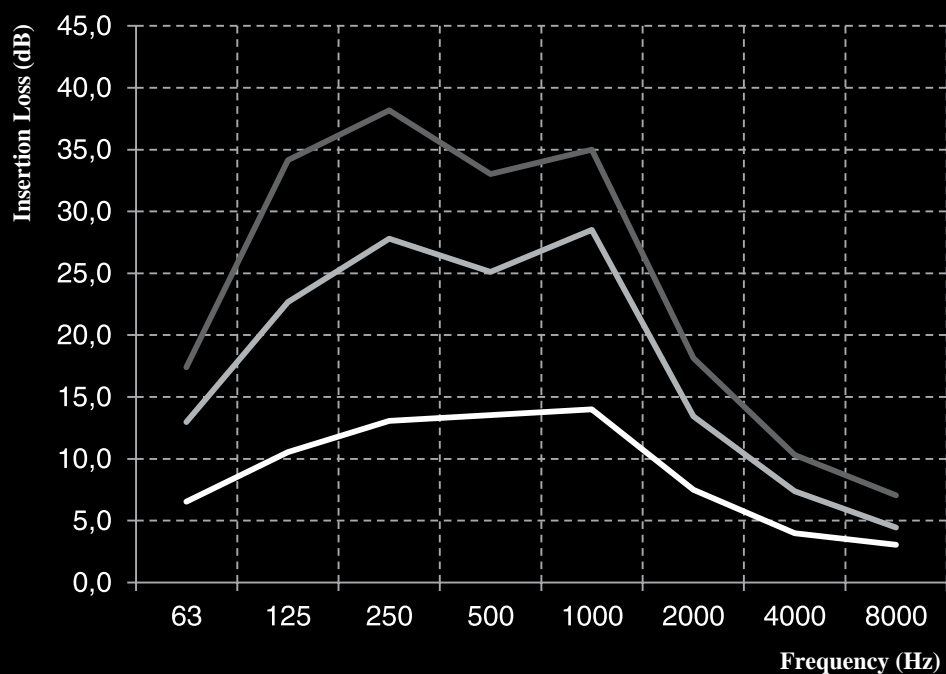
Ø203mm

Ø254mm

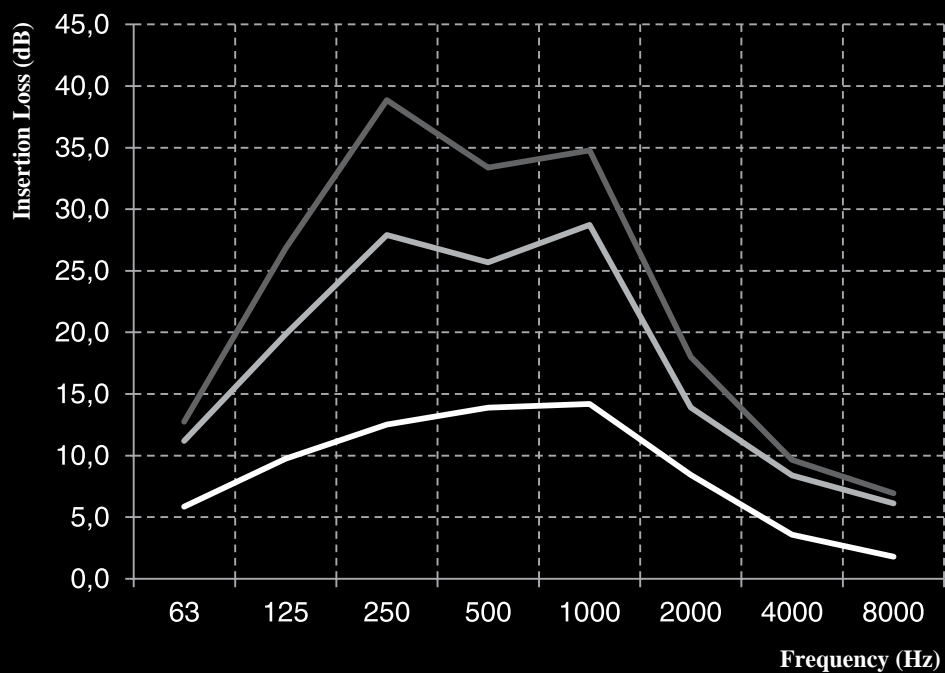


f	63	125	250	500	1000	2000	4000	8000
1m	9,2	15,9	16,3	16,9	19,8	9,3	4,4	1,6
2m	19,5	33,5	30,4	28,8	35,1	14,9	9,6	8,9
3m	29,7	43,1	39,7	35,3	40,8	19,8	14,6	10,7

Ø305mm

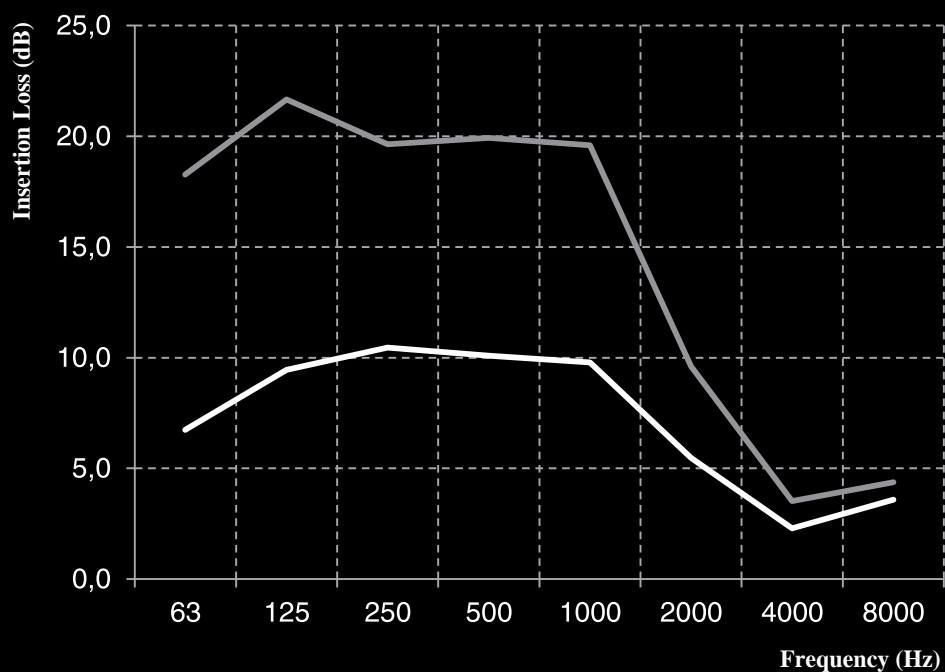


f	63	125	250	500	1000	2000	4000	8000
1m	6,5	10,5	13,1	13,5	14,0	7,5	4,0	3,1
2m	13,0	22,7	27,8	25,1	28,5	13,4	7,4	4,5
3m	17,4	34,1	38,2	33,0	35,0	18,2	10,3	7,1



f	63	125	250	500	1000	2000	4000	8000
1m	5,9	9,7	12,5	13,9	14,2	8,4	3,6	1,8
2m	11,2	19,8	27,9	25,7	28,7	13,9	8,4	6,1
3m	12,8	26,8	38,8	33,4	34,8	18,0	9,7	7,0

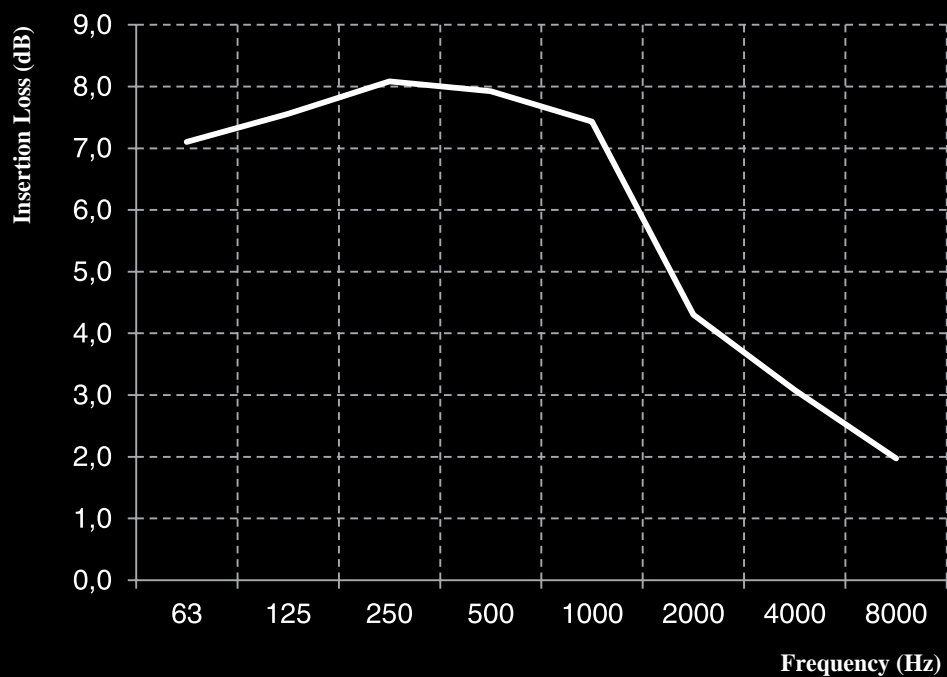
Ø315mm



f	63	125	250	500	1000	2000	4000	8000
1m	6,7	9,4	10,4	10,1	9,8	5,5	2,3	3,6
2m	18,3	21,7	19,6	19,9	19,6	9,6	3,5	4,4

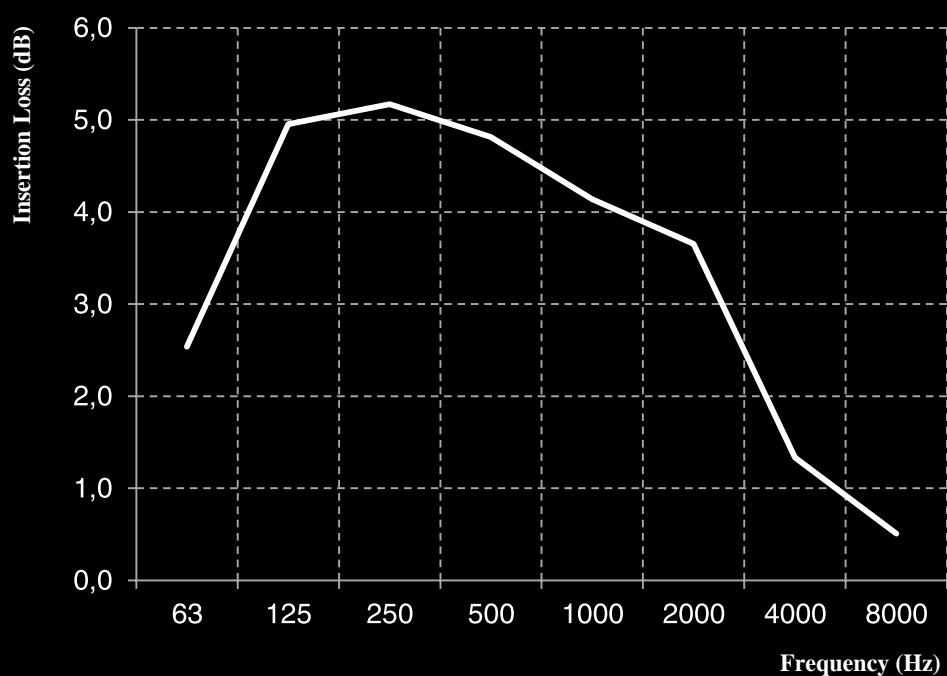
Ø406mm

Ø457mm



f	63	125	250	500	1000	2000	4000	8000
1m	7,1	7,6	8,1	7,9	7,4	4,3	3,1	2,0

Ø508mm



f	63	125	250	500	1000	2000	4000	8000
1m	2,5	5,0	5,2	4,8	4,1	3,7	1,3	0,5

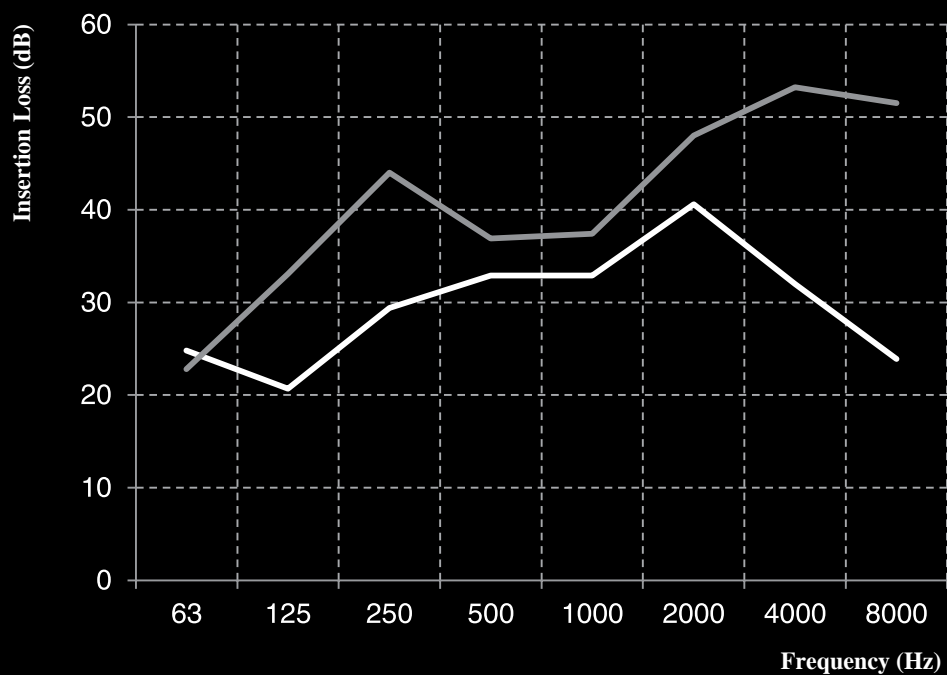
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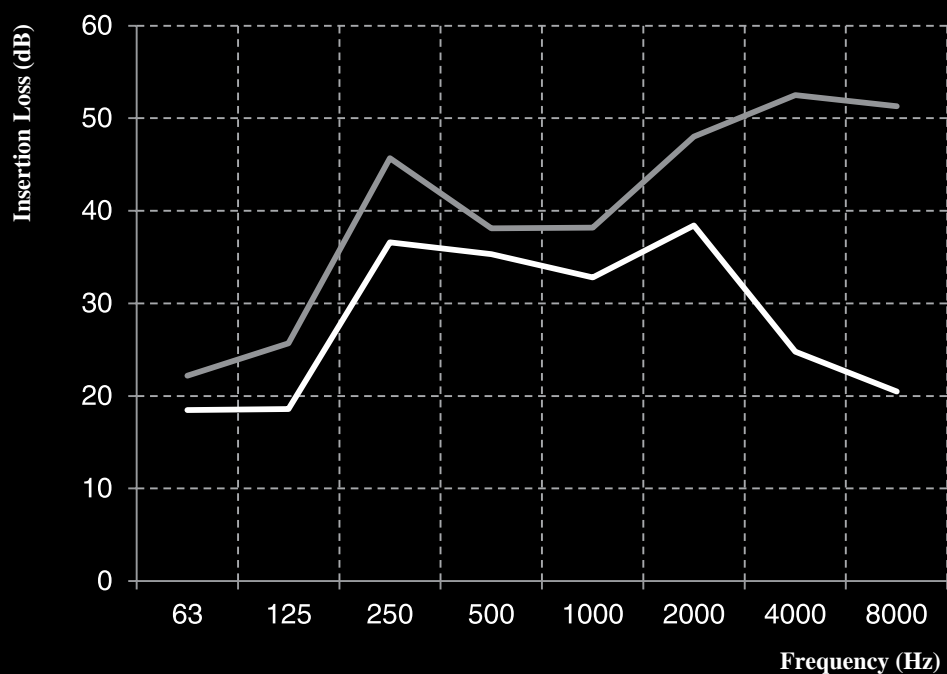


Ø82mm

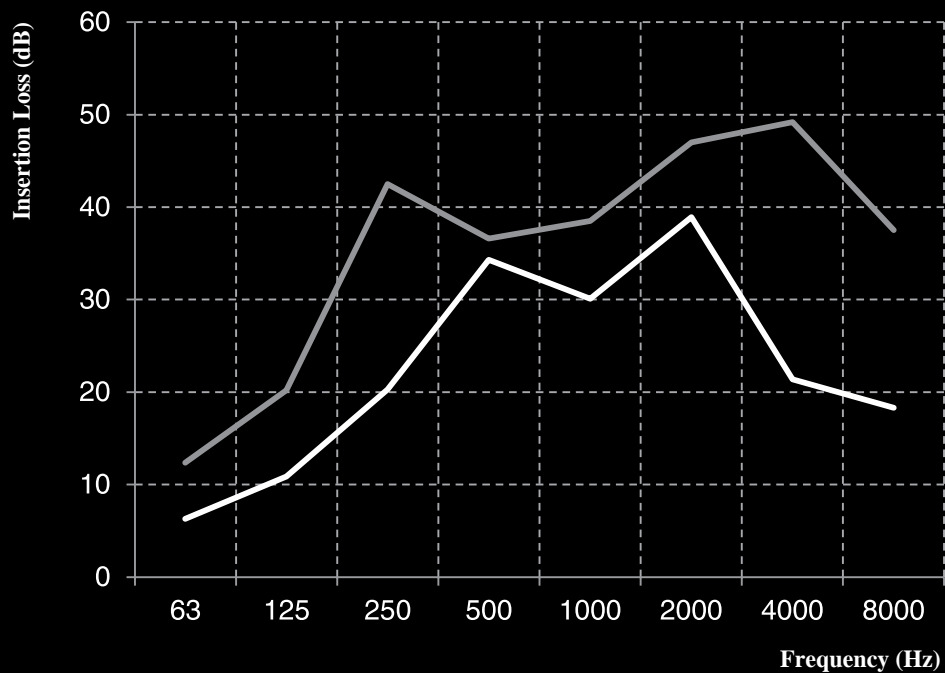


f	63	125	250	500	1000	2000	4000	8000
1m	24,8	20,7	29,4	32,9	32,9	40,6	32	23,9
3m	22,8	33,1	44	36,9	37,4	48	53,2	51,5

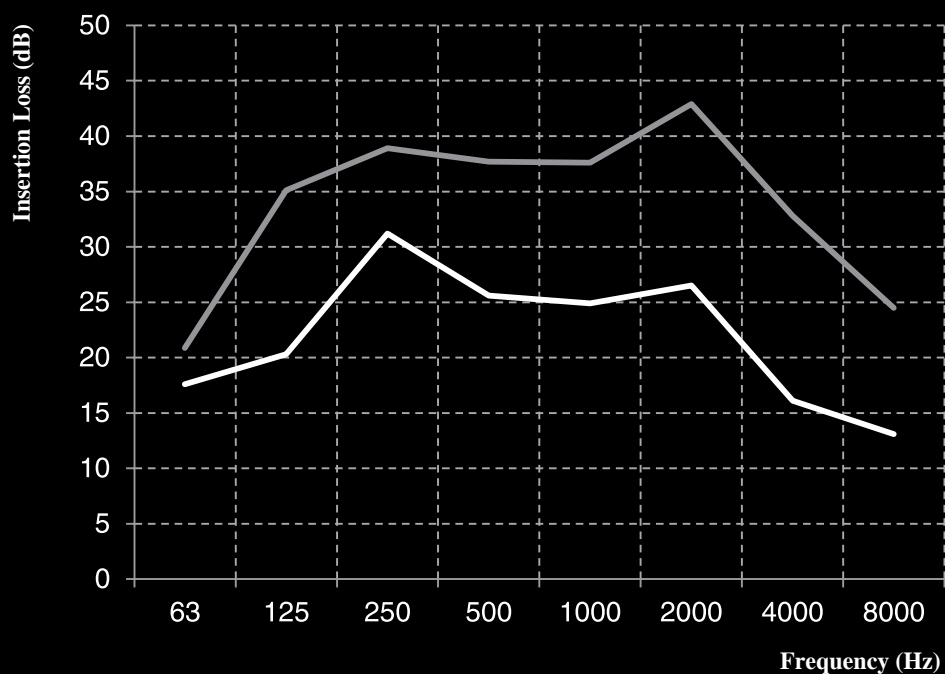
Ø102mm



f	63	125	250	500	1000	2000	4000	8000
1m	18,5	18,6	36,6	35,3	32,8	38,4	24,8	20,5
3m	22,2	25,7	45,7	38,1	38,2	48	52,5	51,3

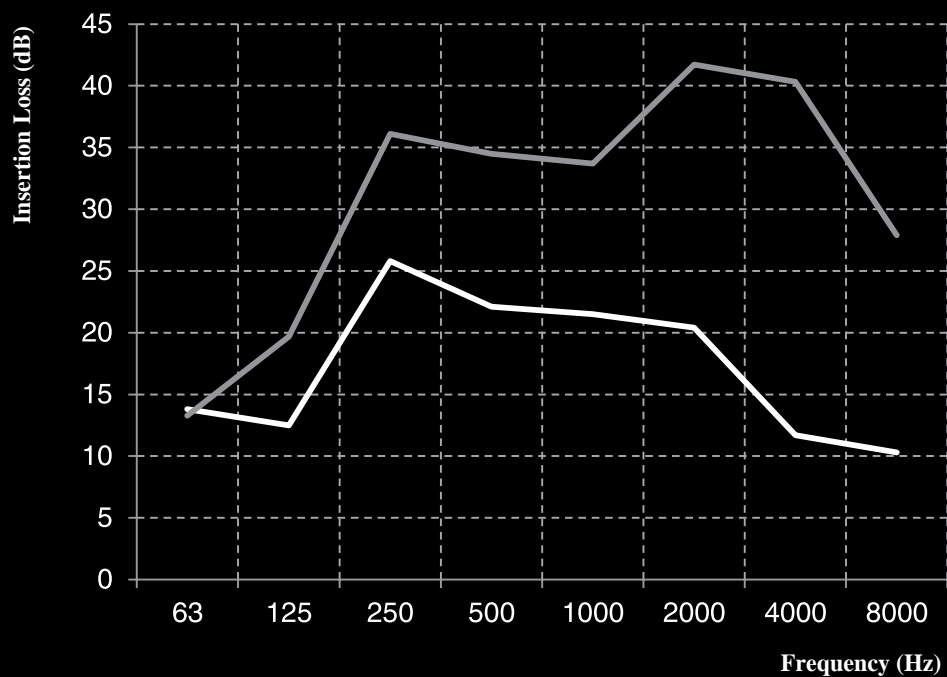


Ø127mm



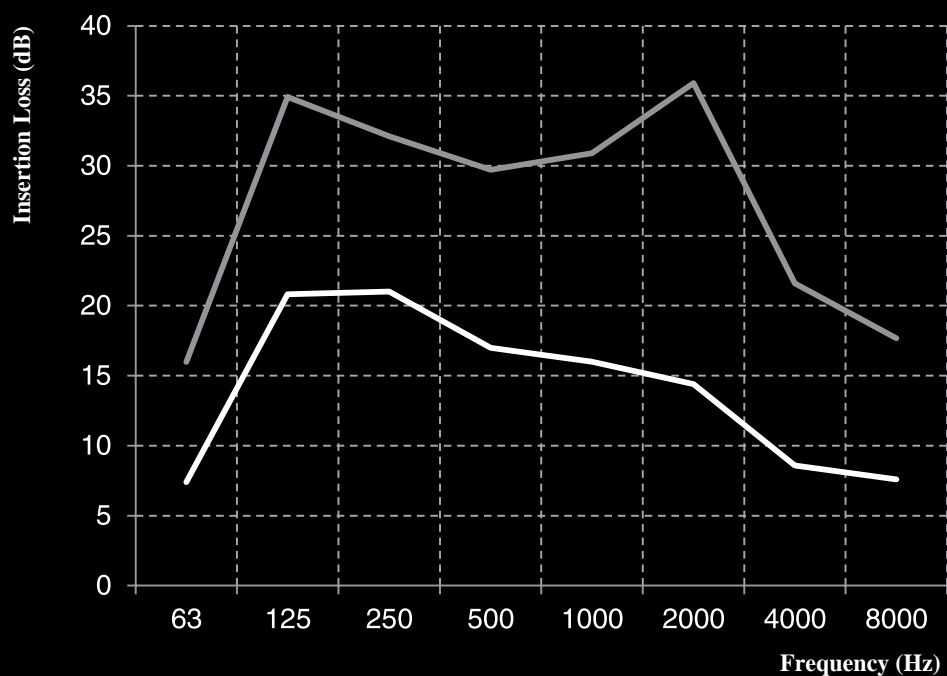
Ø160mm

Ø203mm

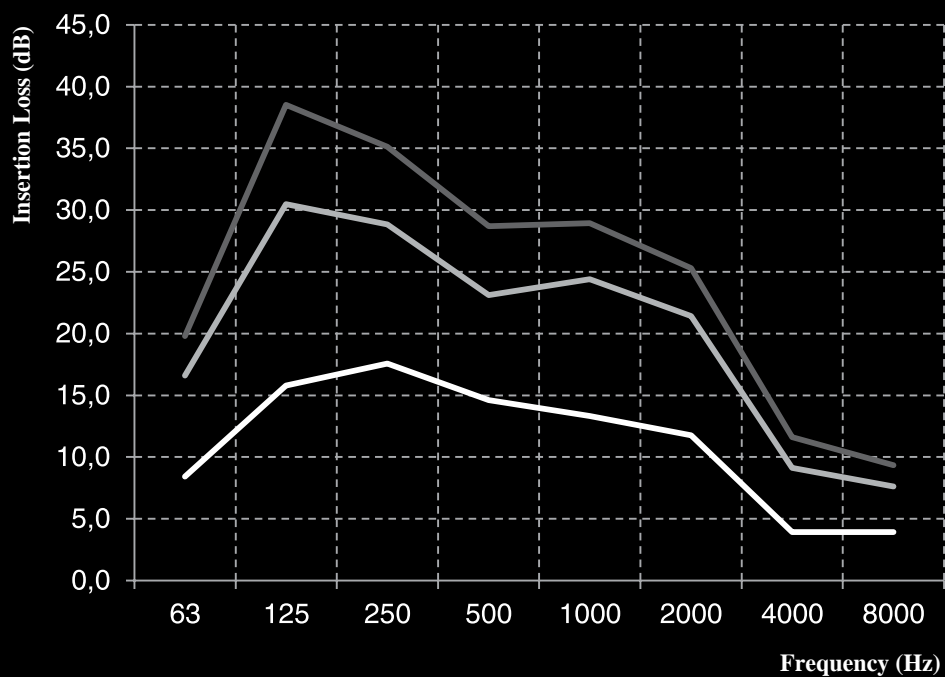


f	63	125	250	500	1000	2000	4000	8000
1m	13,8	12,5	25,8	22,1	21,5	20,4	11,7	10,3
3m	13,3	19,7	36,1	34,5	33,7	41,7	40,3	27,9

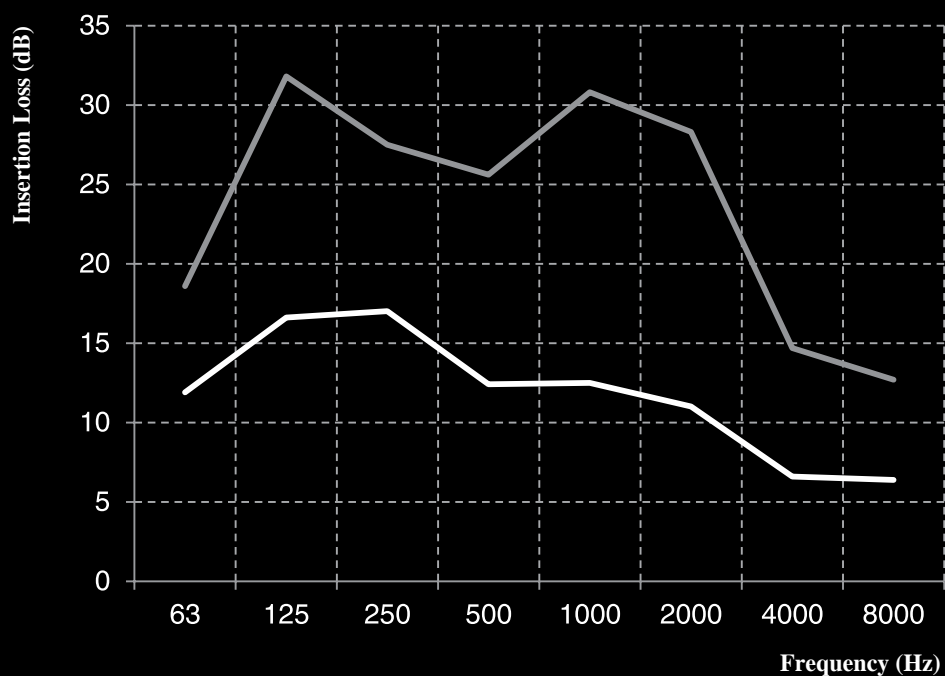
Ø254mm



f	63	125	250	500	1000	2000	4000	8000
1m	7,4	20,8	21	17	16	14,4	8,6	7,6
3m	16	34,9	32,1	29,7	30,9	35,9	21,6	17,7



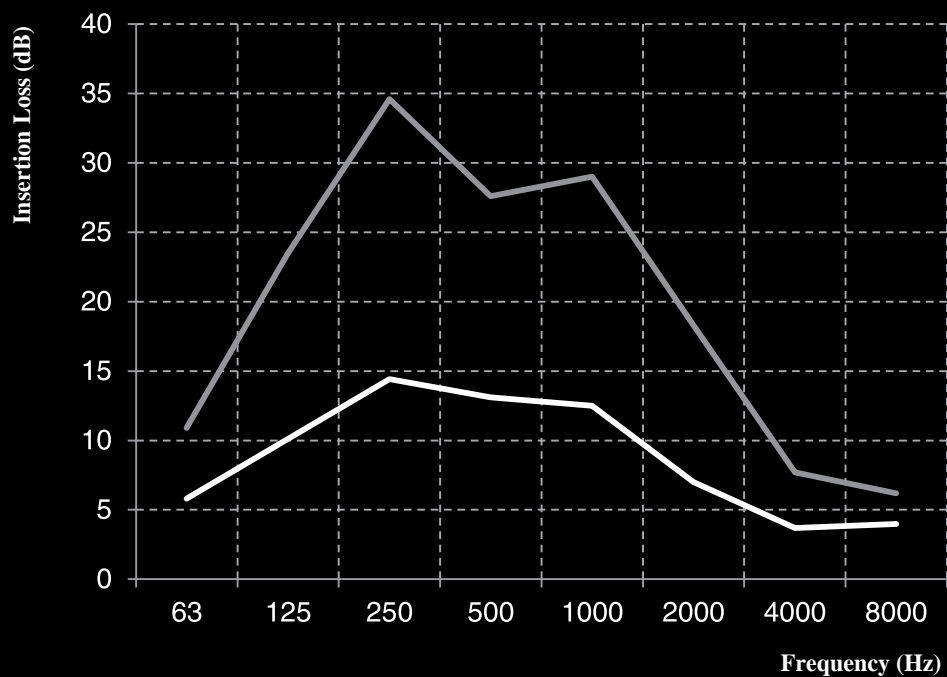
Ø305mm



Ø315mm

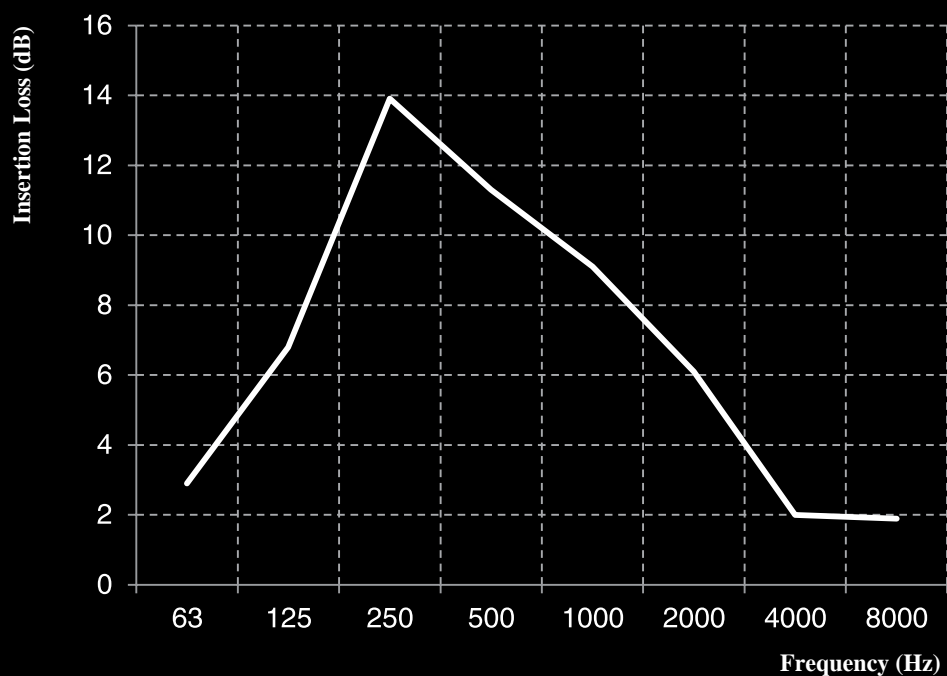
f	63	125	250	500	1000	2000	4000	8000
1m	11,9	16,6	17	12,4	12,5	11	6,6	6,4
3m	18,6	31,8	27,5	25,6	30,8	28,3	14,7	12,7

Ø356mm

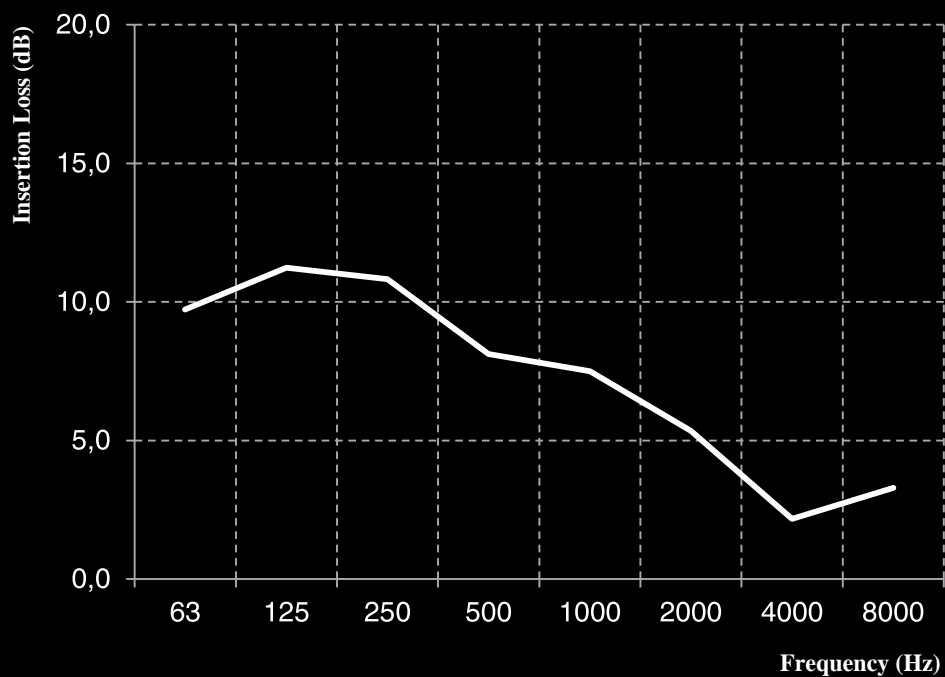


f	63	125	250	500	1000	2000	4000	8000
1m	5,8	10,1	14,4	13,1	12,5	7,0	3,7	4,0
3m	10,9	23,5	34,6	27,6	29,0	18,3	7,7	6,2

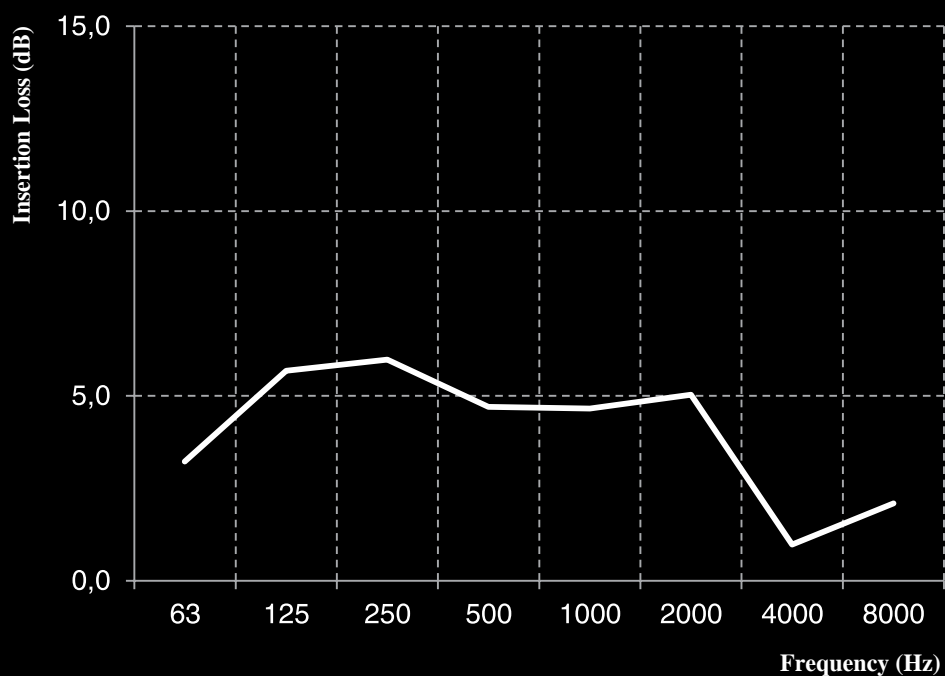
Ø406mm



f	63	125	250	500	1000	2000	4000	8000
1m	2,9	6,8	13,9	11,3	9,1	6,1	2	1,9

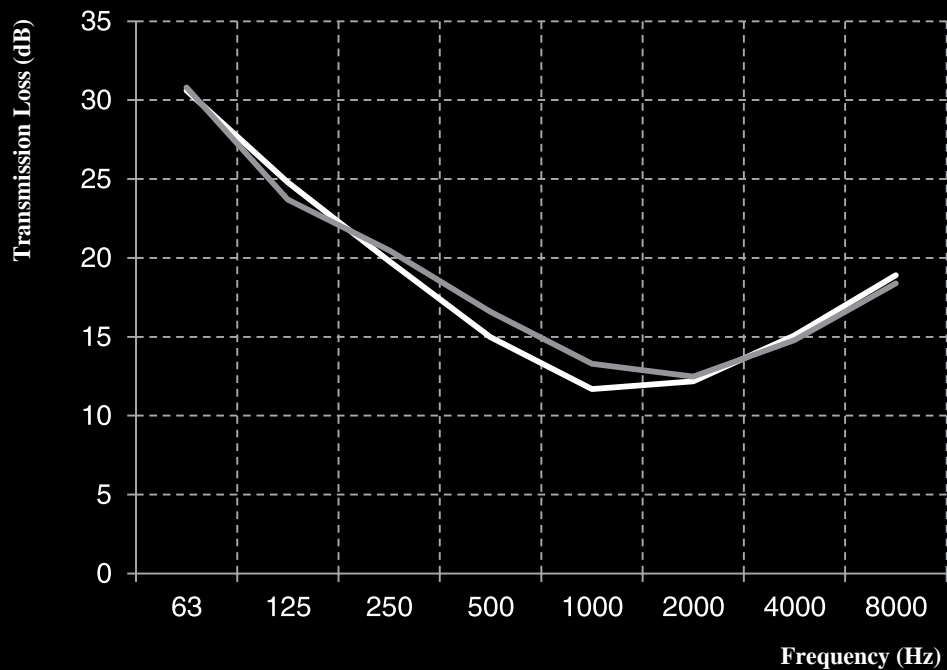


Ø457mm



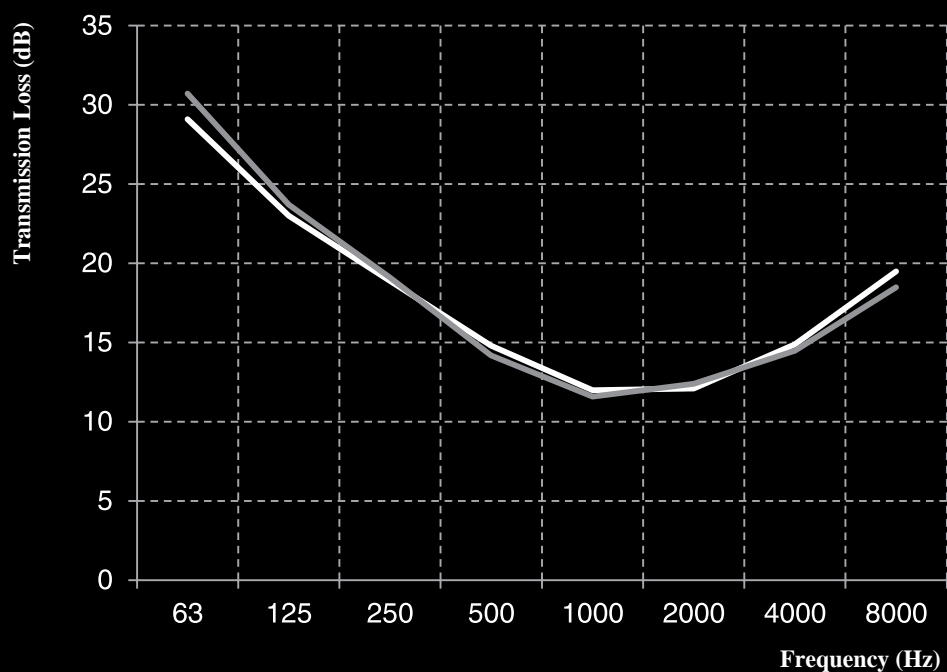
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Ø82mm

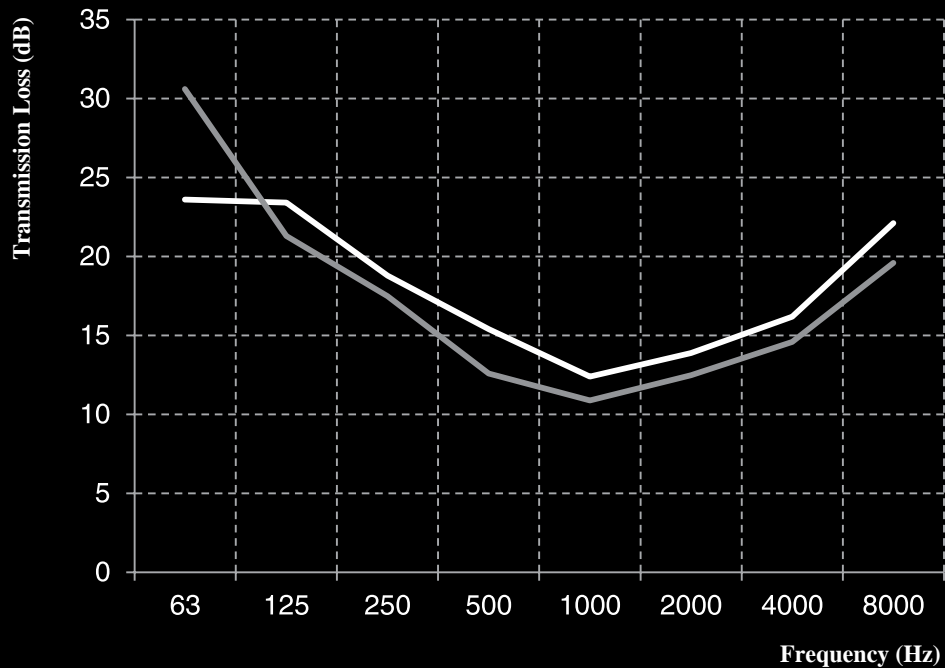


f	63	125	250	500	1000	2000	4000	8000
1m	30,6	24,8	19,8	15	11,7	12,2	15,1	18,9
3m	30,8	23,7	20,5	16,6	13,3	12,5	14,8	18,4

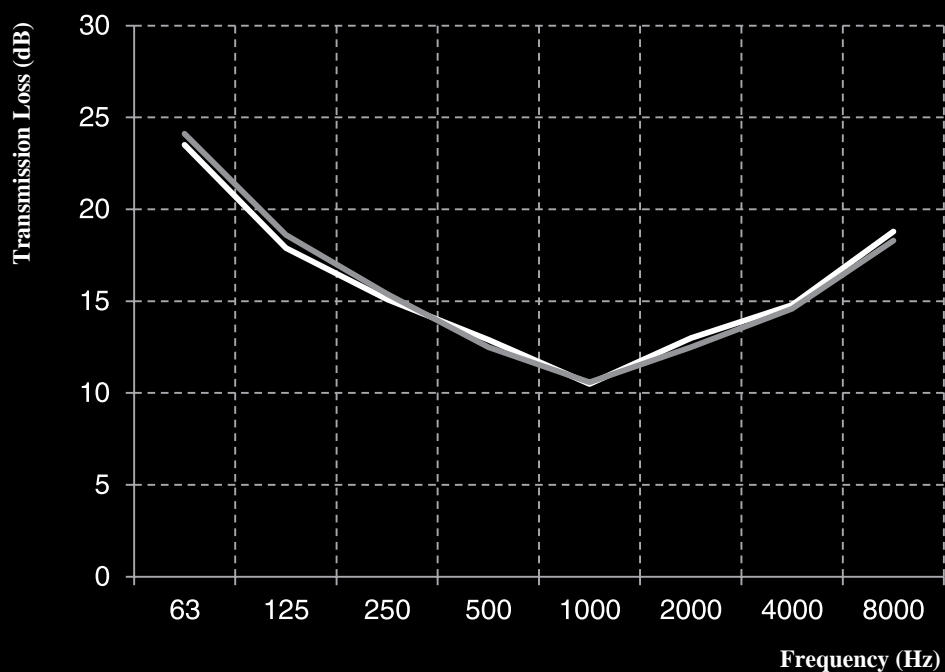
Ø102mm



f	63	125	250	500	1000	2000	4000	8000
1m	29,1	23	18,9	14,8	12	12,1	14,9	19,5
3m	30,7	23,7	19,1	14,2	11,6	12,4	14,5	18,5



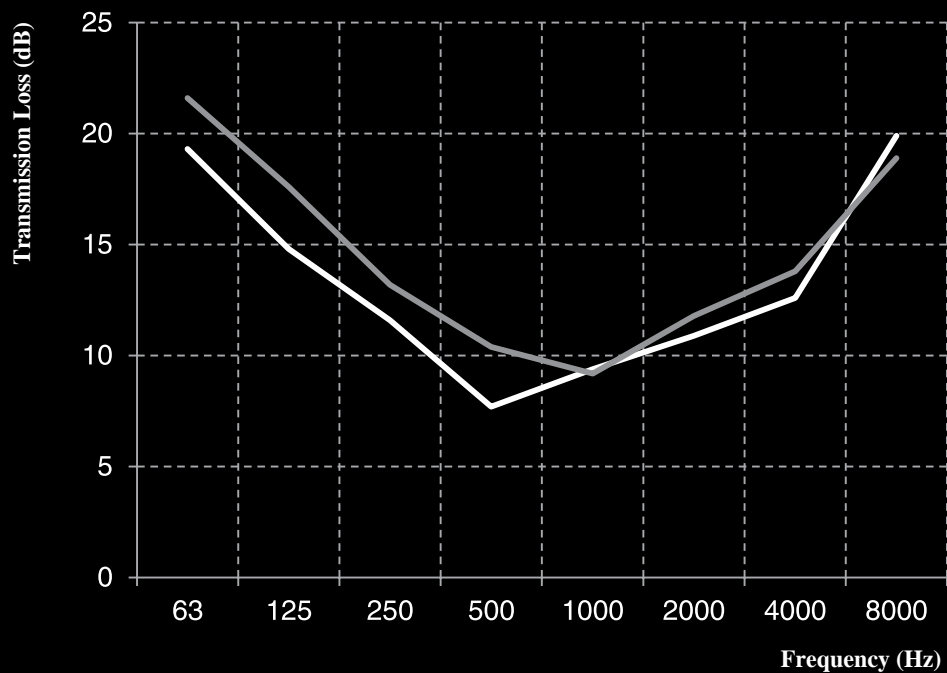
Ø127mm



Ø160mm

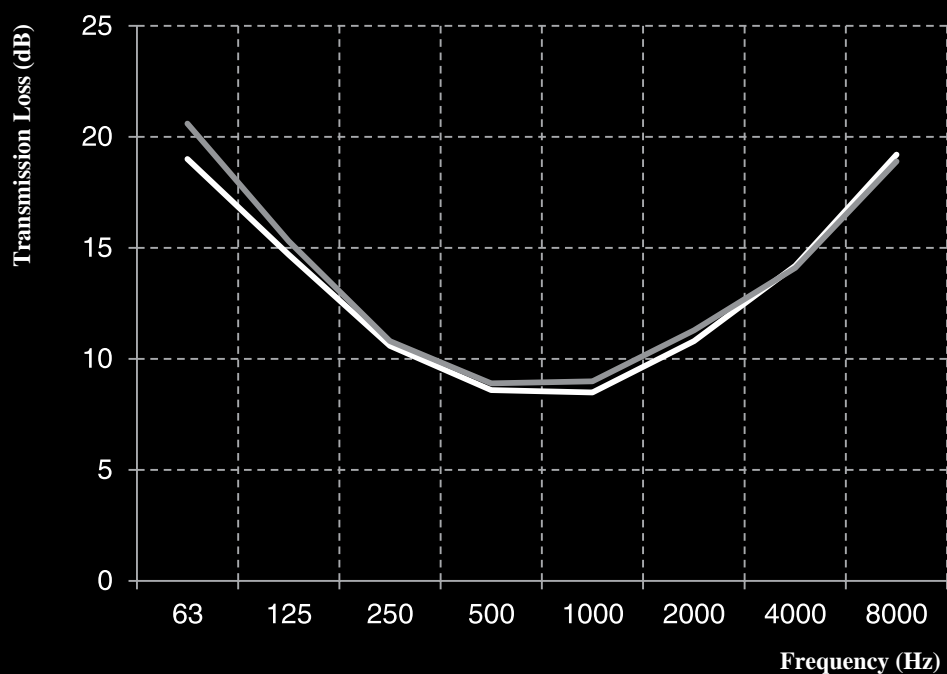
f	63	125	250	500	1000	2000	4000	8000
1m	23,5	17,9	15,1	12,9	10,5	13	14,8	18,8
3m	24,1	18,6	15,4	12,5	10,6	12,5	14,6	18,3

Ø203mm



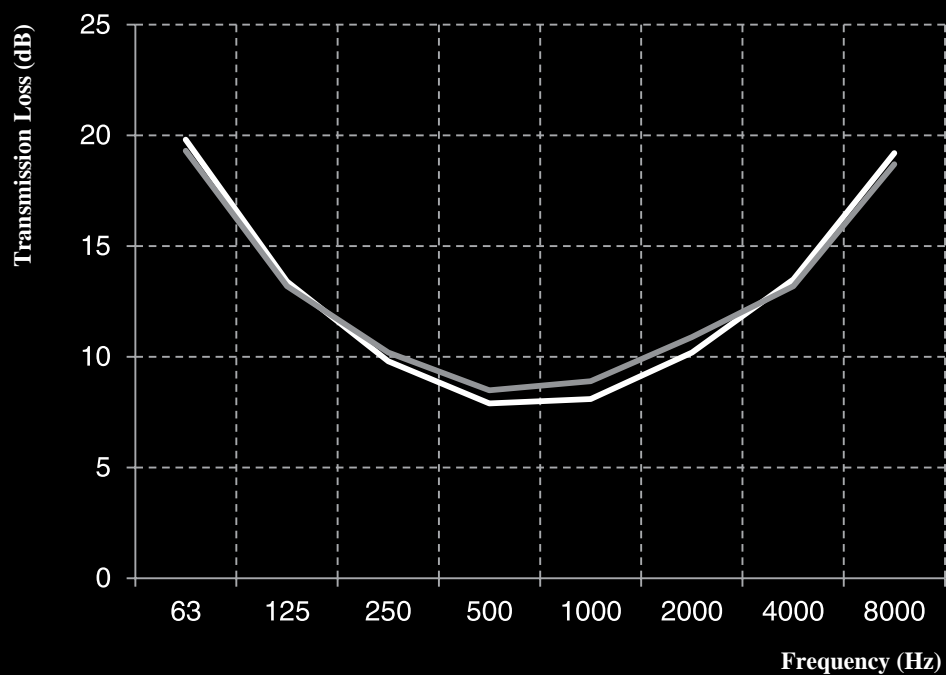
f	63	125	250	500	1000	2000	4000	8000
1m	19,3	14,8	11,6	7,7	9,4	10,9	12,6	19,9
3m	21,6	17,6	13,2	10,4	9,2	11,8	13,8	18,9

Ø254mm



f	63	125	250	500	1000	2000	4000	8000
1m	19,0	14,7	10,6	8,6	8,5	10,8	14,2	19,2
3m	20,6	15,3	10,8	8,9	9,0	11,3	14,1	18,9

Ø315mm



f	63	125	250	500	1000	2000	4000	8000
1m	19,8	13,4	9,8	7,9	8,1	10,2	13,5	19,2
3m	19,3	13,2	10,2	8,5	8,9	10,9	13,2	18,7

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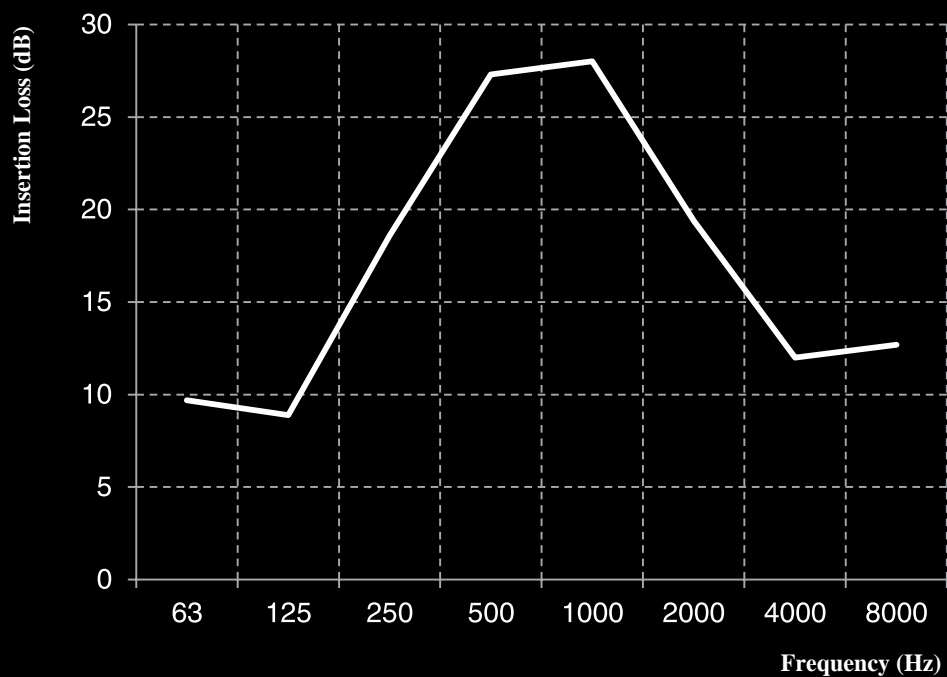
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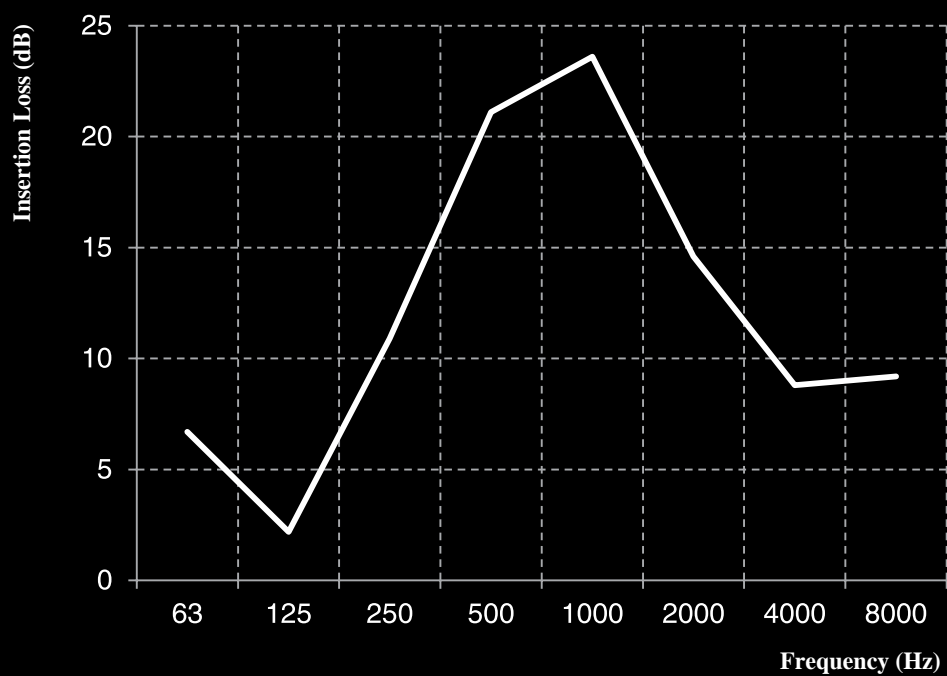


Ø160mm

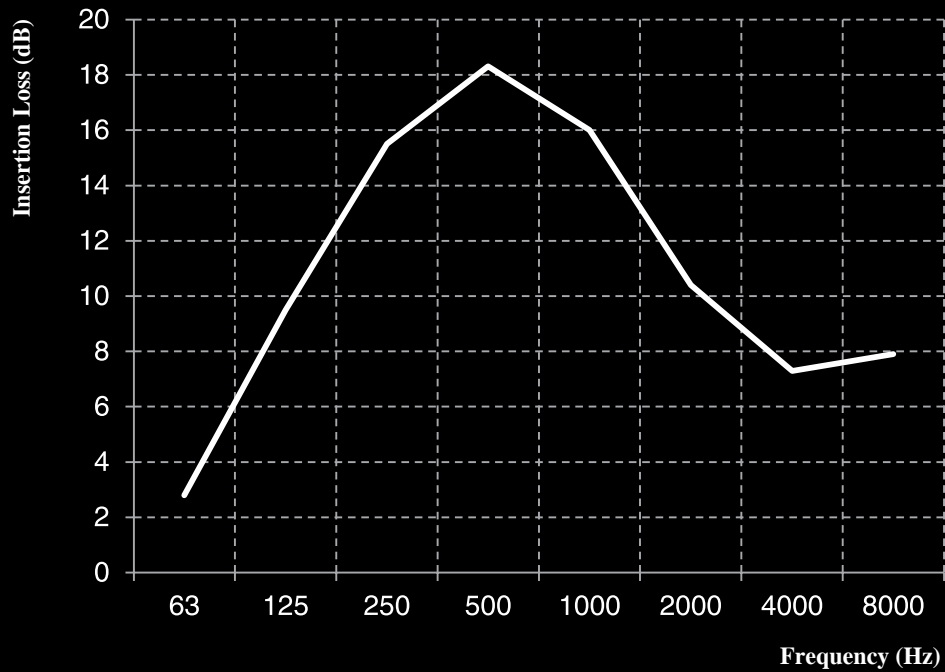


f	63	125	250	500	1000	2000	4000	8000
1m	9,7	8,9	18,6	27,3	28	19,4	12	12,7

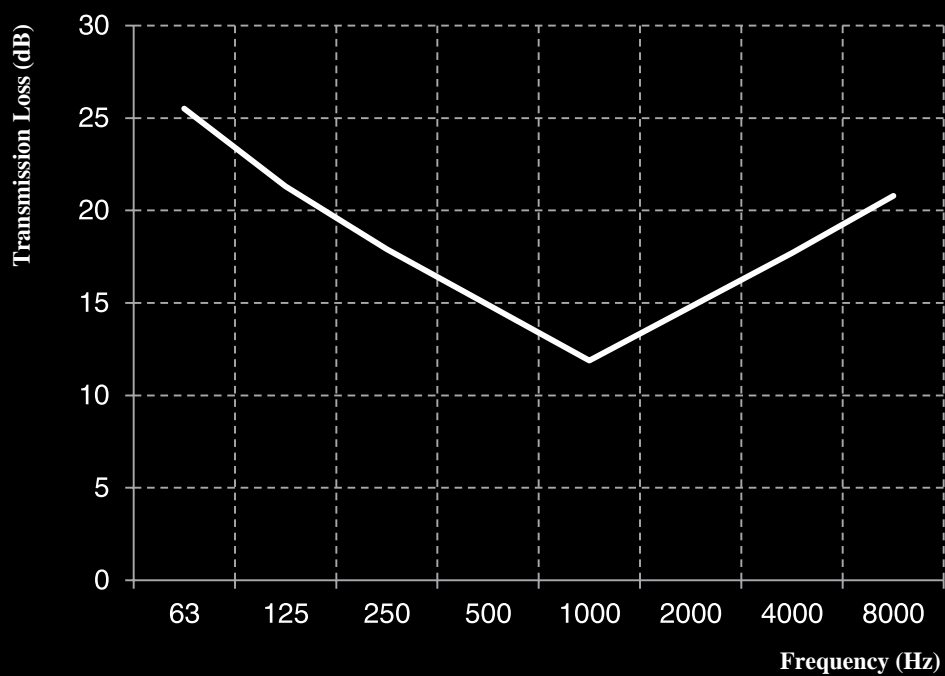
Ø203mm



f	63	125	250	500	1000	2000	4000	8000
1m	6,7	2,2	10,9	21,1	23,6	14,6	8,8	9,2



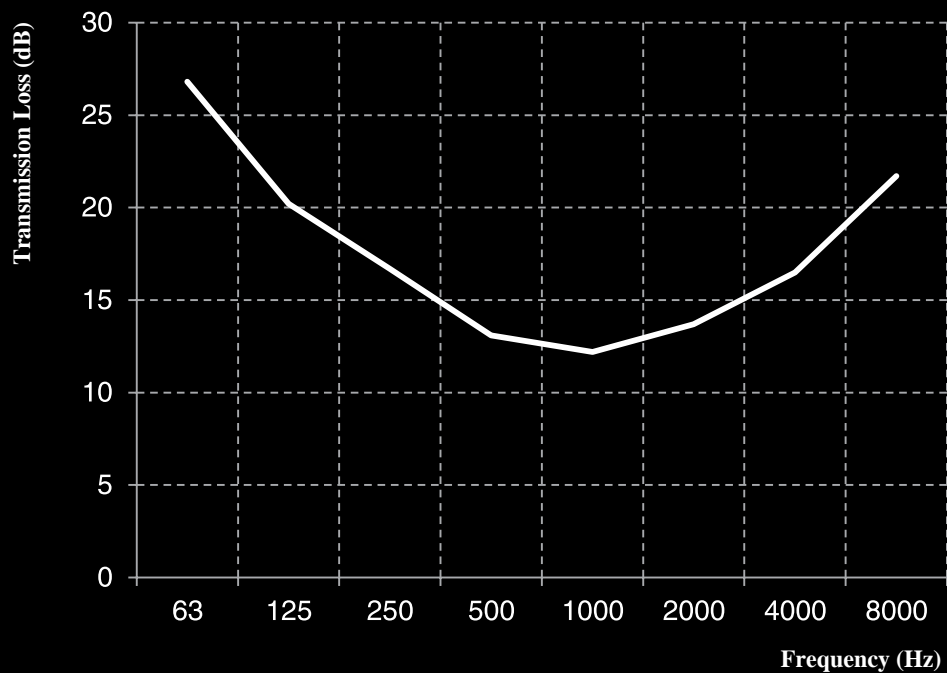
Ø254mm



Ø160mm

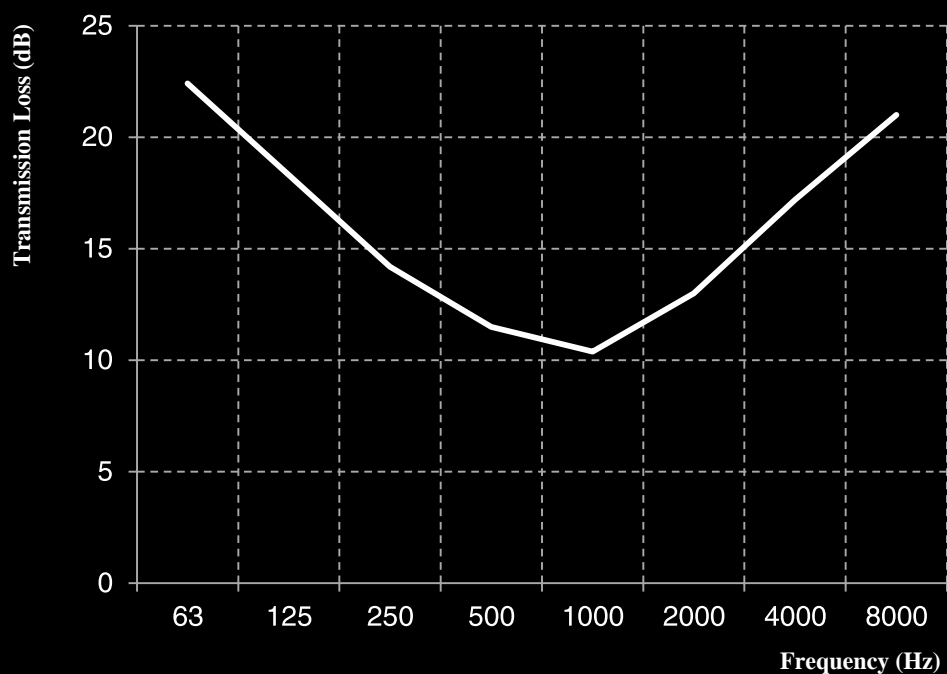
f	63	125	250	500	1000	2000	4000	8000
1m	25,5	21,3	17,9	14,9	11,9	14,8	17,7	20,8

Ø203mm



f	63	125	250	500	1000	2000	4000	8000
1m	26,8	20,2	16,7	13,1	12,2	13,7	16,5	21,7

Ø254mm



f	63	125	250	500	1000	2000	4000	8000
1m	22,4	18,3	14,2	11,5	10,4	13	17,2	21

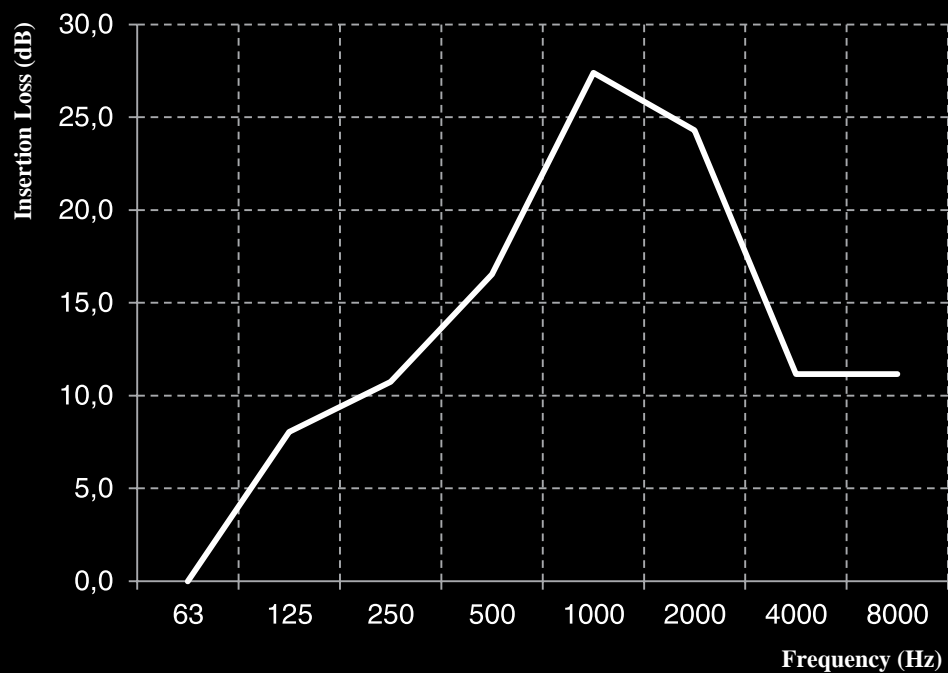
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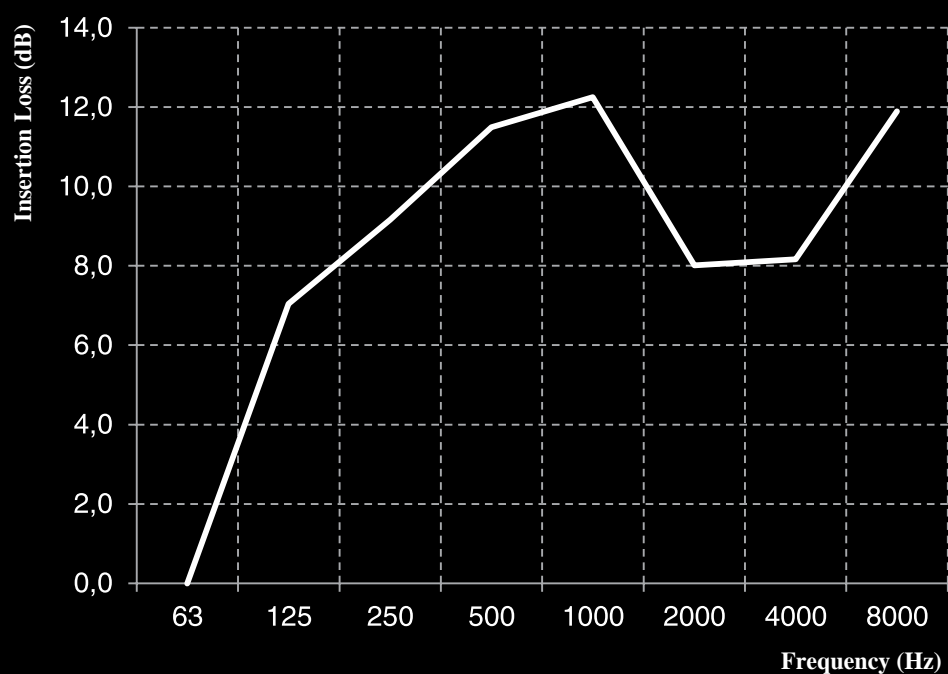


Ø108mm



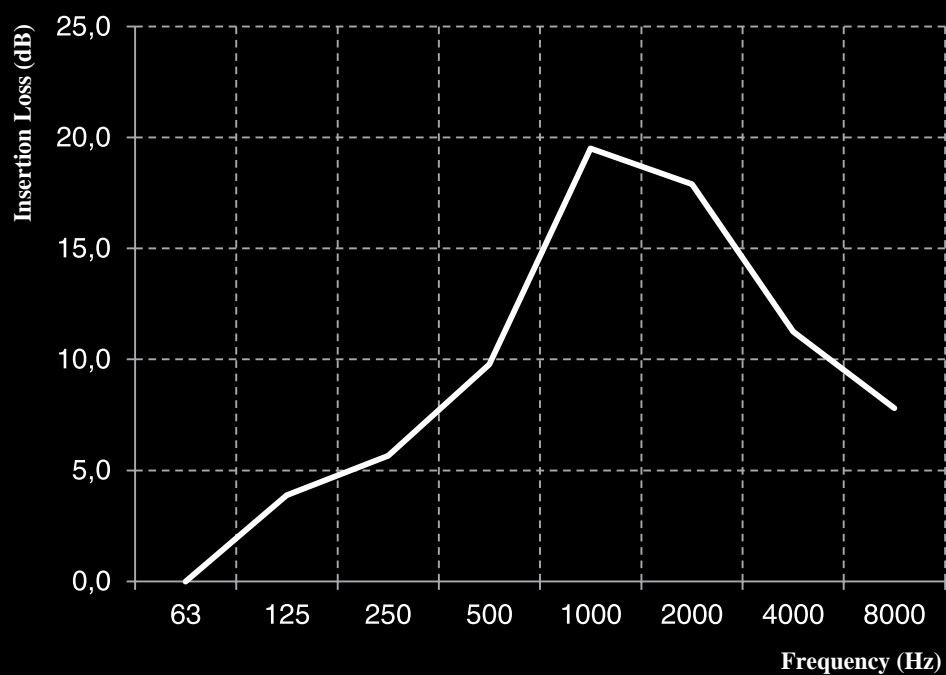
f	63	125	250	500	1000	2000	4000	8000
1m	0,0	8,0	10,7	16,5	27,4	24,3	11,2	11,2

Ø133mm



f	63	125	250	500	1000	2000	4000	8000
1m	0,0	7,0	9,2	11,5	12,2	8,0	8,2	11,9

Ø160mm



f	63	125	250	500	1000	2000	4000	8000
1m	0,0	3,9	5,7	9,8	19,5	17,9	11,3	7,8

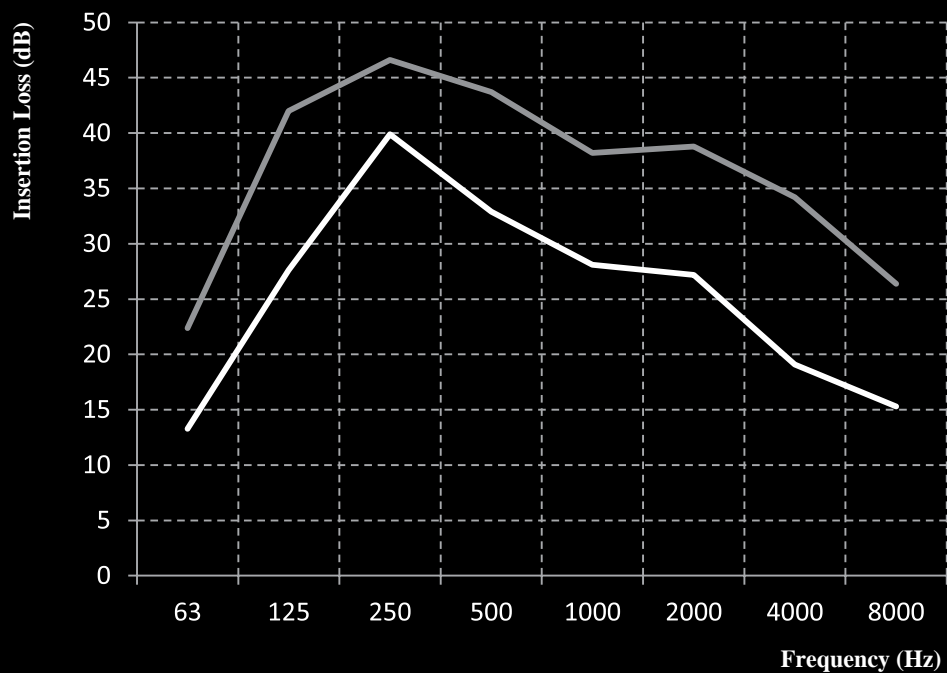
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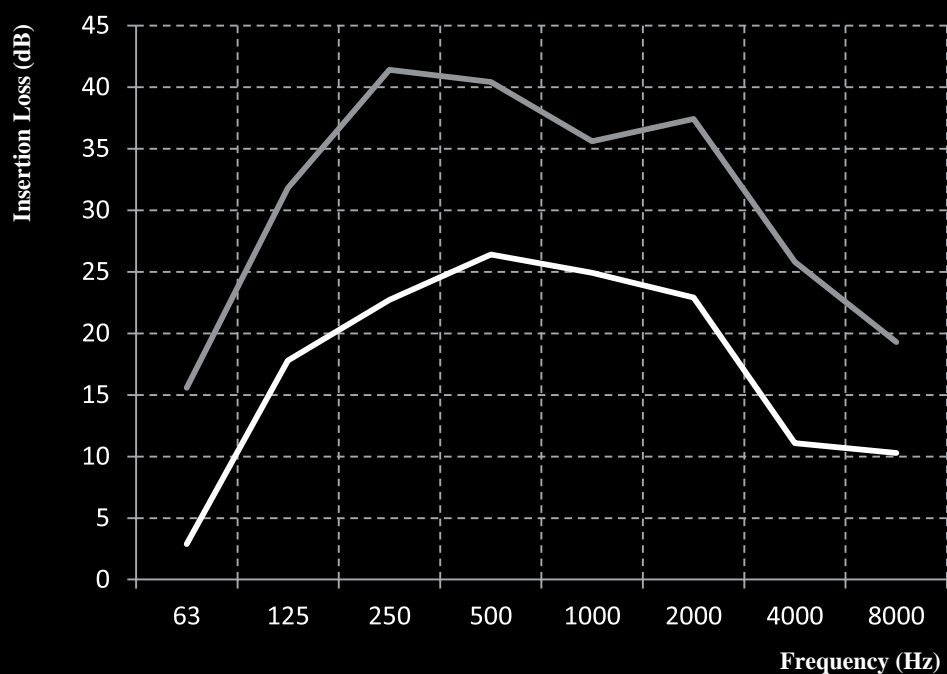


Ø82mm

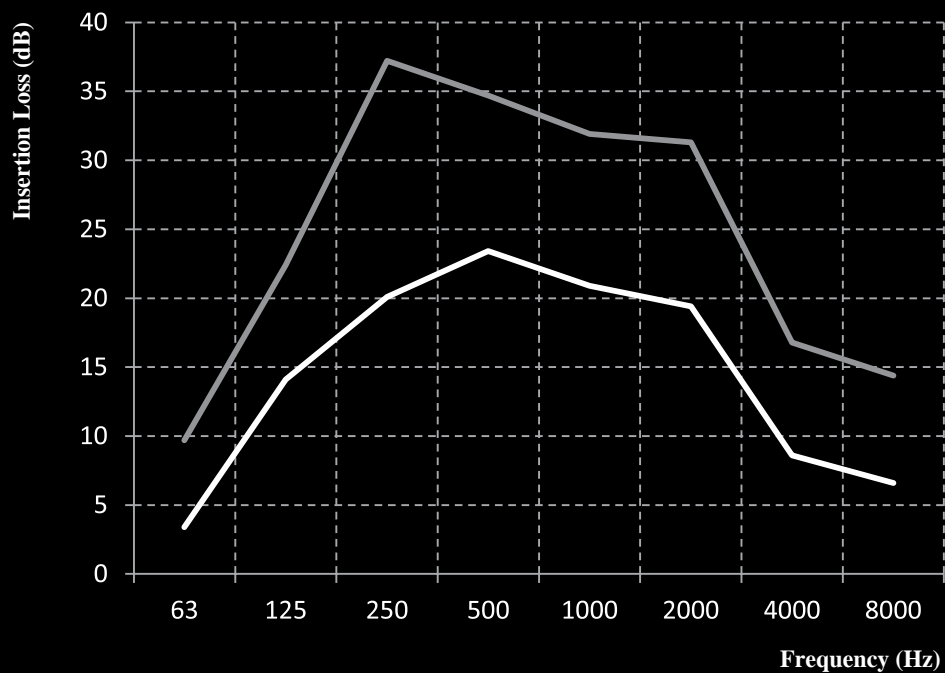


f	63	125	250	500	1000	2000	4000	8000
0,6m	13,3	27,6	39,9	32,9	28,1	27,2	19,1	15,3
1,2m	22,4	42	46,6	43,7	38,2	38,8	34,2	26,4

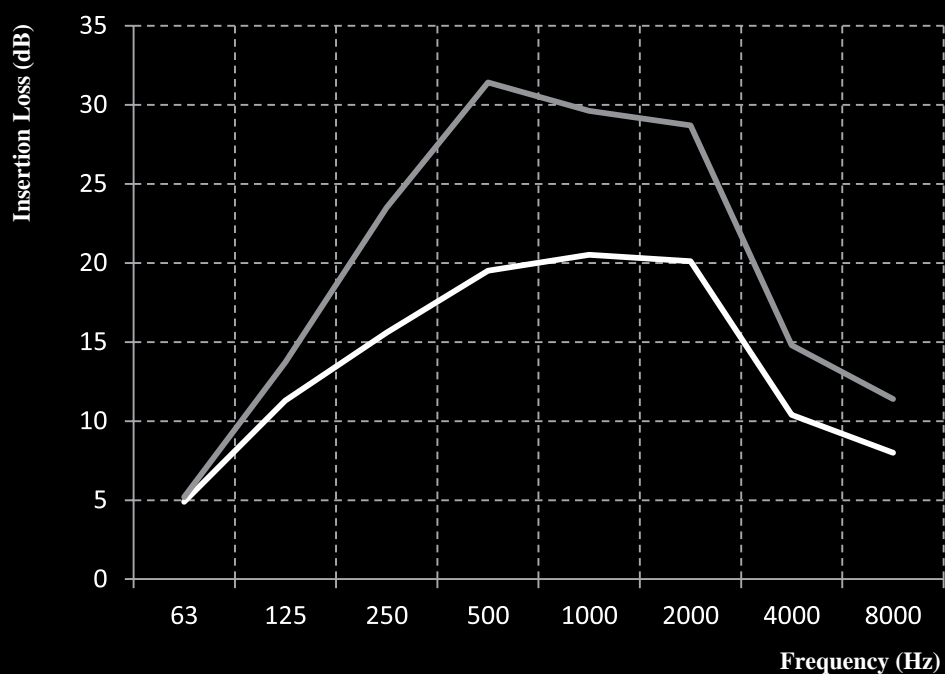
Ø102mm



f	63	125	250	500	1000	2000	4000	8000
0,6m	2,9	17,8	22,7	26,4	24,9	22,9	11,1	10,3
1,2m	15,6	31,8	41,4	40,4	35,6	37,4	25,8	19,3

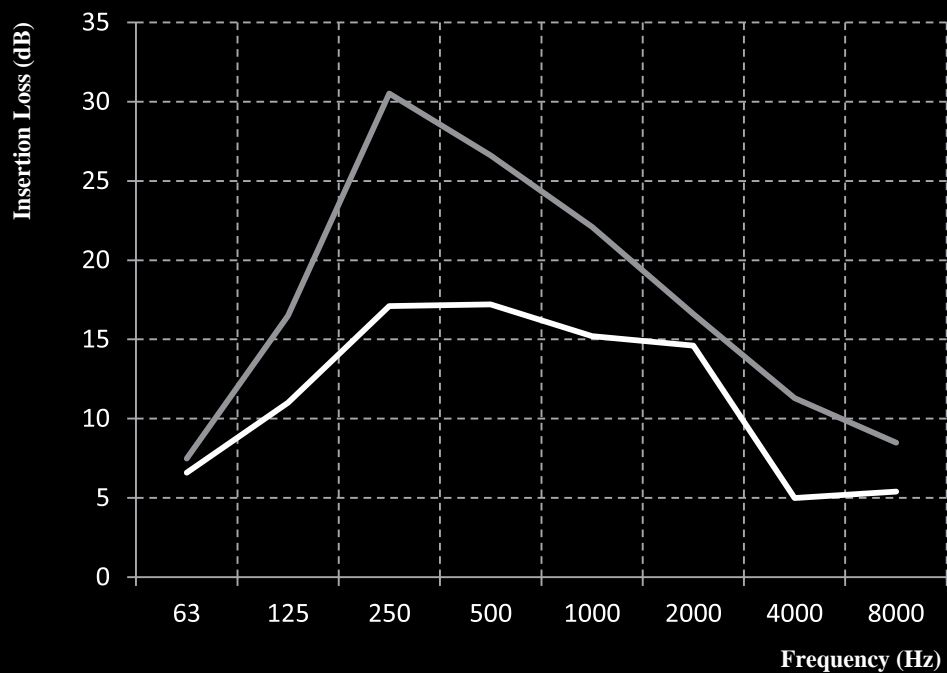


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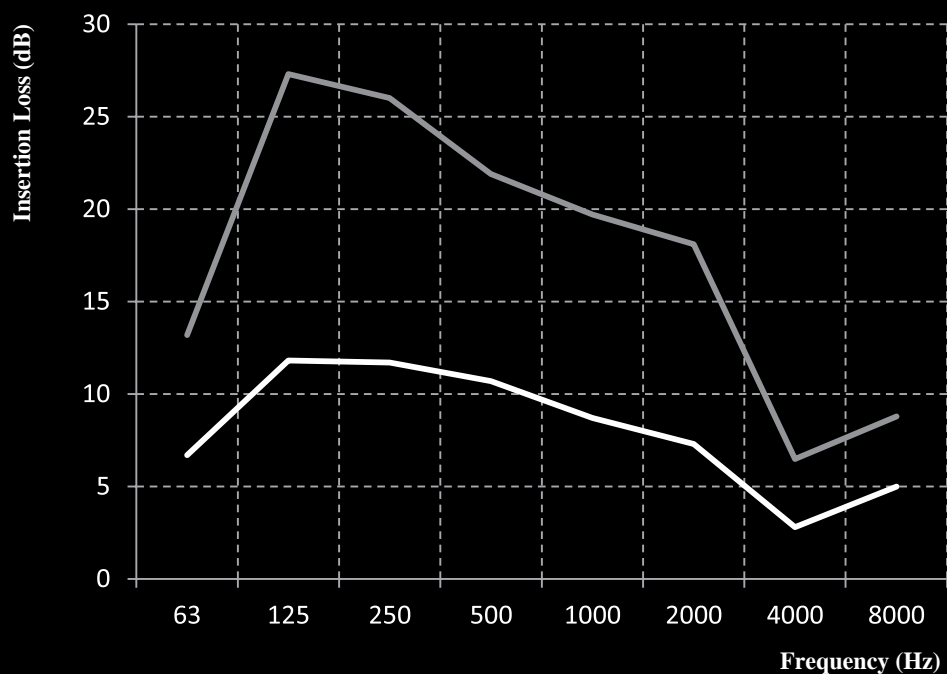
Ø160mm

Ø203mm



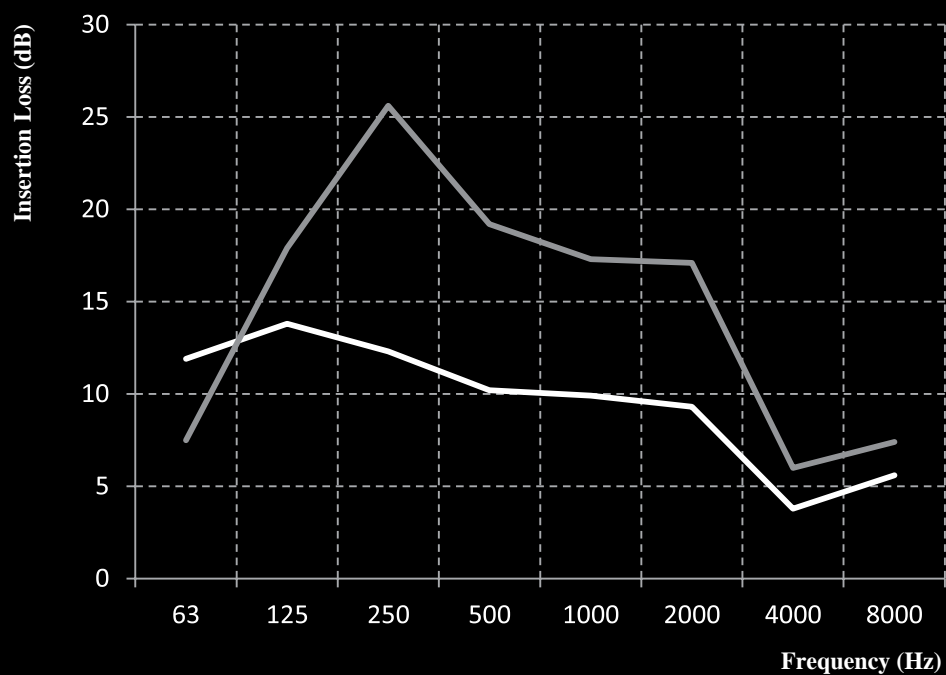
f	63	125	250	500	1000	2000	4000	8000
0,6m	6,6	11	17,1	17,2	15,2	14,6	5	5,4
1,2m	7,5	16,5	30,5	26,6	22,1	16,6	11,3	8,5

Ø254mm



f	63	125	250	500	1000	2000	4000	8000
0,6m	6,7	11,8	11,7	10,7	8,7	7,3	2,8	5,0
1,2m	13,2	27,3	26	21,9	19,7	18,1	6,5	8,8

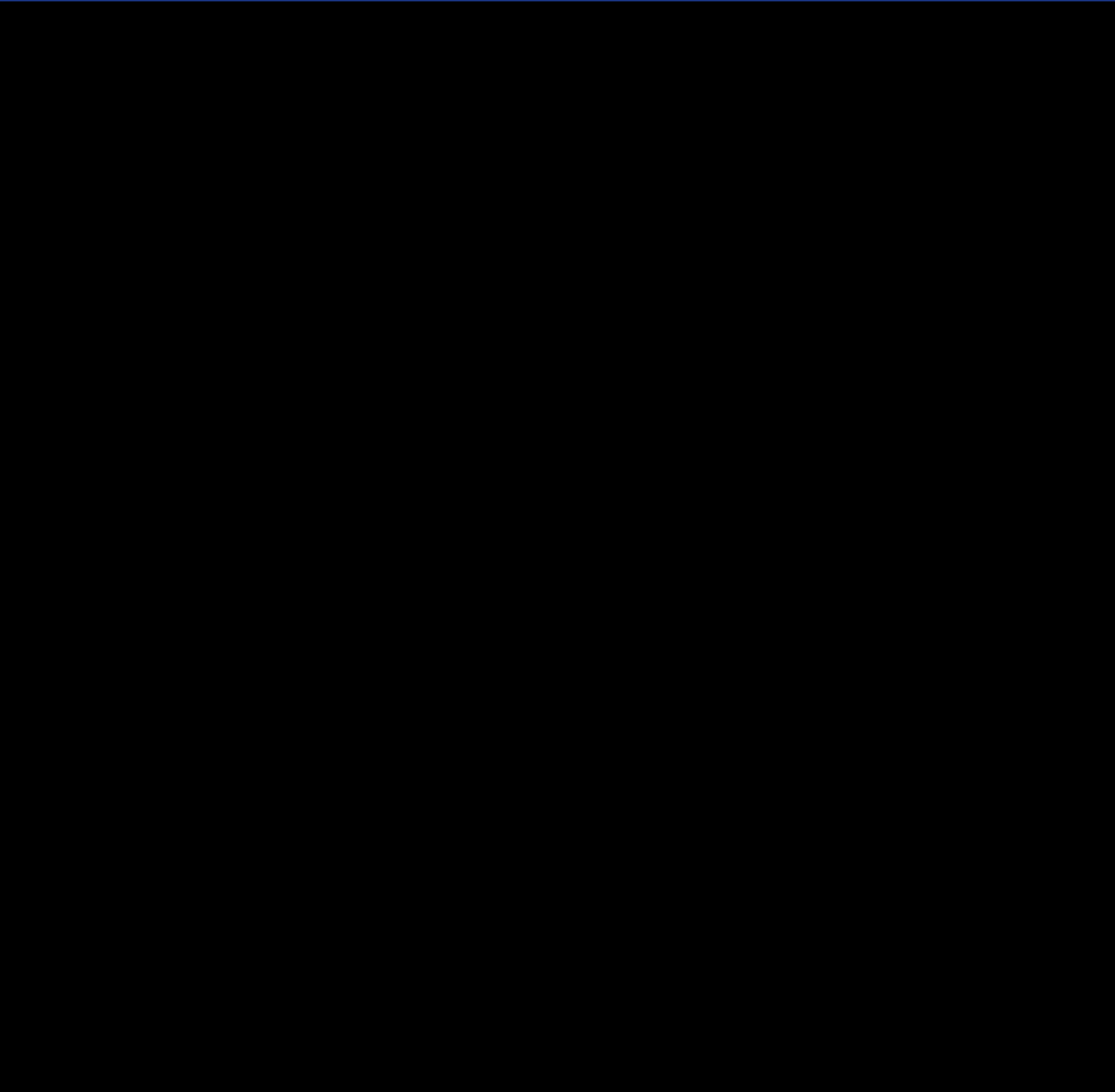
Ø315mm



f	63	125	250	500	1000	2000	4000	8000
0,6m	11,9	13,8	12,3	10,2	9,9	9,3	3,8	5,6
1,2m	7,5	17,9	25,6	19,2	17,3	17,1	6,0	7,4

SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
ALU FORTE SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
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ALU FORTE SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC

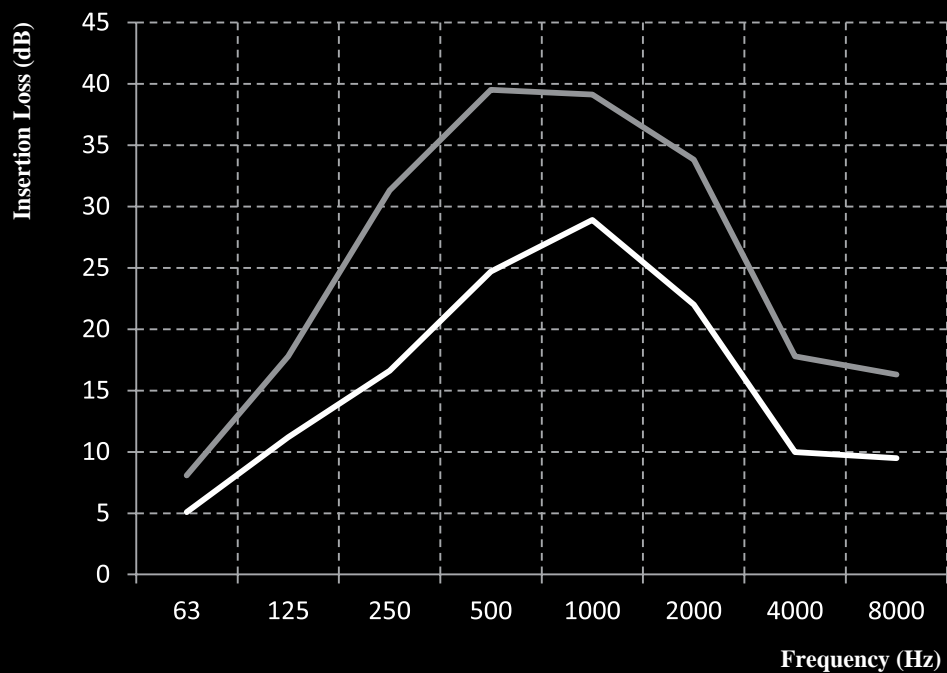
SOUNDROPAFS.P (50 mm Insulation)



NIC SEMIAFS SILENCERAFS
AFS PHONIC SEMIAFS SILENC
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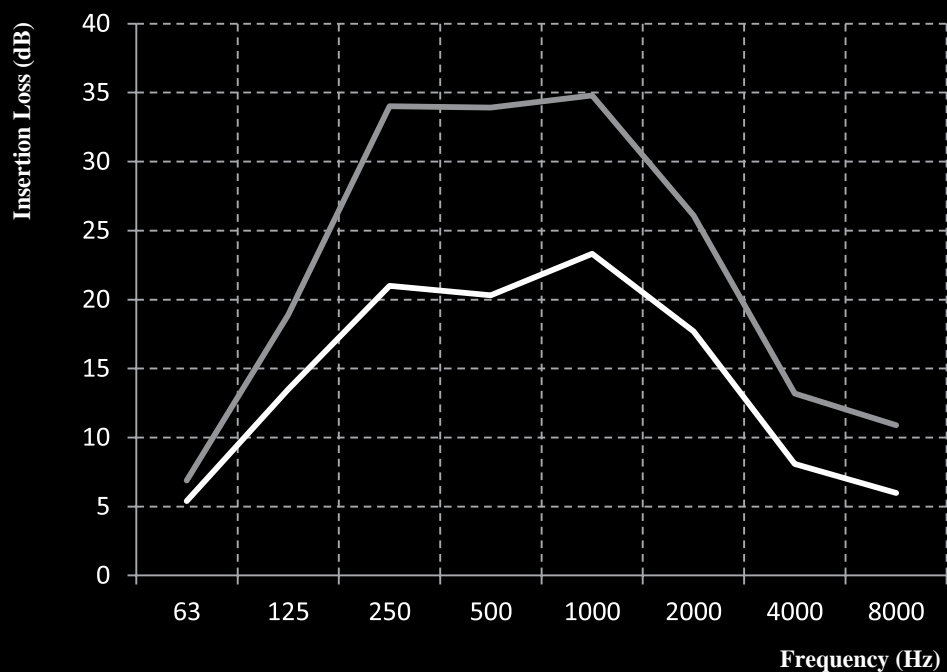


Ø127mm



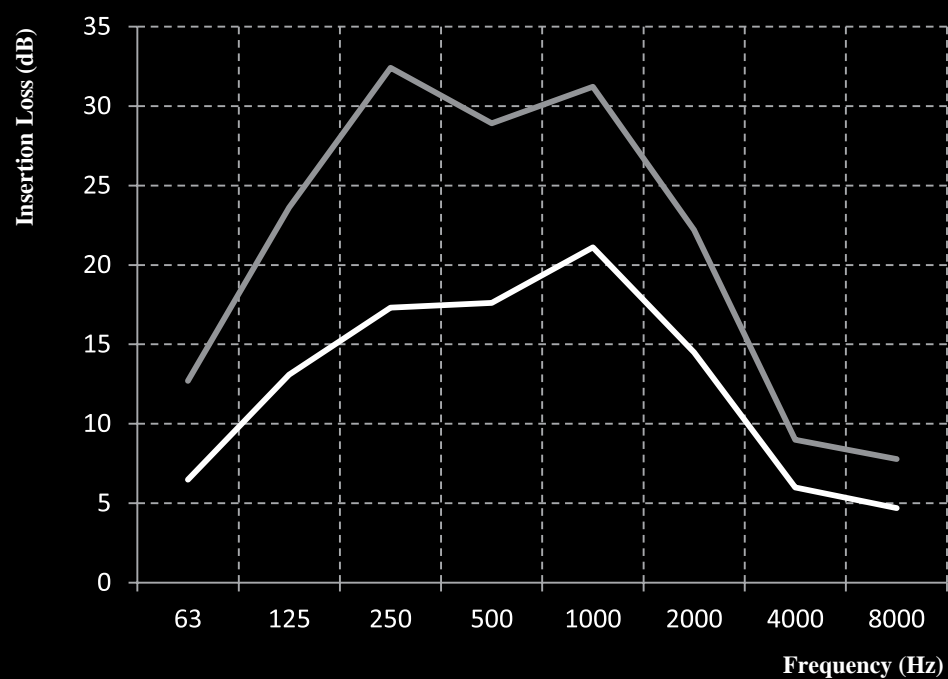
f	63	125	250	500	1000	2000	4000	8000
0,6m	5,1	11,2	16,6	24,7	28,9	22,0	10,0	9,5
1,2m	8,1	17,8	31,3	39,5	39,1	33,8	17,8	16,3

Ø160mm



f	63	125	250	500	1000	2000	4000	8000
0,6m	5,4	13,5	21,0	20,3	23,3	17,7	8,1	6,0
1,2m	6,9	18,9	34,0	33,9	34,8	26,1	13,2	10,9

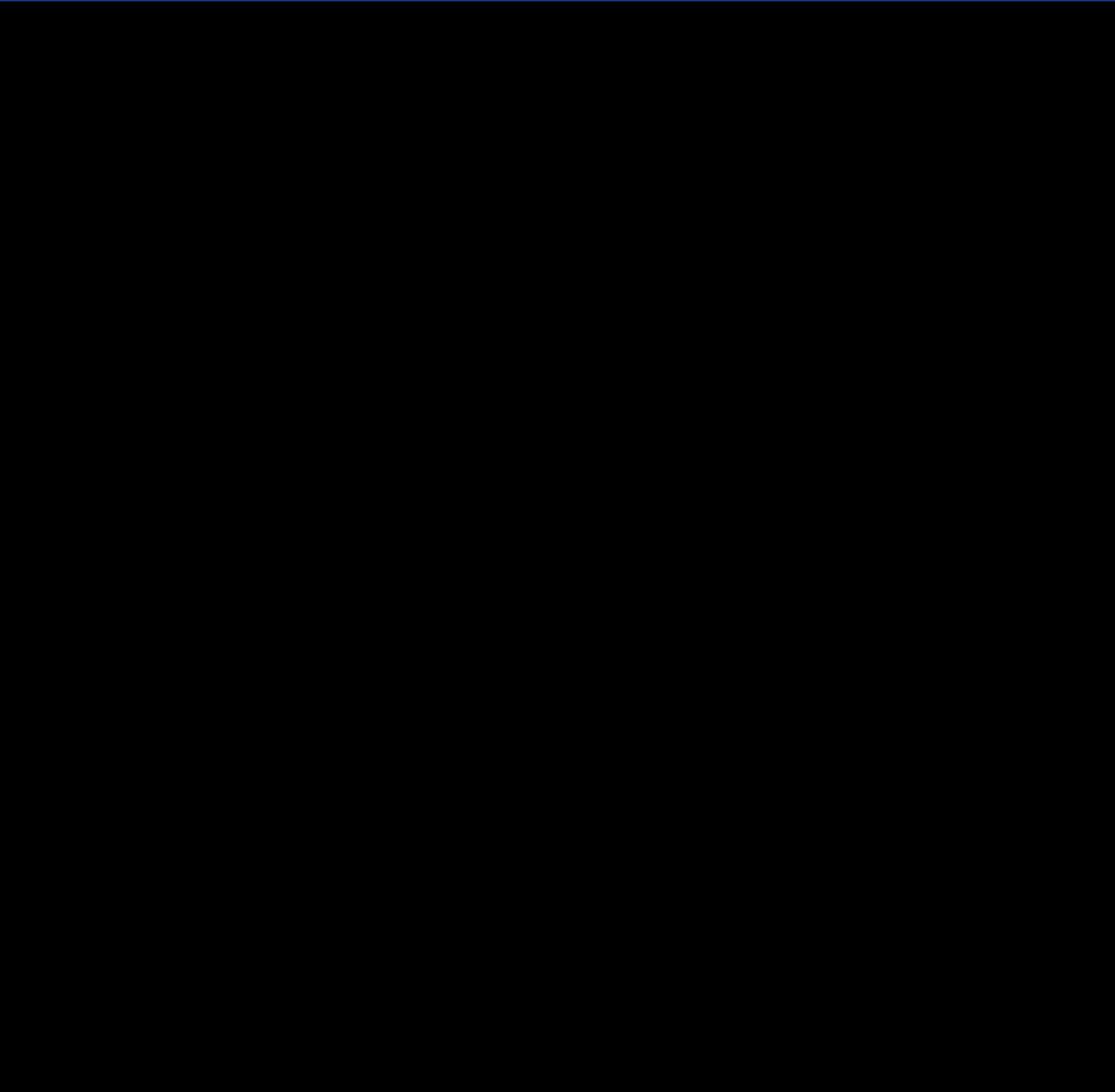
Ø203mm



f	63	125	250	500	1000	2000	4000	8000
0,6m	6,5	13,1	17,3	17,6	21,1	14,5	6,0	4,7
1,2m	12,7	23,6	32,4	28,9	31,2	22,2	9,0	7,8

SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
ALU FORTE SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
ALU FORTE SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC

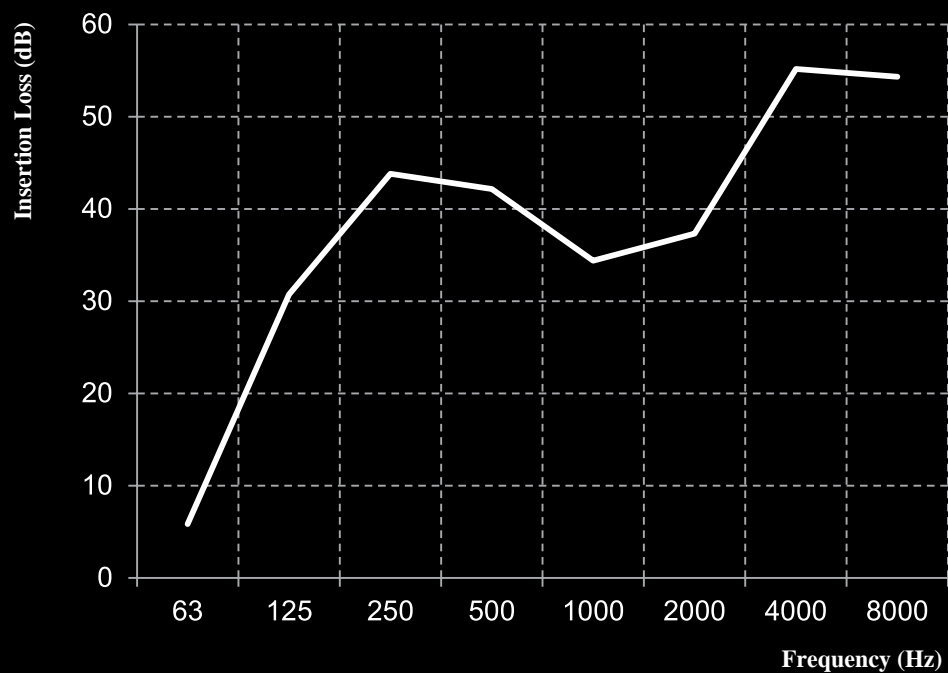
SOUNDROPAFS-NW



PHONIC SEMIAFS SILENCERAFS
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PHONIC SEMIAFS SILENCERAFS
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C SEMIAFS SILENCERAFS SO
C SEMIAFS PHONIC SEMIAFS

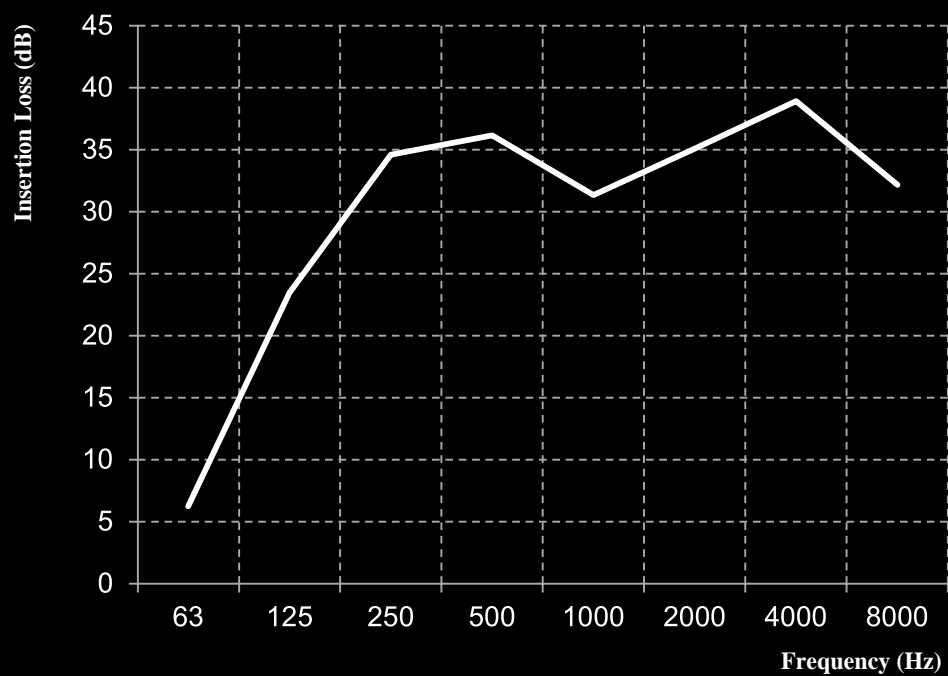


Ø82mm

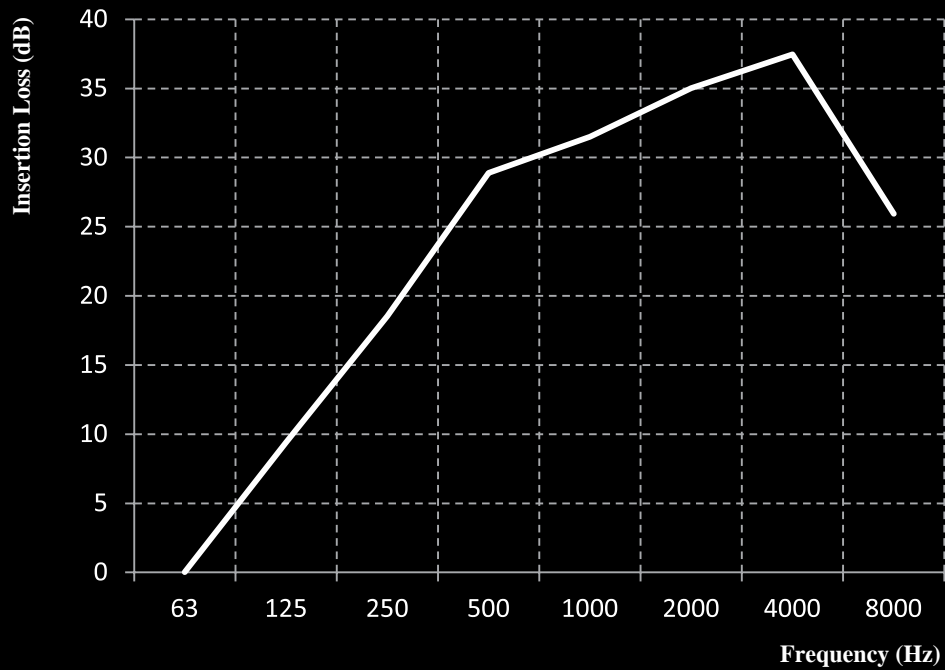


f	63	125	250	500	1000	2000	4000	8000
1,2m	5,9	30,7	43,8	42,2	34,4	37,3	55,2	54,3

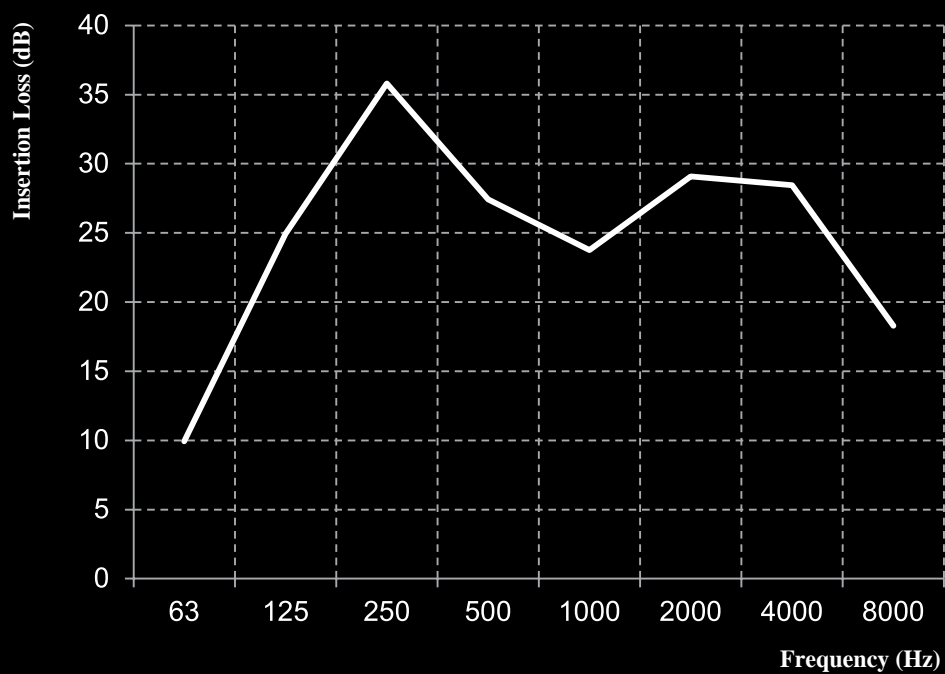
Ø102mm



f	63	125	250	500	1000	2000	4000	8000
1,2m	6,3	23,5	34,6	36,2	31,3	35,1	38,9	32,2



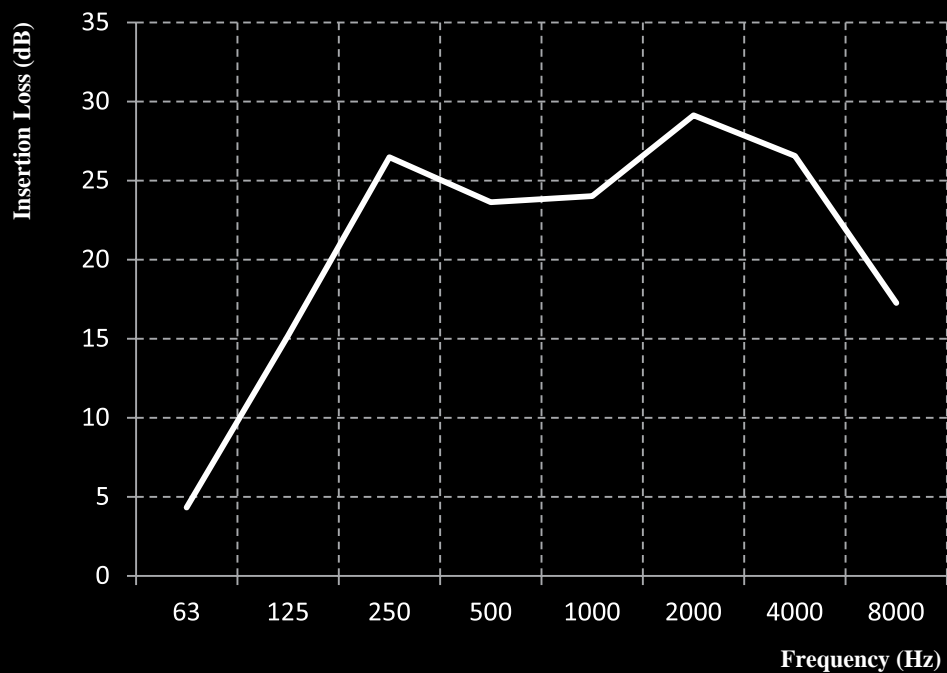
Ø127mm



Ø152mm

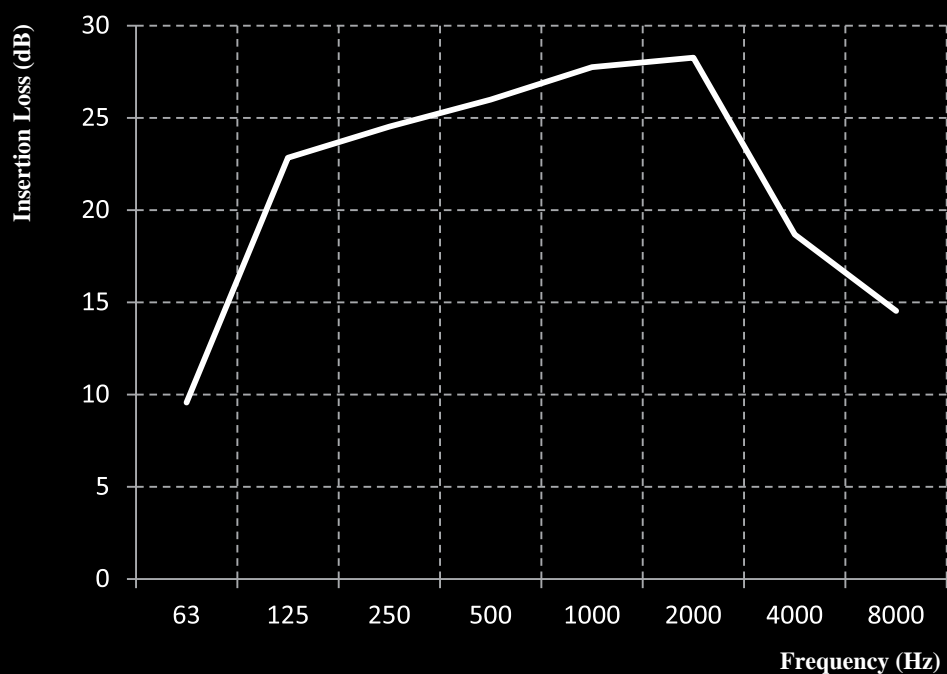
f	63	125	250	500	1000	2000	4000	8000
1,2m	9,9	24,9	35,8	27,4	23,8	29,1	28,5	18,3

Ø160mm

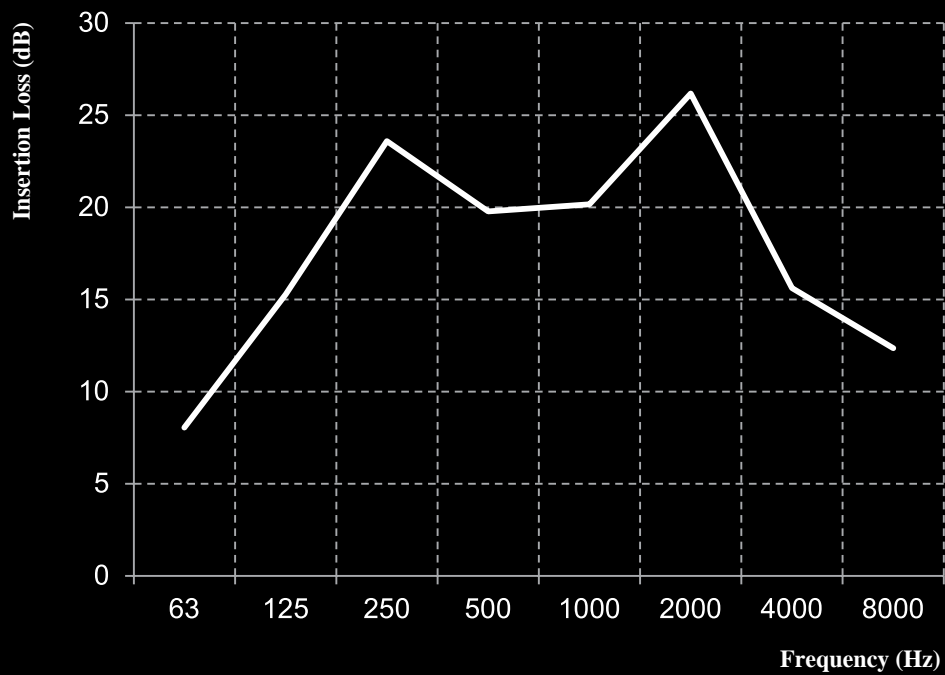


f	63	125	250	500	1000	2000	4000	8000
1,2m	4,3	15,2	26,5	23,6	24,0	29,1	26,6	17,3

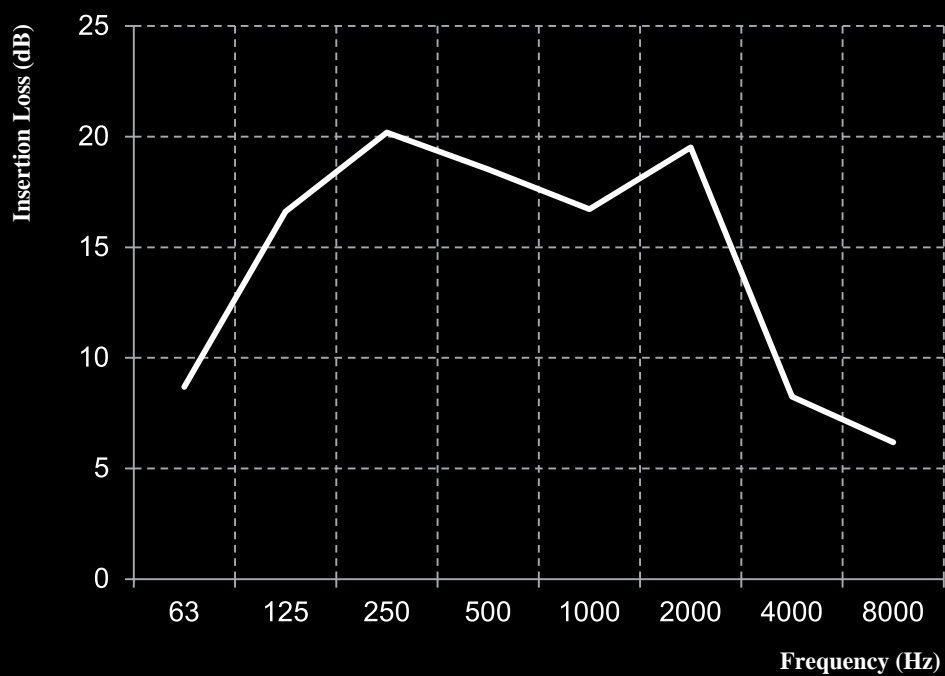
Ø180mm



f	63	125	250	500	1000	2000	4000	8000
1,2m	9,6	22,8	24,5	26,0	27,7	28,3	18,7	14,5

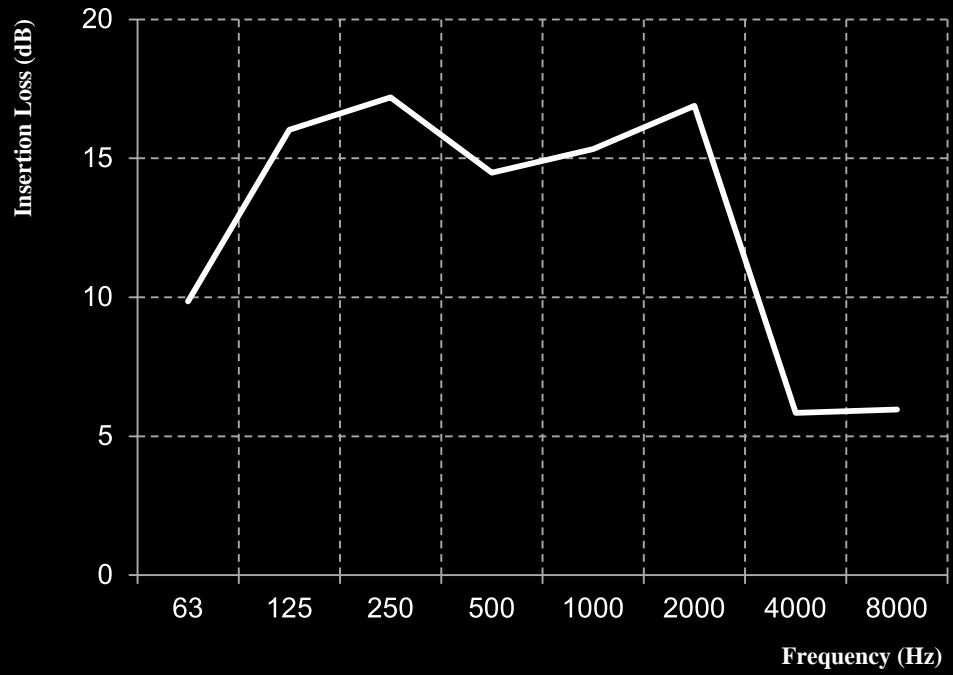


Ø203mm



Ø254mm

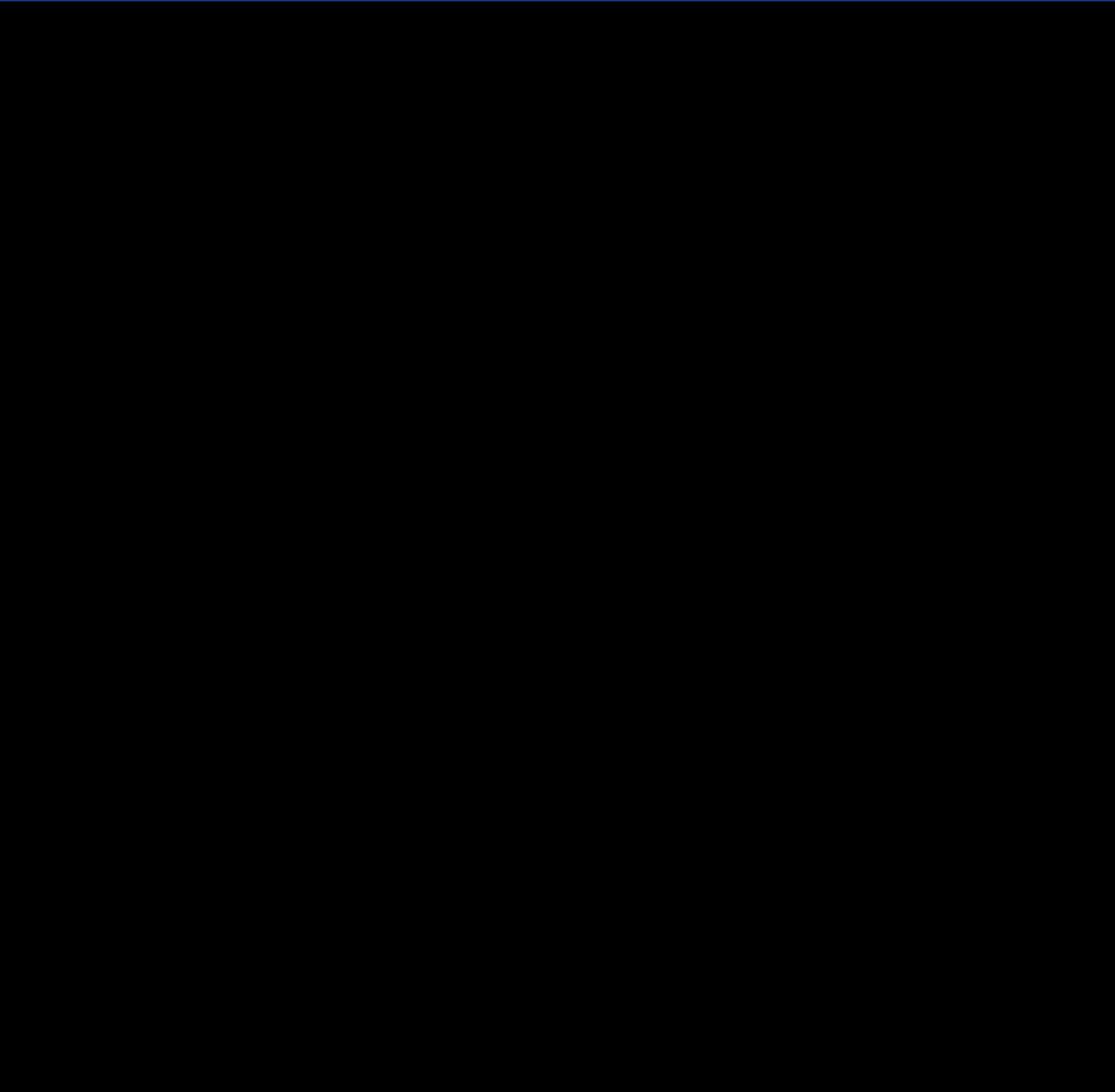
Ø315mm



f	63	125	250	500	1000	2000	4000	8000
1,2m	9,9	16,0	17,2	14,5	15,3	16,9	5,8	6,0

SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
ALU FORTE SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
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SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
ALU FORTE SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC

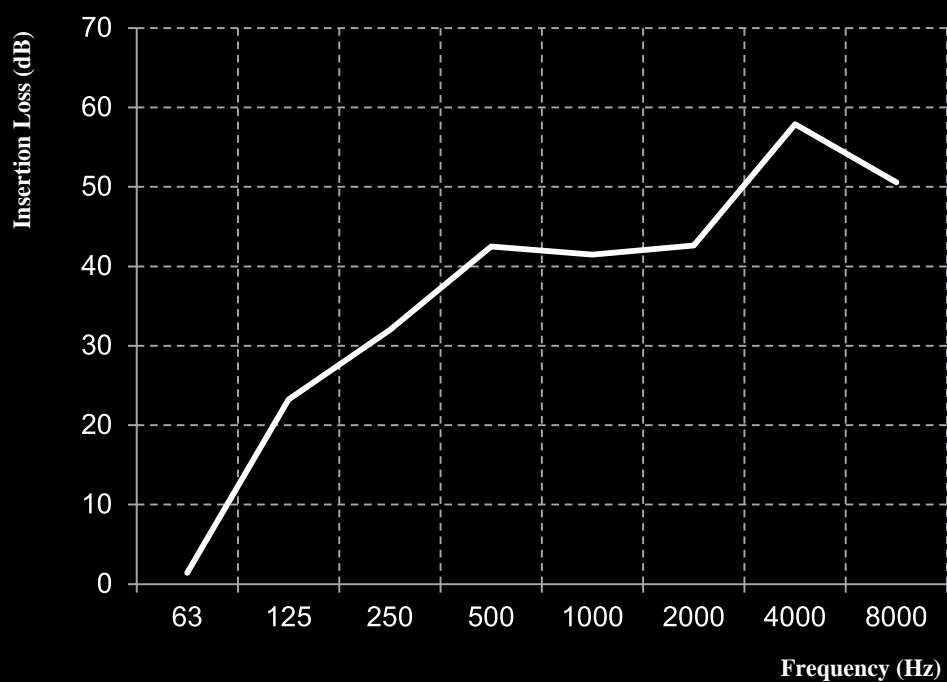
SOUNDROPAFS-NW (50 mm Insulation)



PHONIC SEMIAFS SILENCERAFS
AFS PHONIC SEMIAFS SILENCERAFS
C SEMIAFS SILENCERAFS SILENCERAFS
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PHONIC SEMIAFS SILENCERAFS SILENCERAFS
AFS PHONIC SEMIAFS SILENCERAFS SILENCERAFS
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C SEMIAFS PHONIC SEMIAFS SILENCERAFS

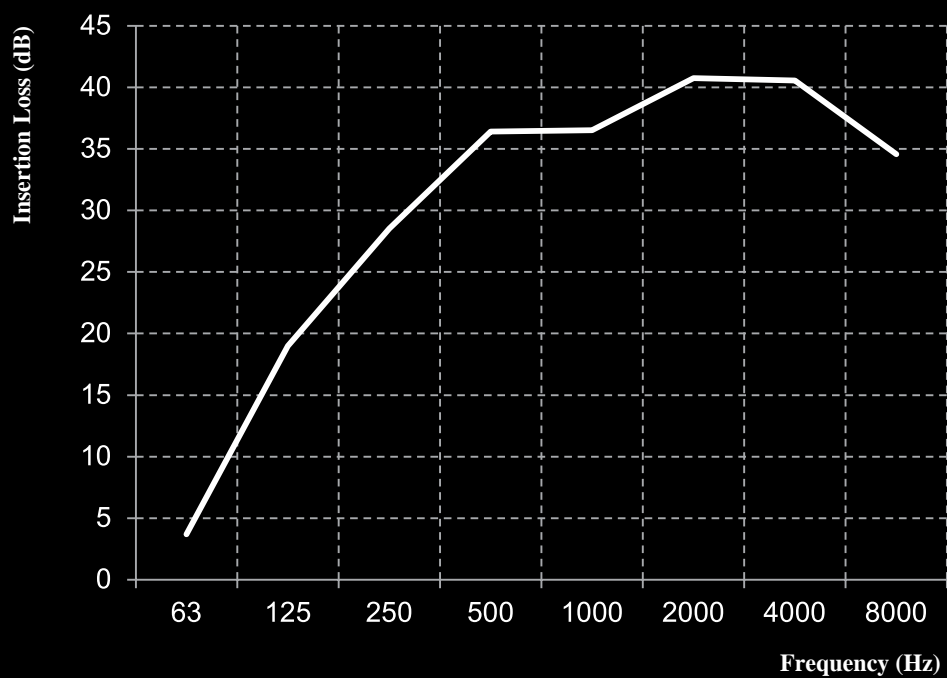


Ø82mm

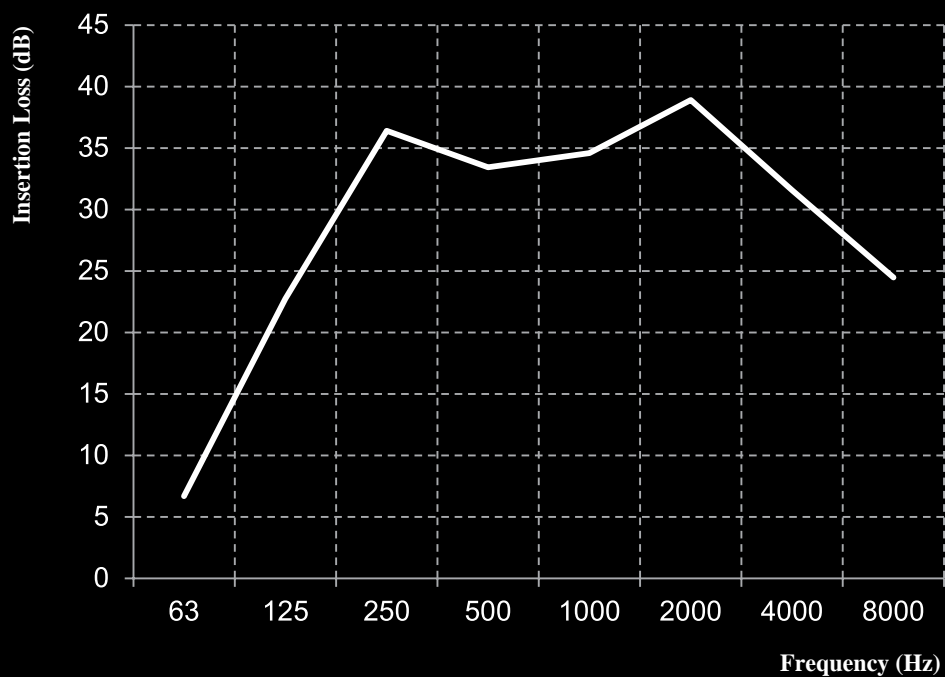


f	63	125	250	500	1000	2000	4000	8000
1,2m	1,4	23,2	32,0	42,5	41,5	42,6	57,9	50,6

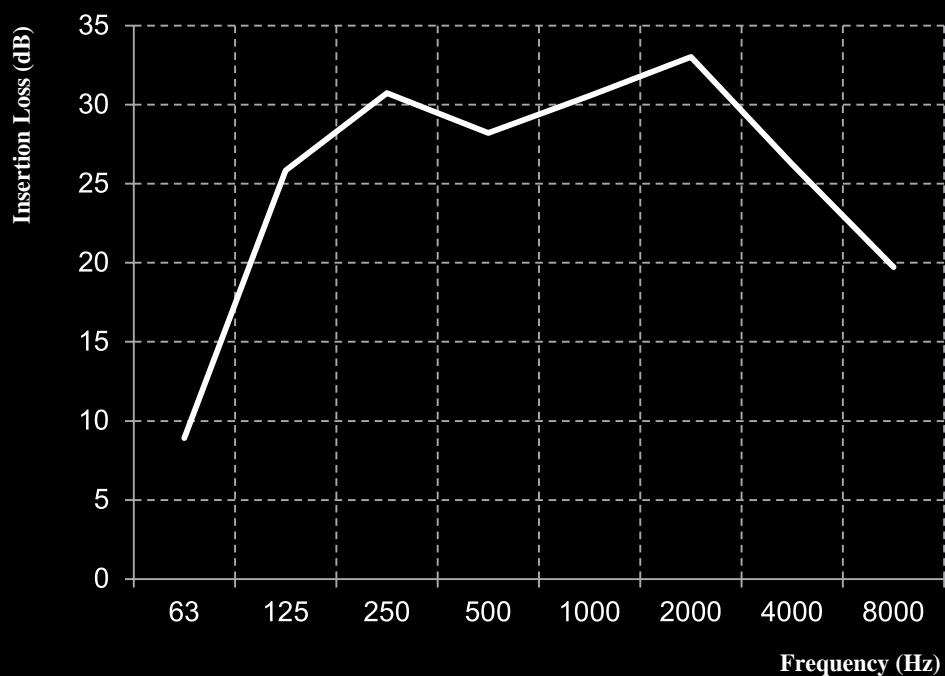
Ø102mm



f	63	125	250	500	1000	2000	4000	8000
1,2m	3,7	19,0	28,5	36,4	36,5	40,7	40,6	34,6

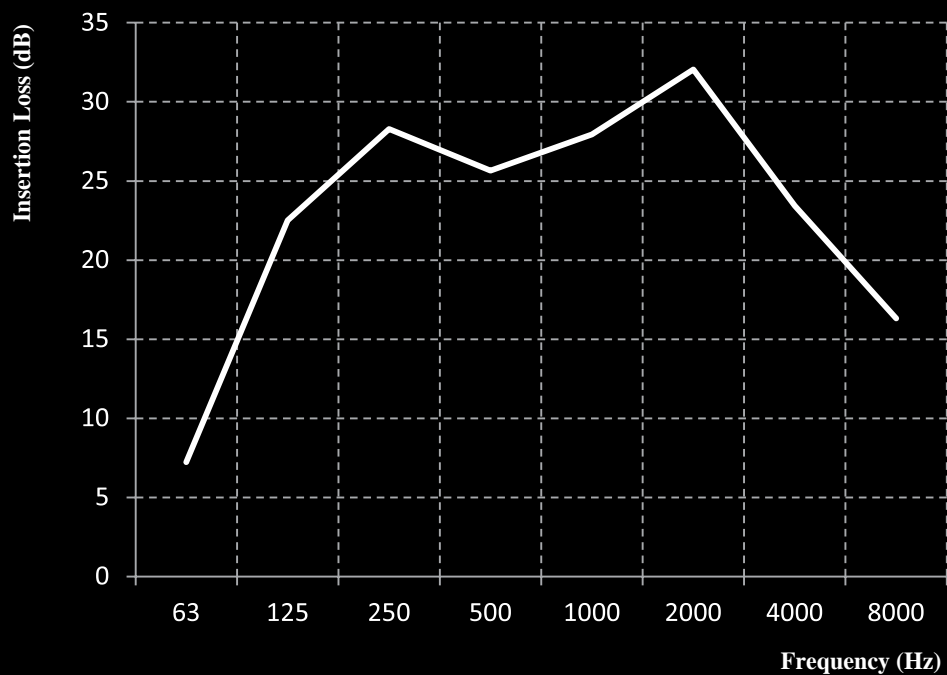


Ø127mm



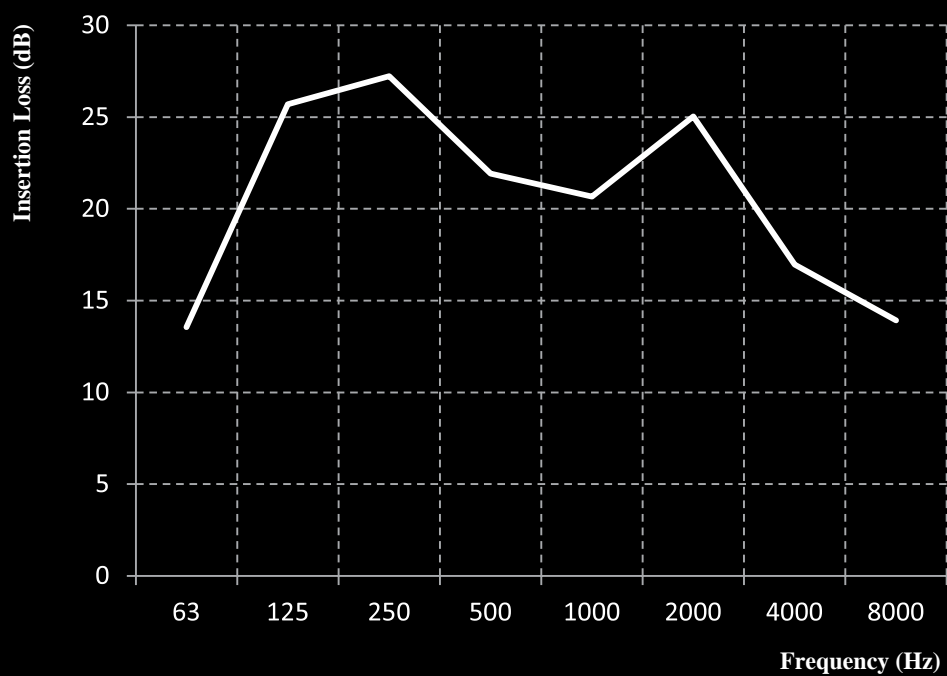
Ø152mm

Ø160mm

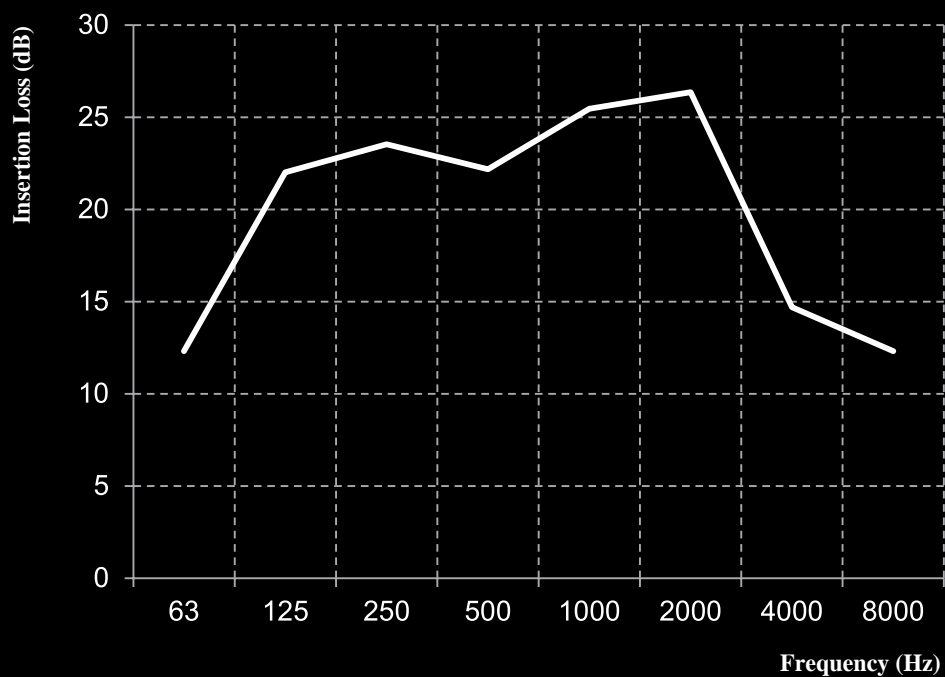


f	63	125	250	500	1000	2000	4000	8000
1,2m	7,2	22,5	28,3	25,6	27,9	32,0	23,4	16,3

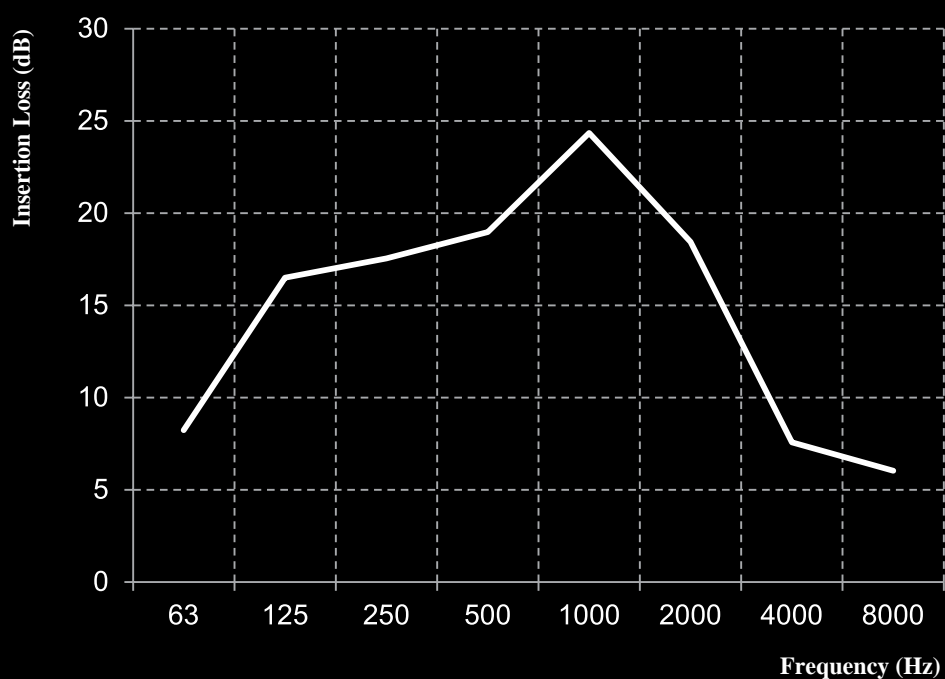
Ø180mm



f	63	125	250	500	1000	2000	4000	8000
1,2m	13,6	25,7	27,2	21,9	20,7	25,0	17,0	13,9

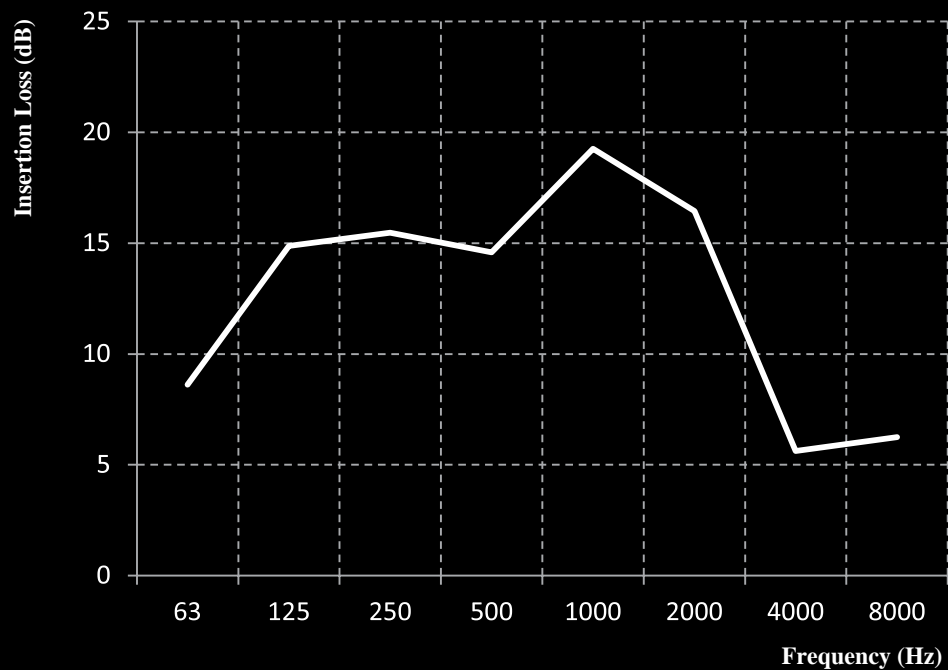


Ø203mm



Ø254mm

Ø315mm



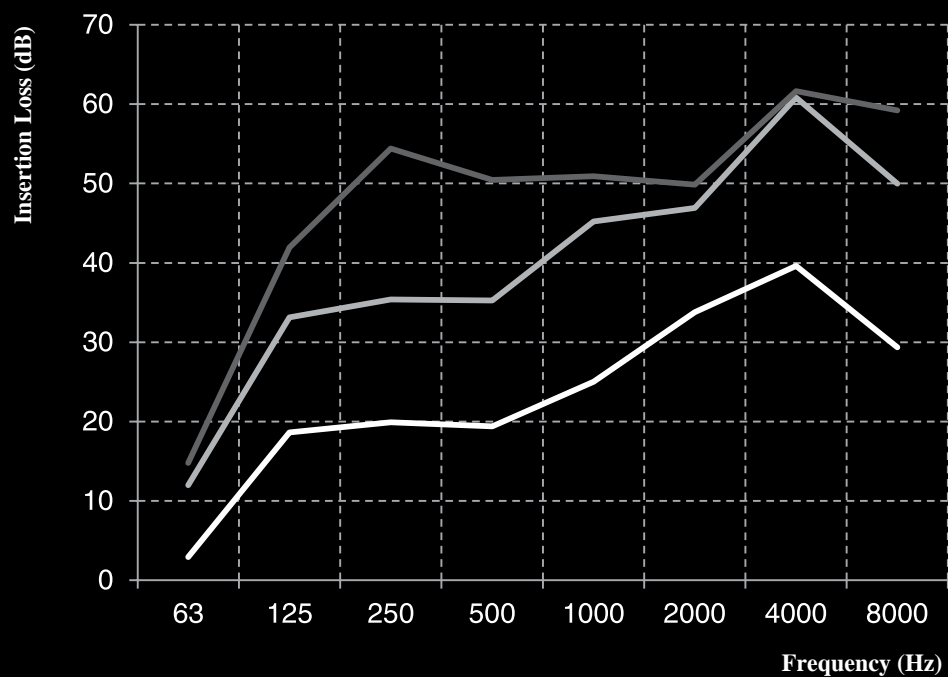
f	63	125	250	500	1000	2000	4000	8000
1,2m	8,6	14,9	15,5	14,6	19,3	16,4	5,6	6,3

SONOAFS-NW.PVC

PHONIC SEMIAFS SILENCERAFS
AFS PHONIC SEMIAFS SILENCERAFS
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C SEMIAFS PHONIC SEMIAFS SILENCERAFS

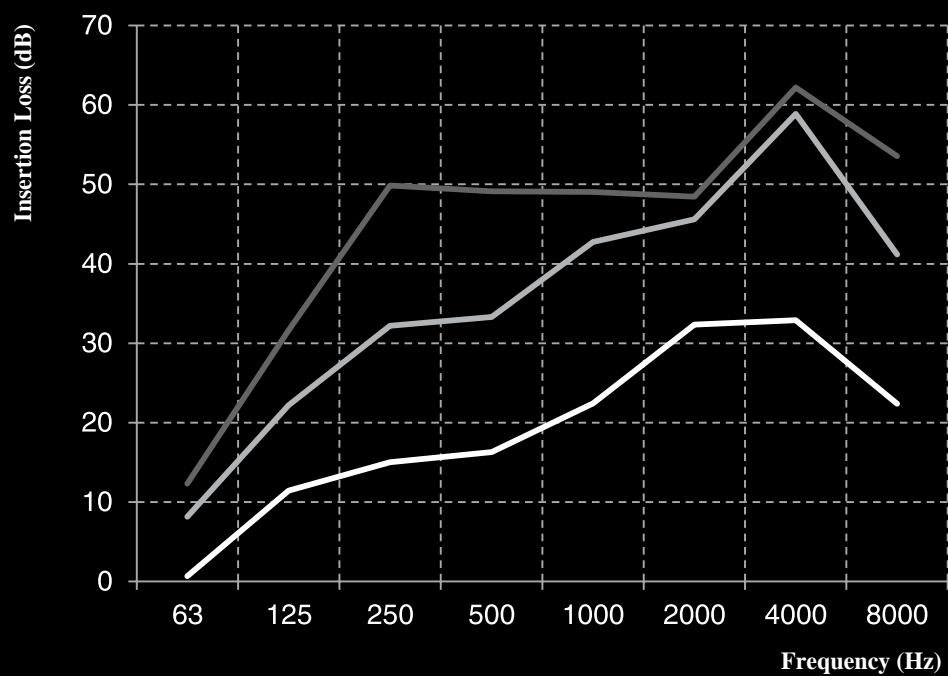


Ø102mm

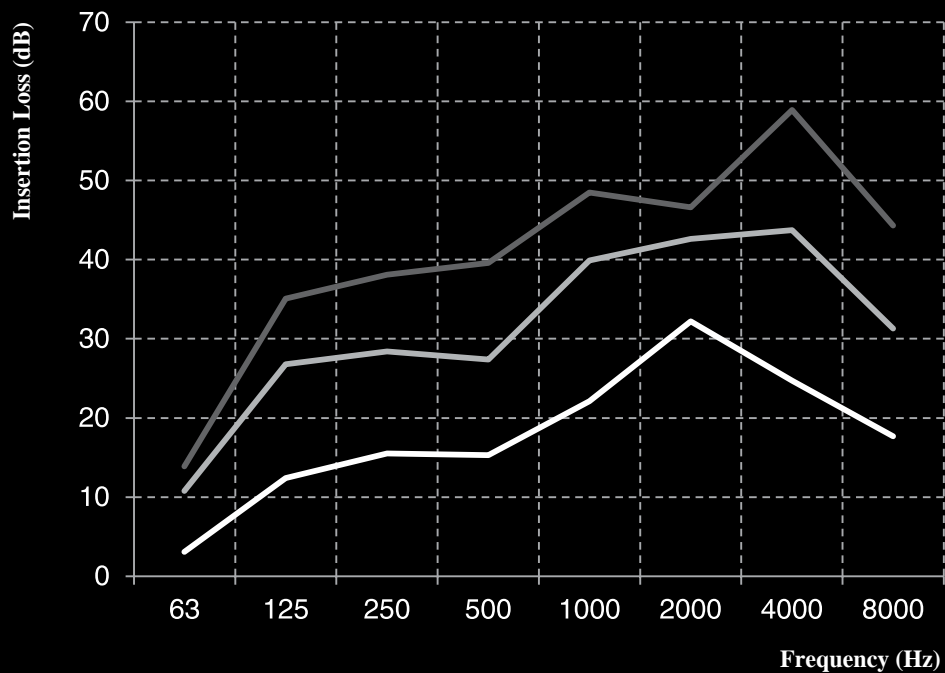


f	63	125	250	500	1000	2000	4000	8000
1m	3,0	18,6	19,9	19,4	25,0	33,8	39,6	29,3
2m	12,0	33,1	35,4	35,3	45,2	46,9	60,8	50,0
3m	14,8	41,9	54,4	50,4	50,9	49,8	61,6	59,2

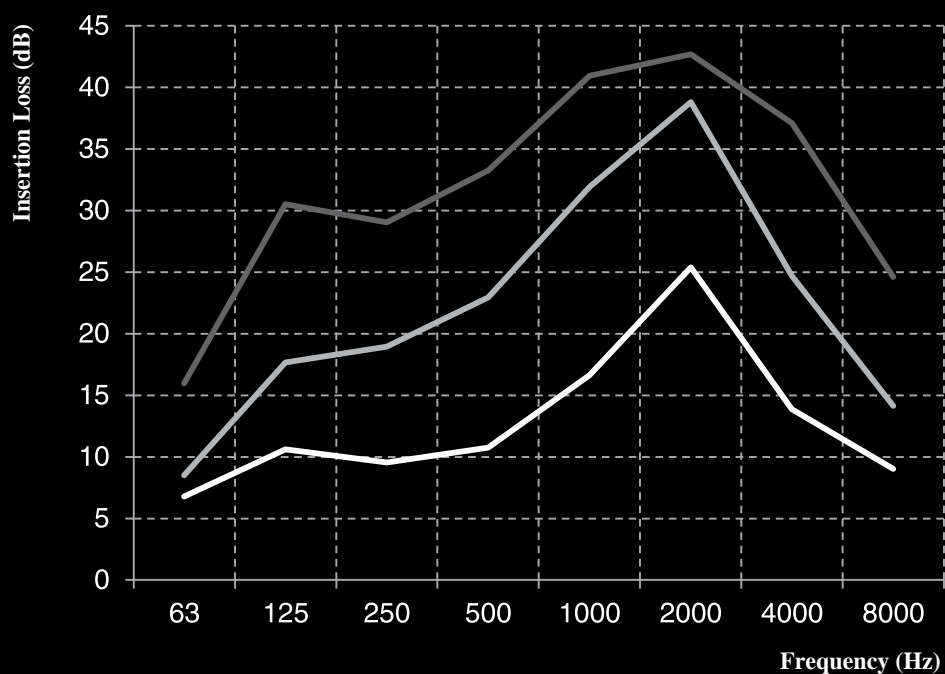
Ø127mm



f	63	125	250	500	1000	2000	4000	8000
1m	0,7	11,4	15,0	16,3	22,4	32,3	32,9	22,4
2m	8,2	22,2	32,2	33,3	42,7	45,6	58,9	41,2
3m	12,3	31,7	49,9	49,1	49,0	48,4	62,2	53,6



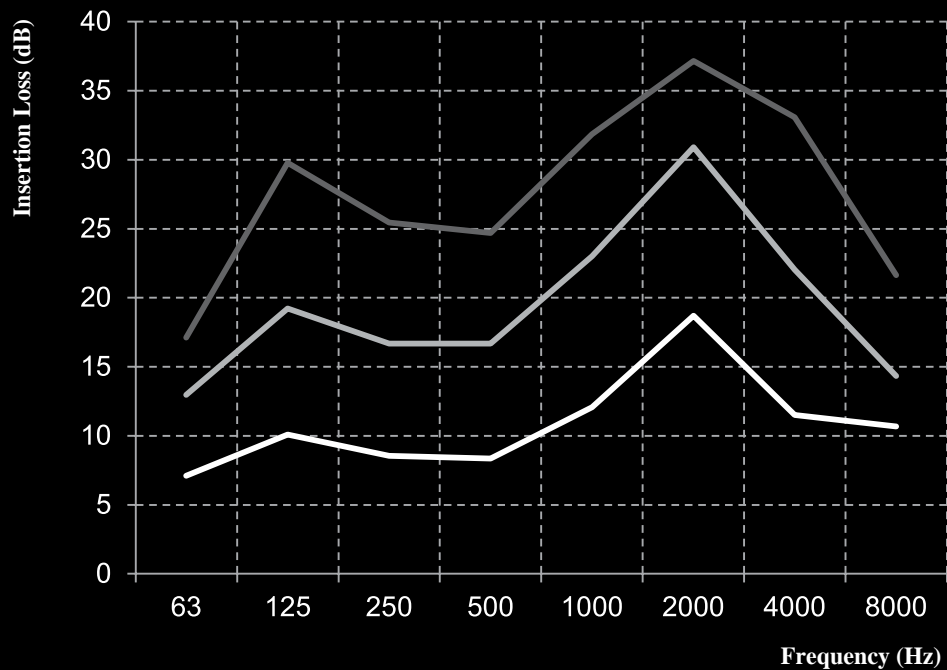
Ø152mm



Ø203mm

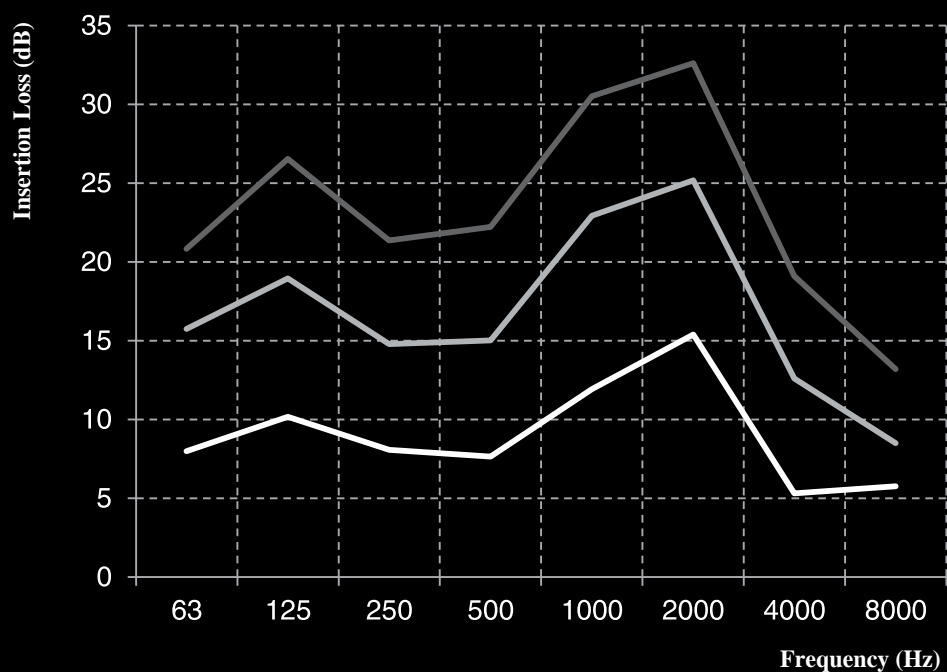
f	63	125	250	500	1000	2000	4000	8000
1m	6,8	10,6	9,6	10,8	16,6	25,4	13,9	9,0
2m	8,5	17,7	18,9	22,9	31,9	38,8	24,7	14,1
3m	16,0	30,5	29,0	33,2	40,9	42,7	37,1	24,6

Ø254mm

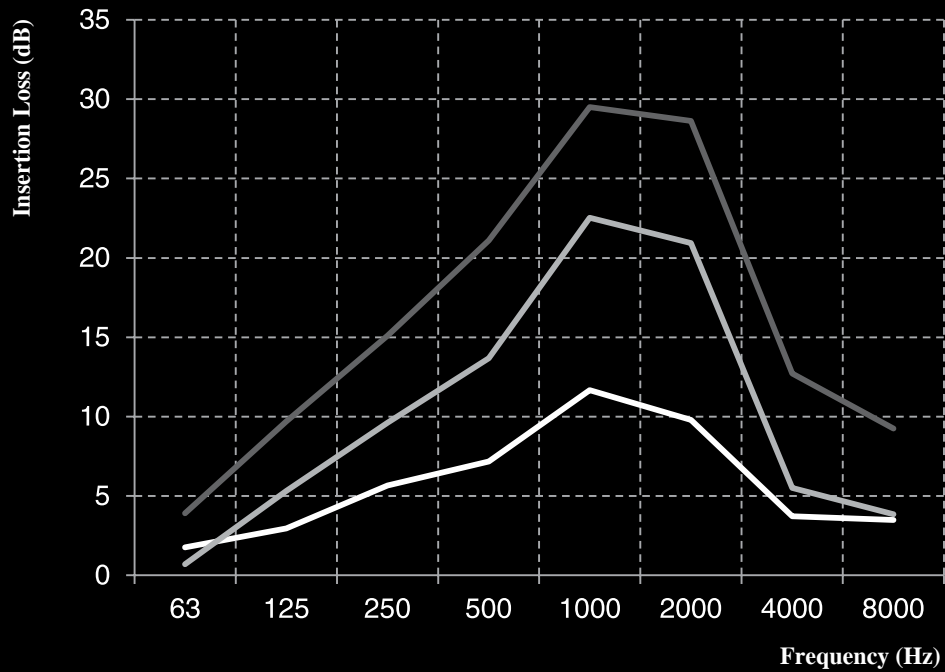


f	63	125	250	500	1000	2000	4000	8000
1m	7,1	10,1	8,6	8,4	12,1	18,7	11,5	10,7
2m	13,0	19,2	16,7	16,7	23,0	30,9	22,0	14,4
3m	17,1	29,8	25,5	24,7	31,9	37,2	33,1	21,6

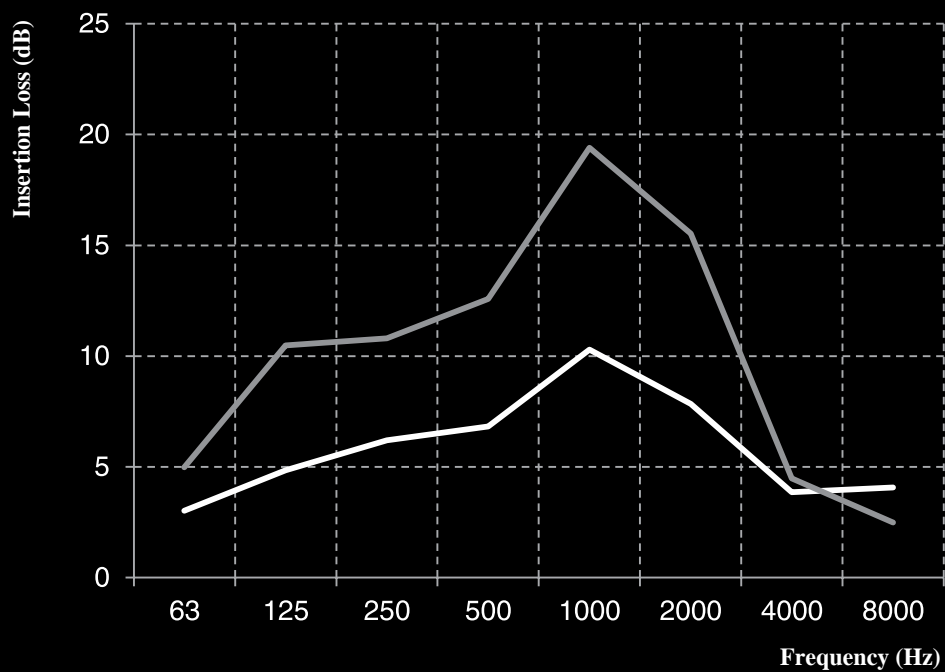
Ø315mm



f	63	125	250	500	1000	2000	4000	8000
1m	8,0	10,2	8,1	7,7	11,9	15,4	5,3	5,8
2m	15,8	19,0	14,8	15,0	22,9	25,2	12,6	8,5
3m	20,8	26,5	21,4	22,2	30,5	32,6	19,1	13,2



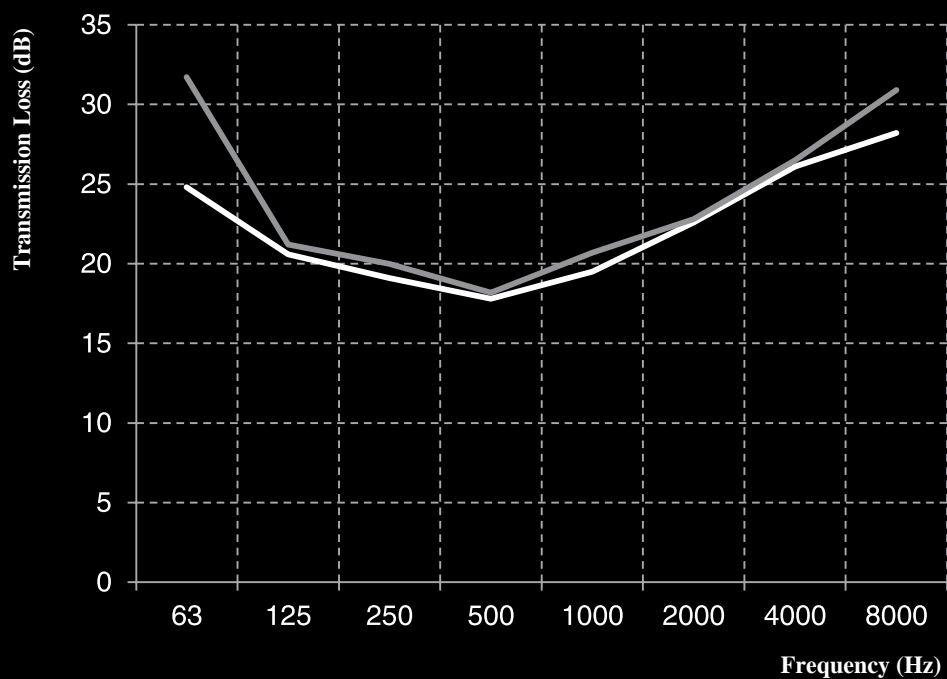
Ø356mm



Ø406mm

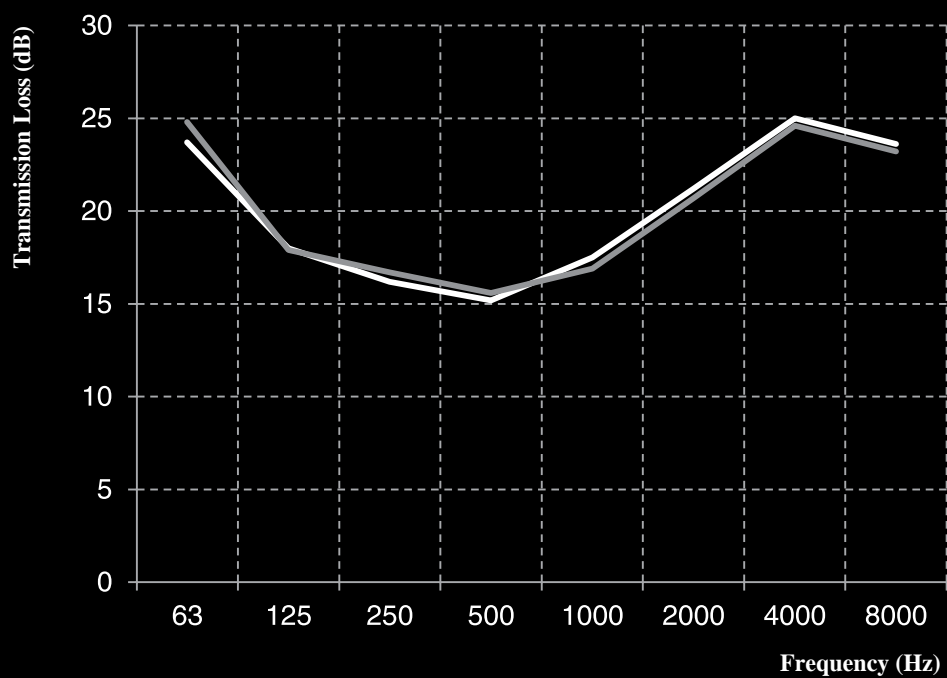
f	63	125	250	500	1000	2000	4000	8000
1m	3,0	4,8	6,2	6,8	10,3	7,8	3,9	4,1
2m	5,0	10,5	10,8	12,6	19,4	15,5	4,5	2,5

Ø127mm

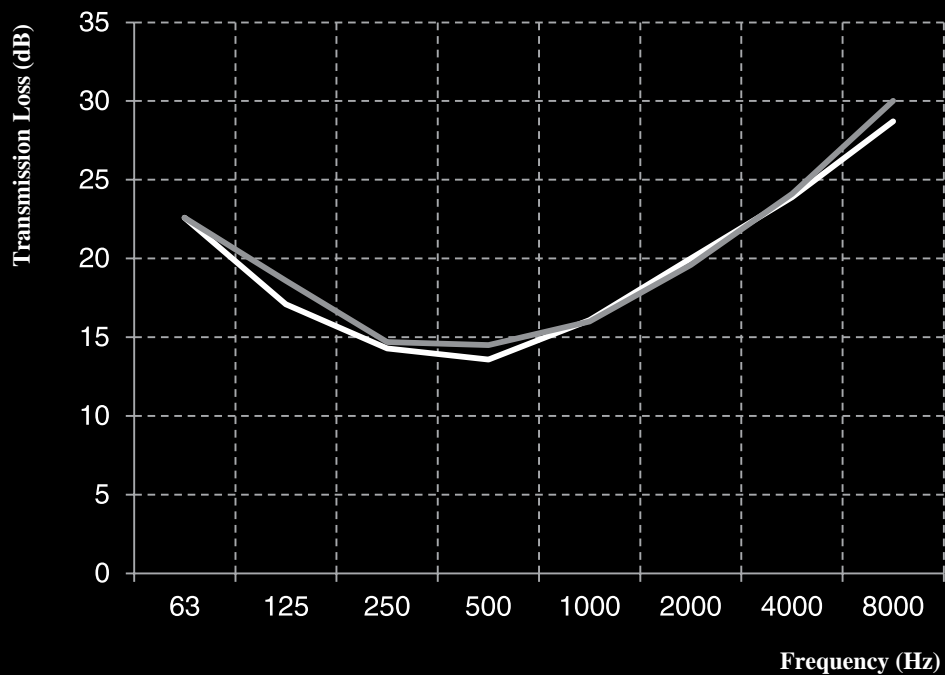


f	63	125	250	500	1000	2000	4000	8000
1m	24,8	20,6	19,1	17,8	19,5	22,6	26,1	28,2
3m	31,7	21,2	20	18,2	20,7	22,8	26,5	30,9

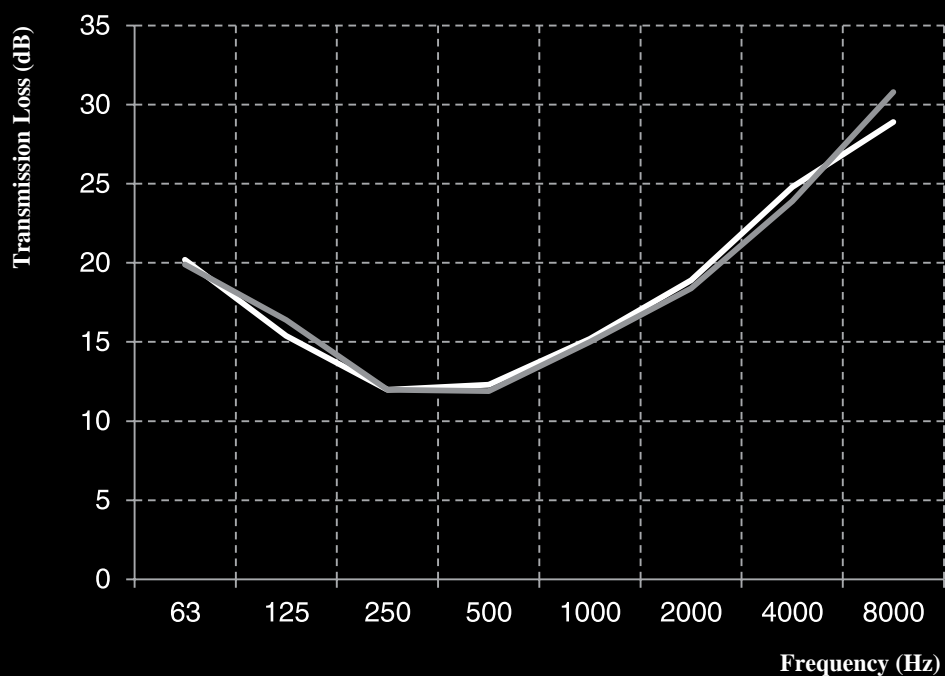
Ø160mm



f	63	125	250	500	1000	2000	4000	8000
1m	23,7	18	16,2	15,2	17,5	21,2	25	23,6
3m	24,8	17,9	16,7	15,6	16,9	20,7	24,6	23,2



Ø203mm



Ø254mm

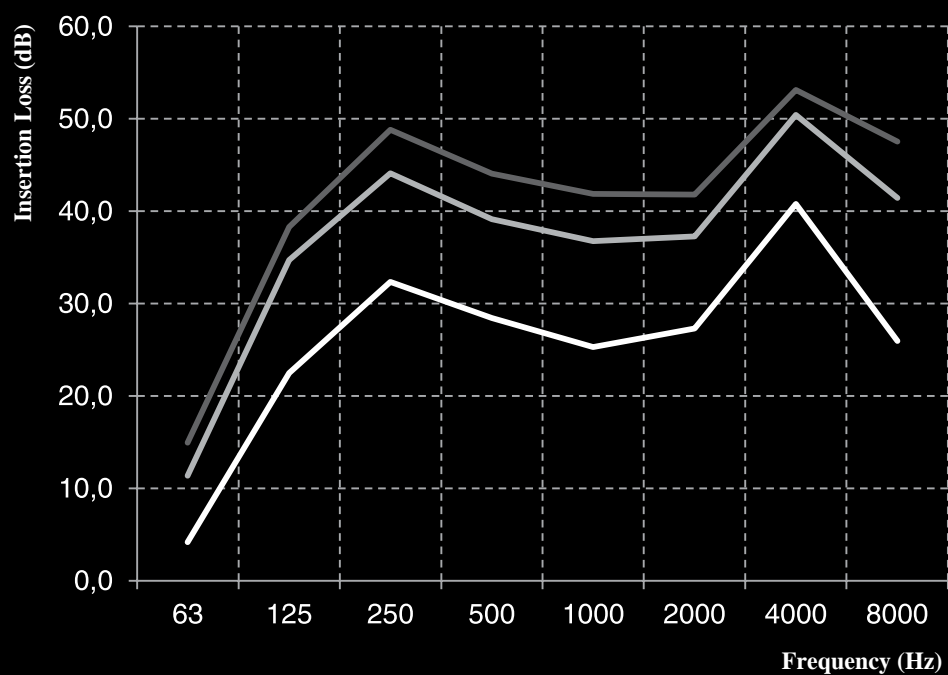
f	63	125	250	500	1000	2000	4000	8000
1m	20,2	15,4	12	12,3	15,2	18,9	24,8	28,9
3m	19,9	16,4	12	11,9	15	18,4	23,9	30,8

SONOAFS-NW.P

PHONIC SEMIAFS SILENCERAFS
AFS PHONIC SEMIAFS SILENCERAFS
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C SEMIAFS PHONIC SEMIAFS SILENCERAFS

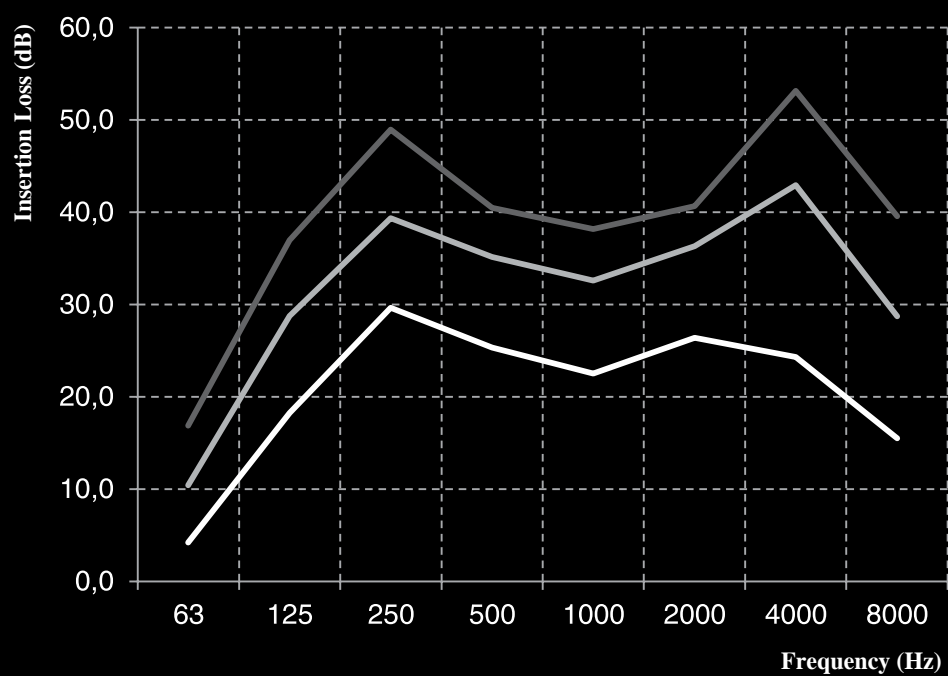


Ø127mm

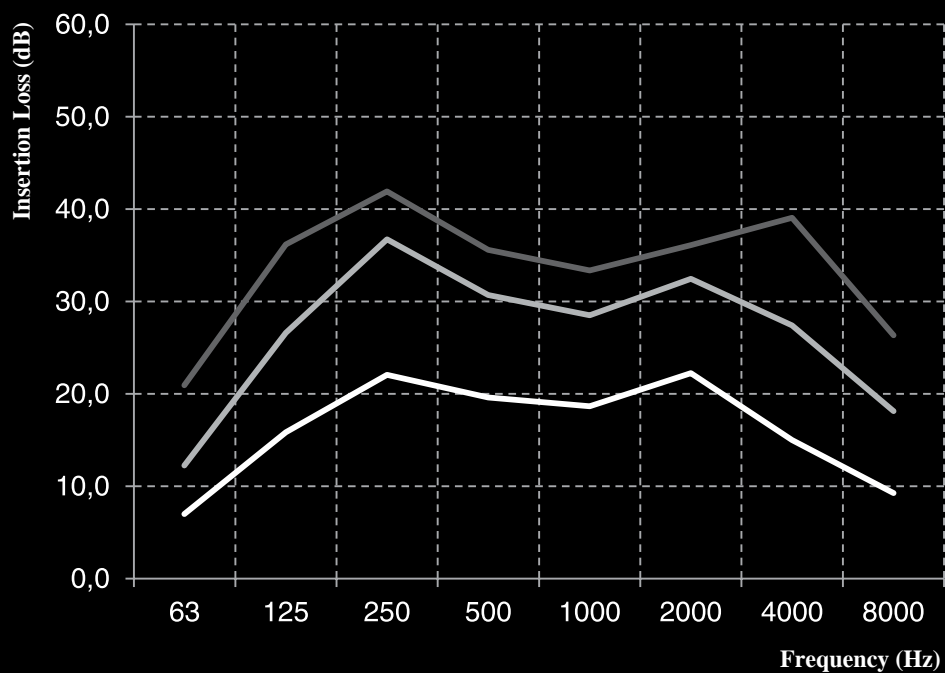


f	63	125	250	500	1000	2000	4000	8000
1m	4,2	22,5	32,3	28,4	25,3	27,3	40,8	25,9
2m	11,4	34,7	44,1	39,1	36,8	37,3	50,4	41,4
3m	15,0	38,3	48,8	44,1	41,9	41,8	53,1	47,5

Ø160mm

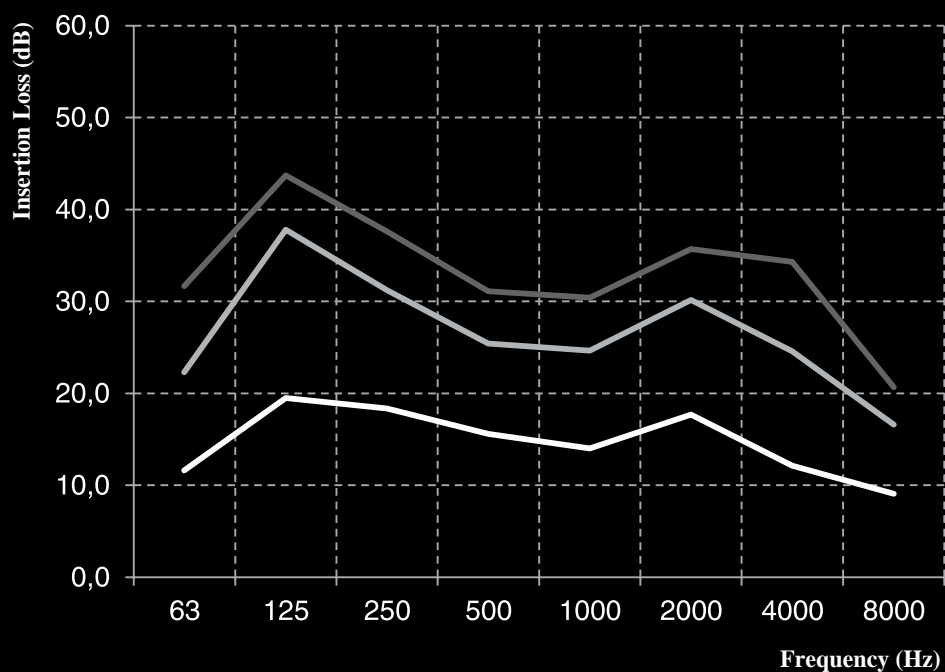


f	63	125	250	500	1000	2000	4000	8000
1m	4,2	18,2	29,6	25,3	22,5	26,4	24,3	15,5
2m	10,4	28,8	39,3	35,1	32,6	36,3	42,9	28,7
3m	16,9	37,0	48,9	40,5	38,2	40,7	53,2	39,6



f	63	125	250	500	1000	2000	4000	8000
1m	7,0	15,8	22,1	19,6	18,6	22,2	15,0	9,3
2m	12,3	26,6	36,7	30,7	28,5	32,4	27,4	18,1
3m	21,0	36,2	41,9	35,6	33,3	36,1	39,1	26,4

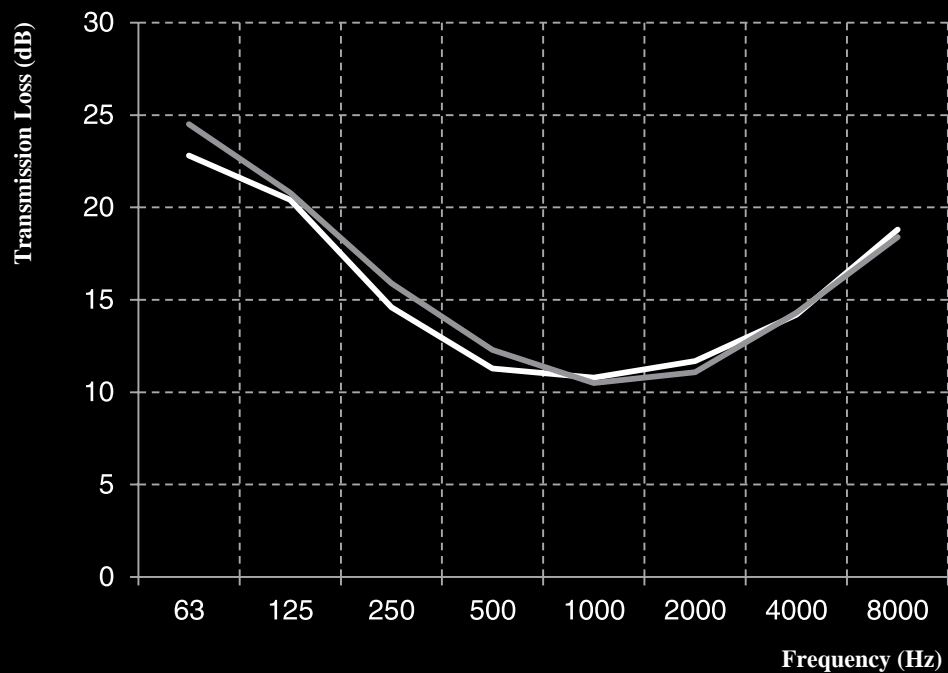
Ø203mm



f	63	125	250	500	1000	2000	4000	8000
1m	11,6	19,5	18,3	15,6	14,0	17,7	12,2	9,1
2m	22,3	37,8	31,2	25,4	24,7	30,2	24,6	16,6
3m	31,6	43,7	37,6	31,1	30,4	35,7	34,3	20,7

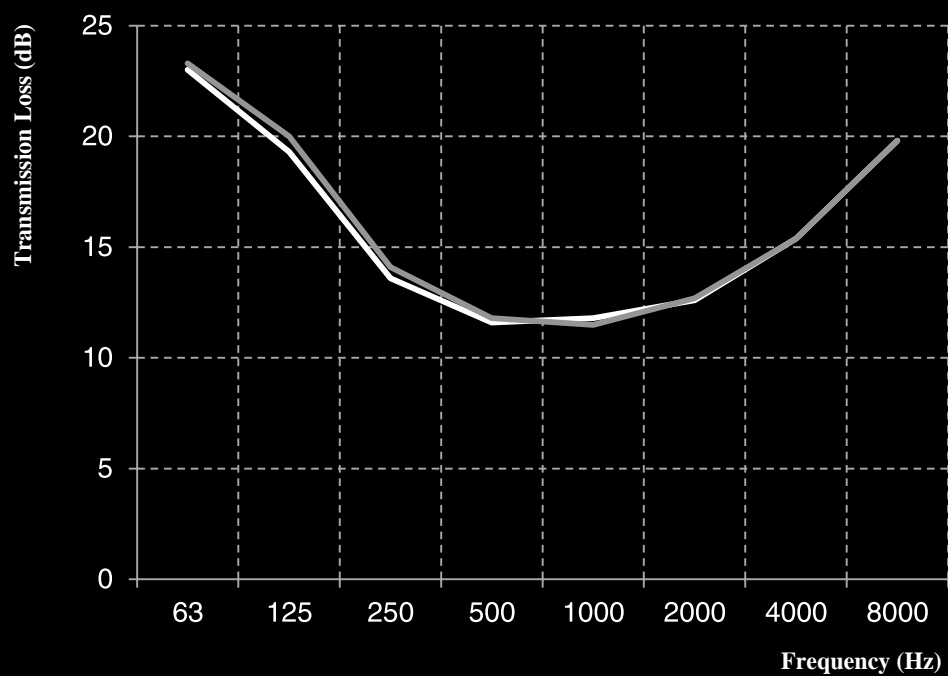
Ø254mm

Ø127mm



f	63	125	250	500	1000	2000	4000	8000
1m	22,8	20,4	14,6	11,3	10,8	11,7	14,2	18,8
3m	24,5	20,8	15,9	12,3	10,5	11,1	14,3	18,4

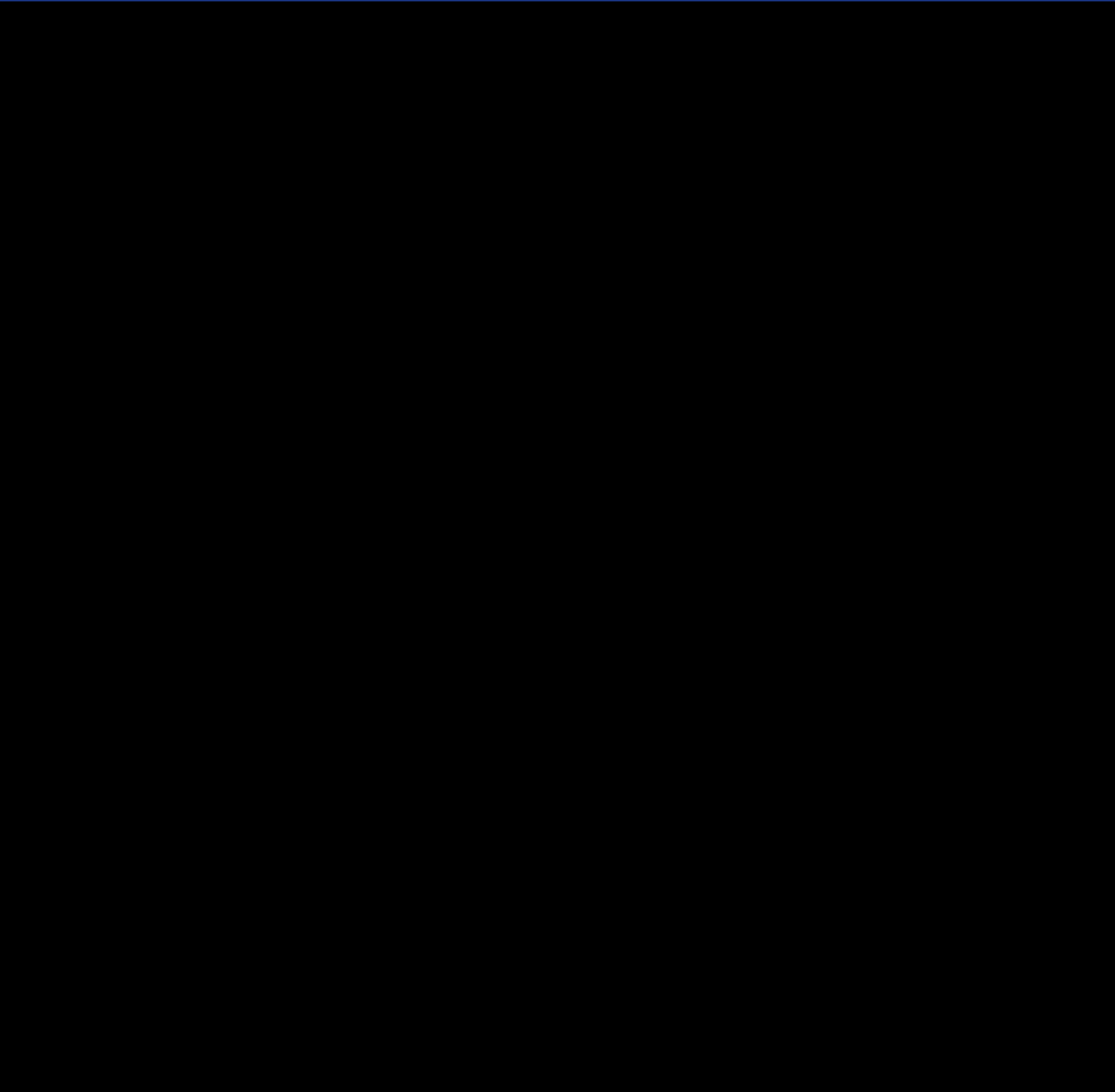
Ø160mm



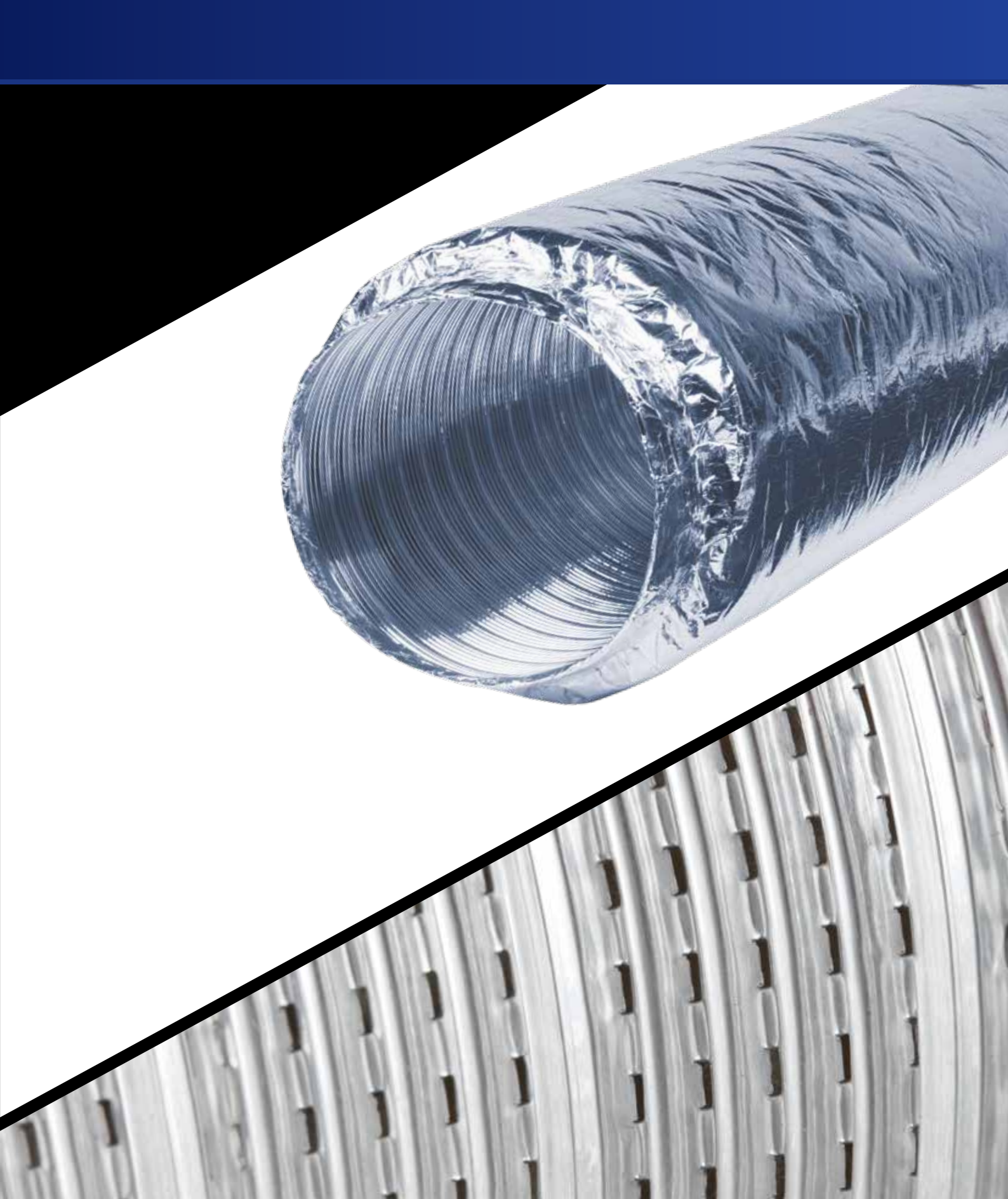
f	63	125	250	500	1000	2000	4000	8000
1m	23	19,3	13,6	11,6	11,8	12,6	15,4	19,8
3m	23,3	20	14,1	11,8	11,5	12,7	15,4	19,8

SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
ALU FORTE SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC
ALU FORTE SONOAFS - FORTE GREEN SONOAFS - ALU HYGIENE ACOUSTIC SEMIAFS PHONIC

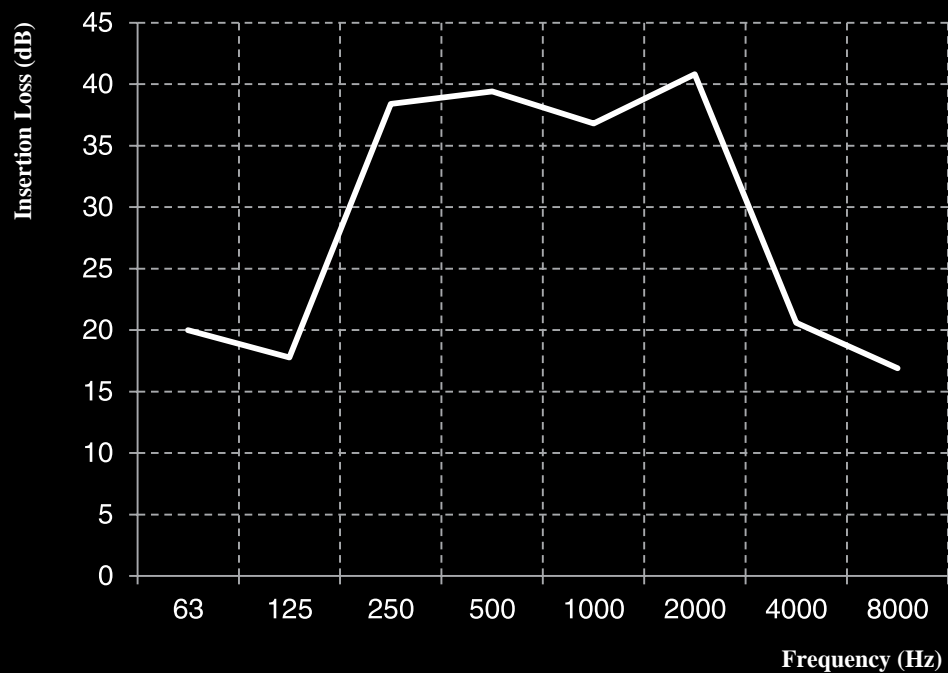
ACOUSTIC SEMIAFS



PHONIC SEMIAFS SILENCERAFS
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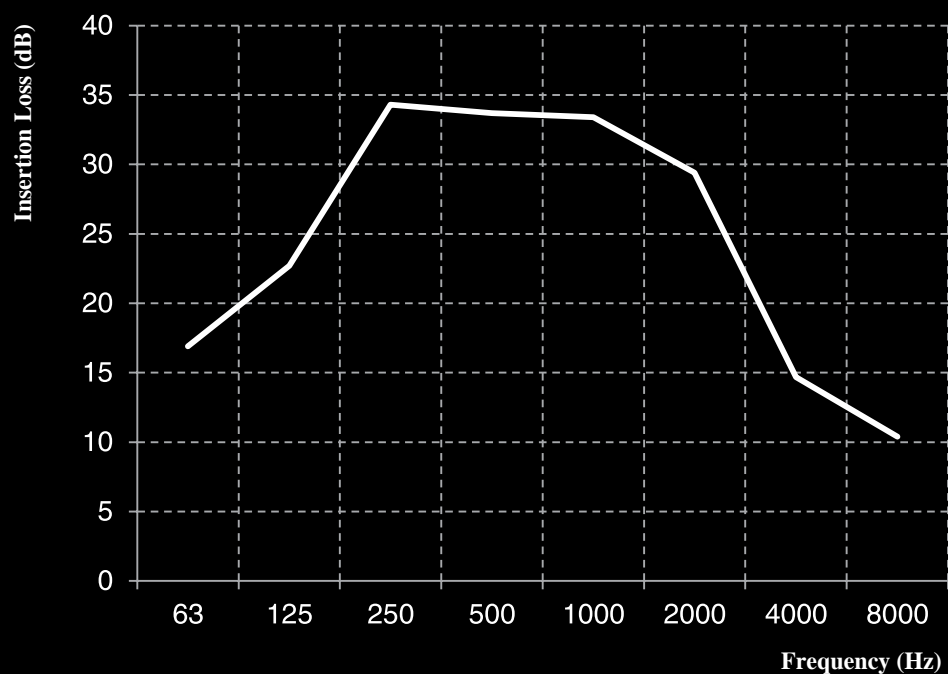


Ø80mm

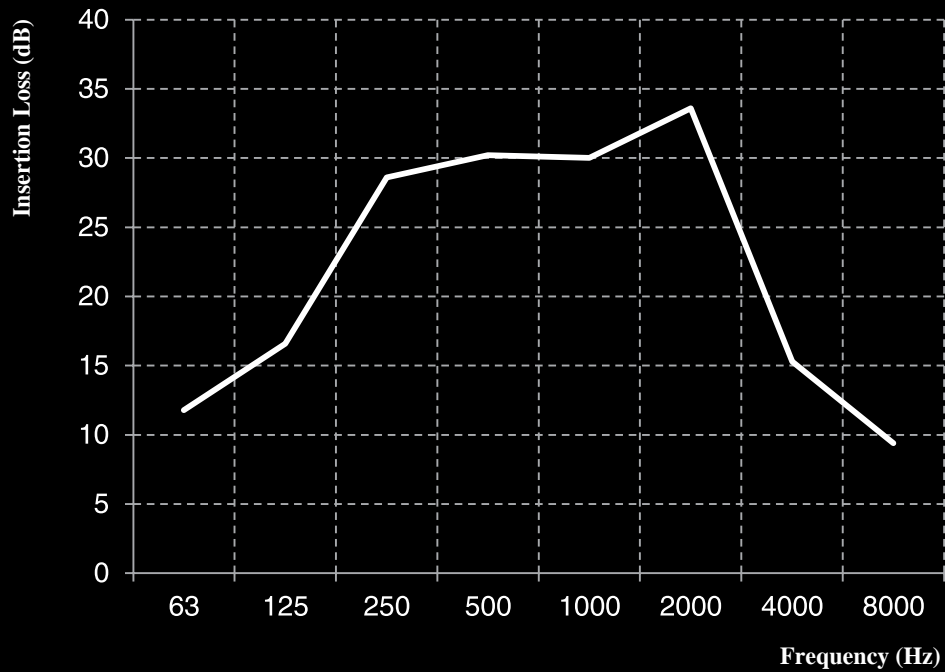


f	63	125	250	500	1000	2000	4000	8000
1m	20	17,8	38,4	39,4	36,8	40,8	20,6	16,9

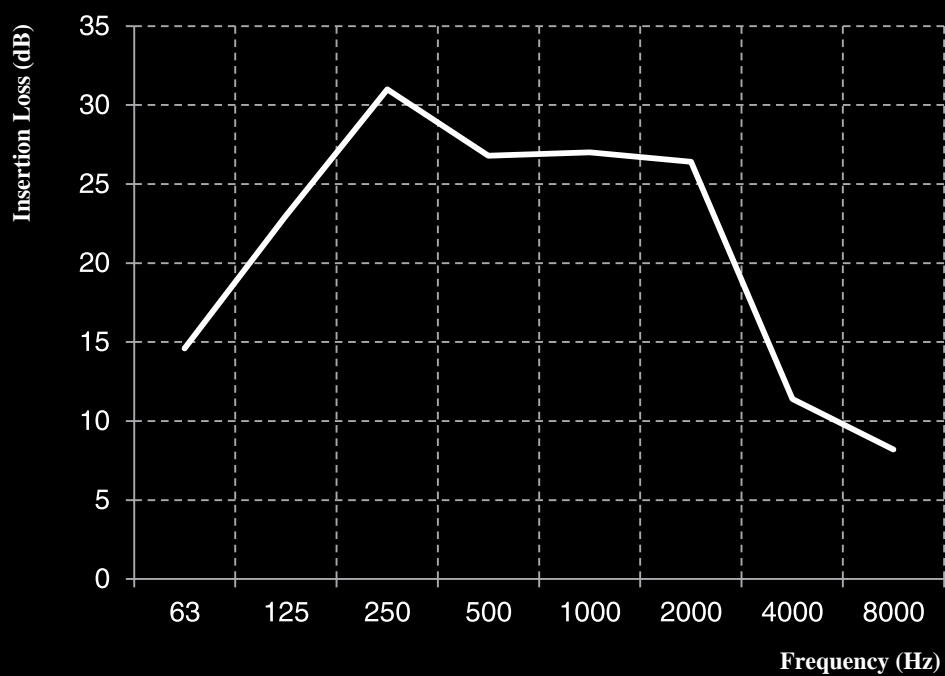
Ø100mm



f	63	125	250	500	1000	2000	4000	8000
1m	16,9	22,7	34,3	33,7	33,4	29,4	14,7	10,4

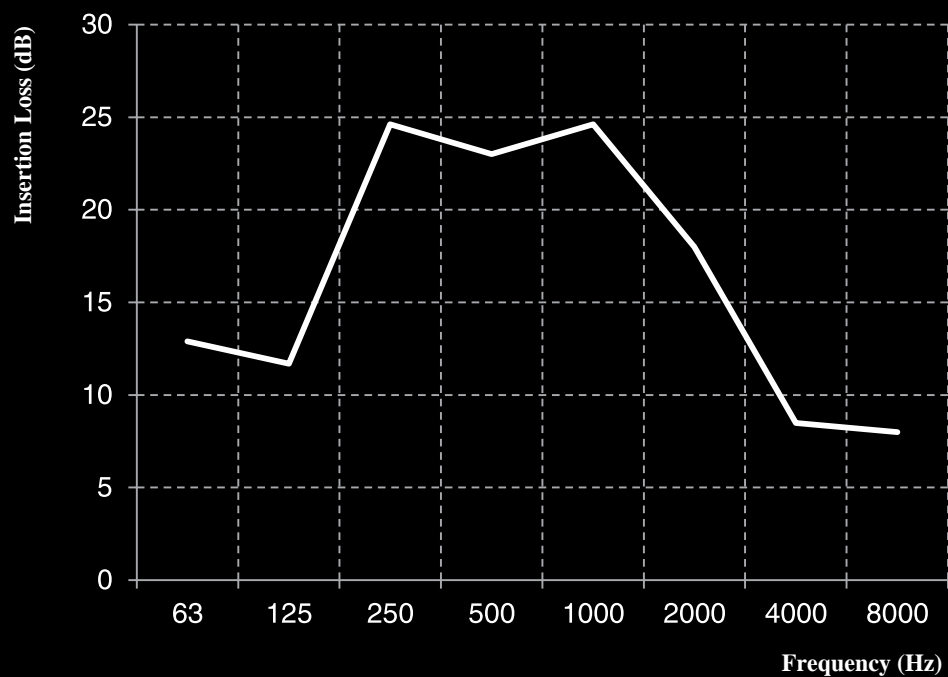


Ø125mm



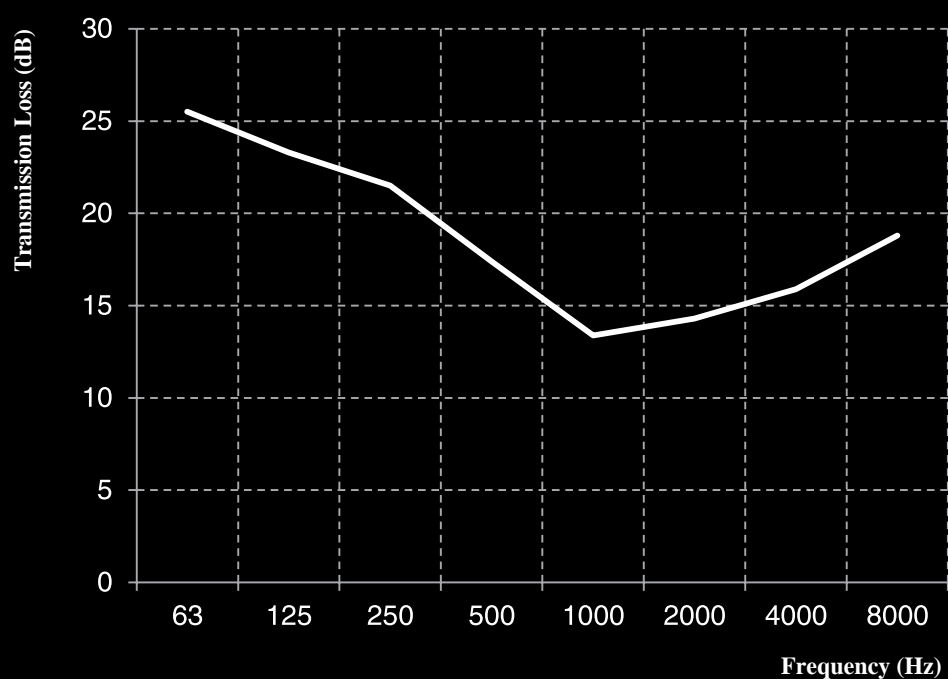
Ø160mm

Ø200mm

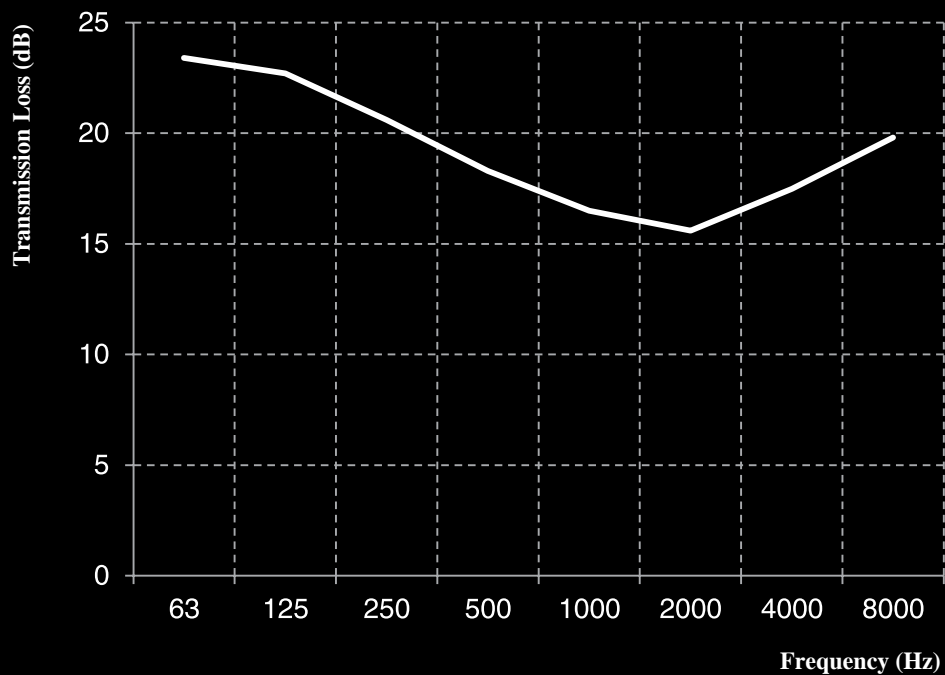


f	63	125	250	500	1000	2000	4000	8000
1m	12,9	11,7	24,6	23	24,6	18	8,5	8

Ø80mm

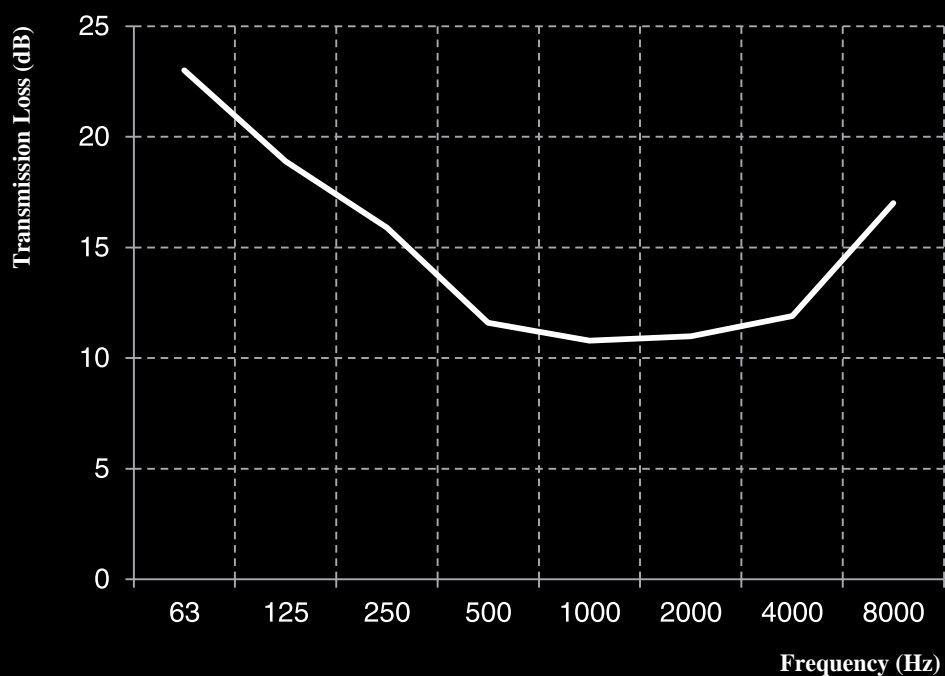


f	63	125	250	500	1000	2000	4000	8000
1m	25,5	23,3	21,5	17,4	13,4	14,3	15,9	18,8



Ø100mm

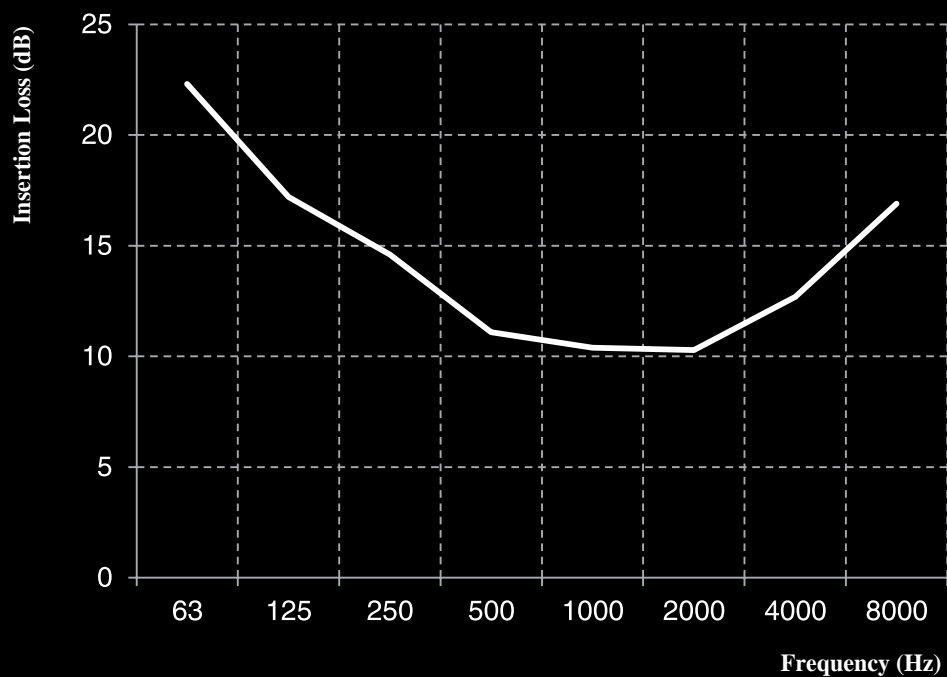
f	63	125	250	500	1000	2000	4000	8000
1m	23,4	22,7	20,6	18,3	16,5	15,6	17,5	19,8



Ø125mm

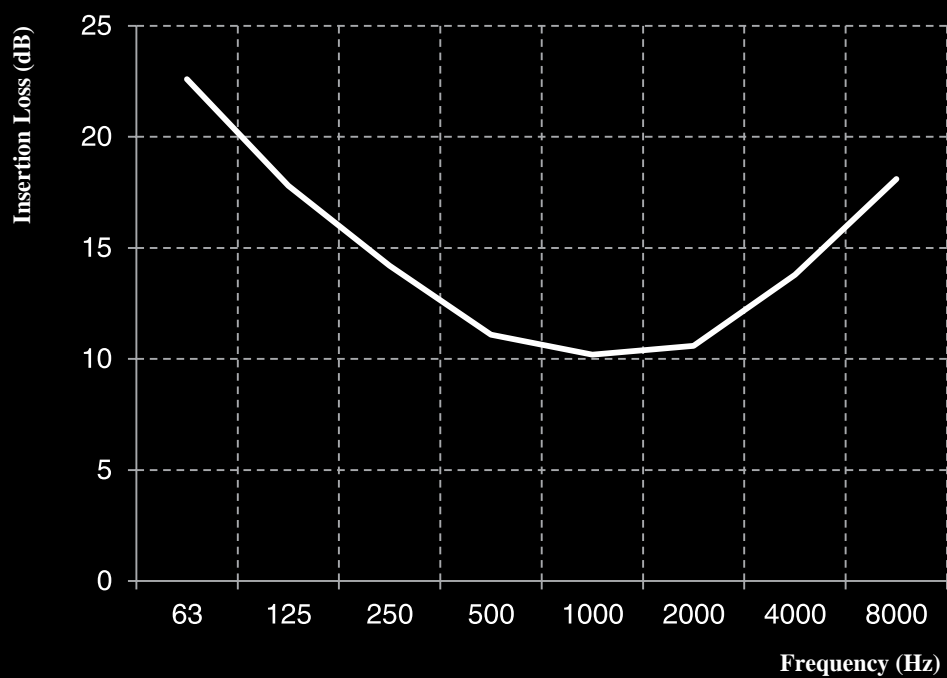
f	63	125	250	500	1000	2000	4000	8000
1m	23	18,9	15,9	11,6	10,8	11	11,9	17

Ø160mm



f	63	125	250	500	1000	2000	4000	8000
1m	22,3	17,2	14,6	11,1	10,4	10,3	12,7	16,9

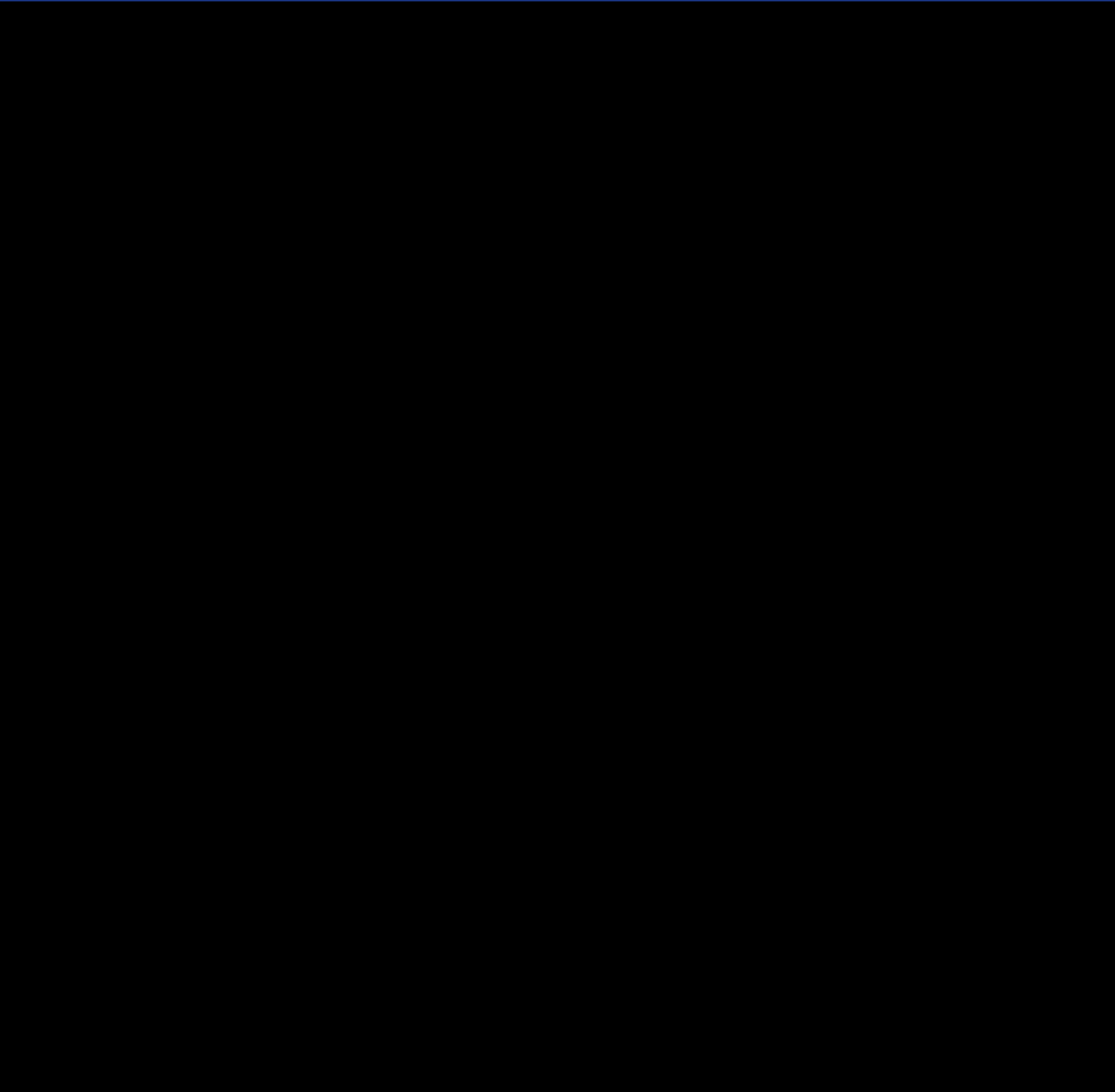
Ø200mm



f	63	125	250	500	1000	2000	4000	8000
1m	22,6	17,8	14,2	11,1	10,2	10,6	13,8	18,1

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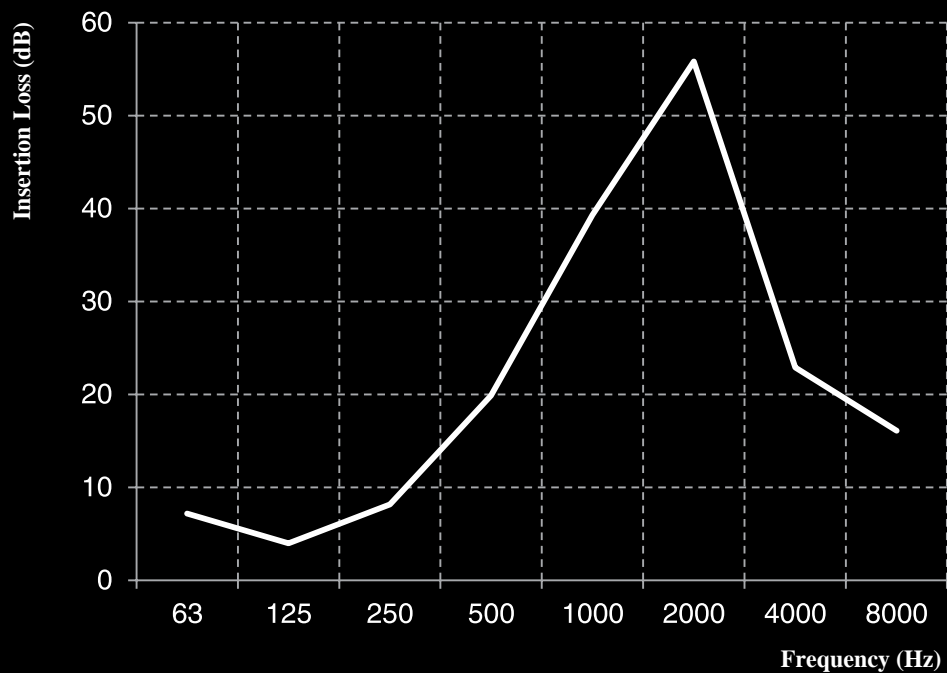
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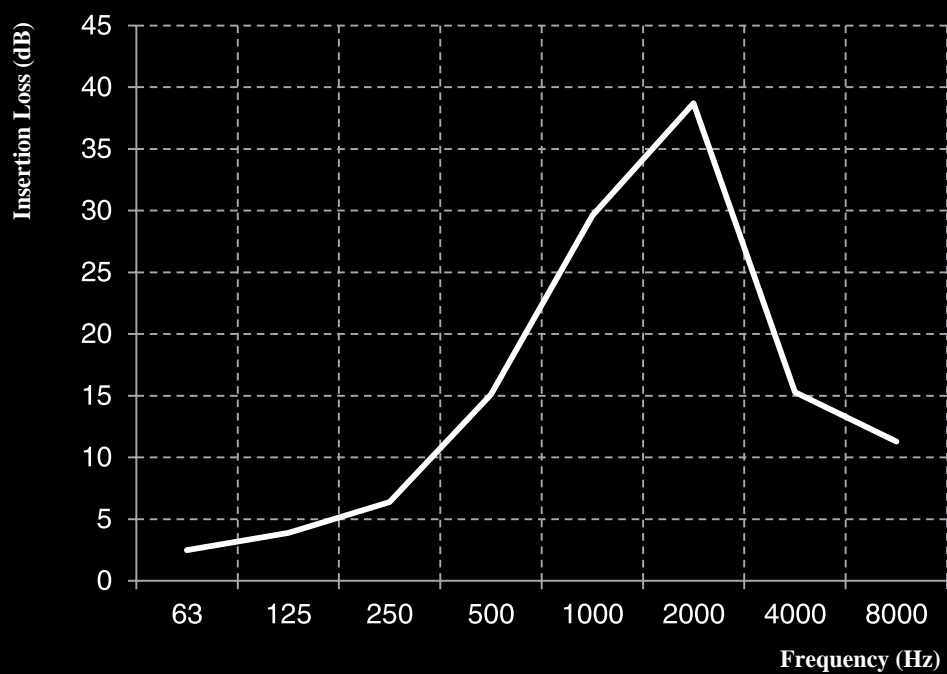


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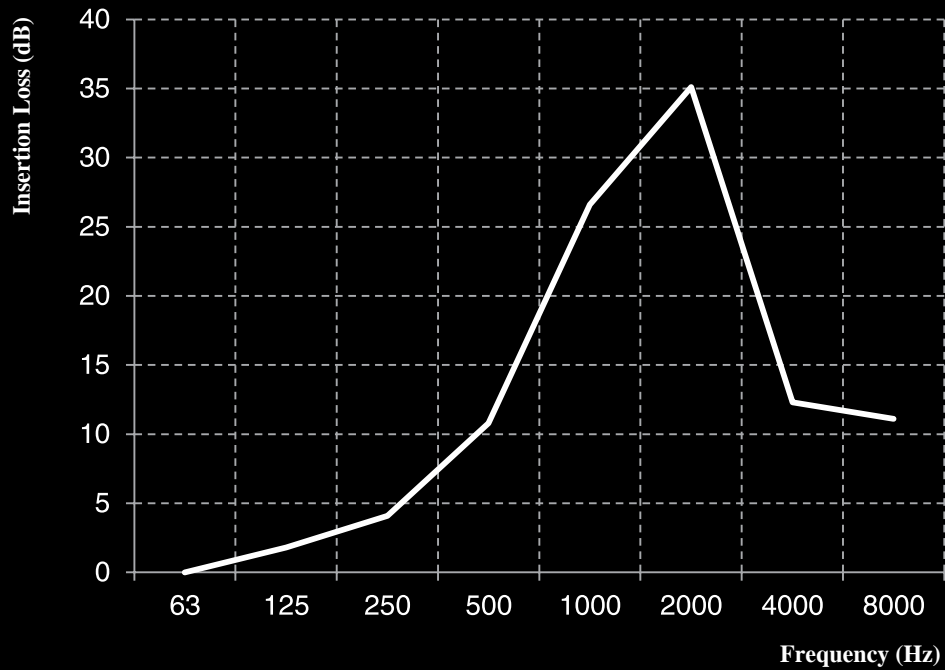


f	63	125	250	500	1000	2000	4000	8000
1m	7,2	4	8,2	19,9	39,3	55,8	22,9	16,1

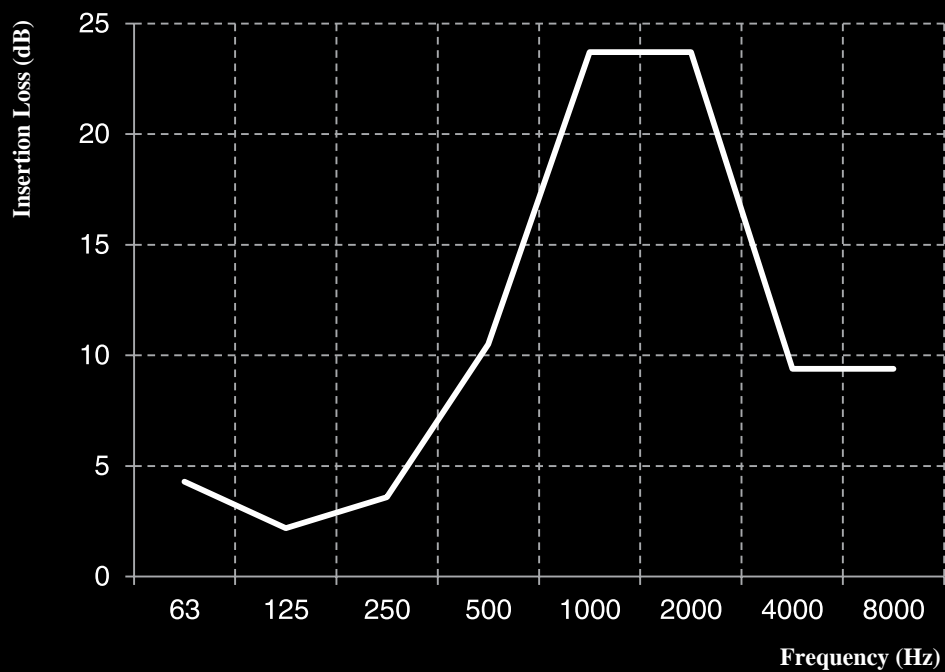
Ø125mm



f	63	125	250	500	1000	2000	4000	8000
1m	2,5	3,9	6,4	15,1	29,6	38,7	15,3	11,3

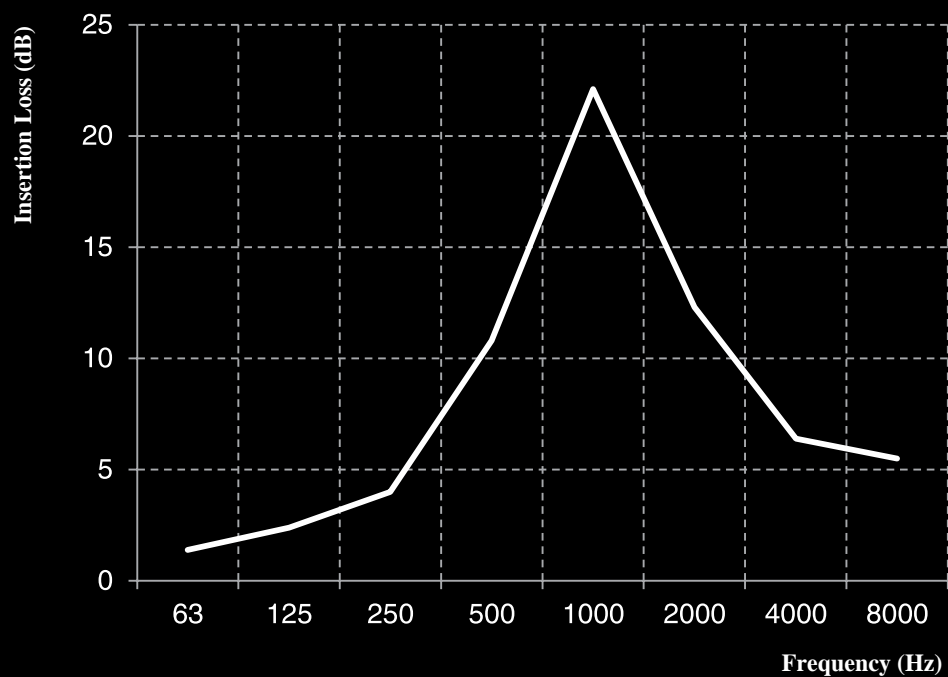


Ø160mm



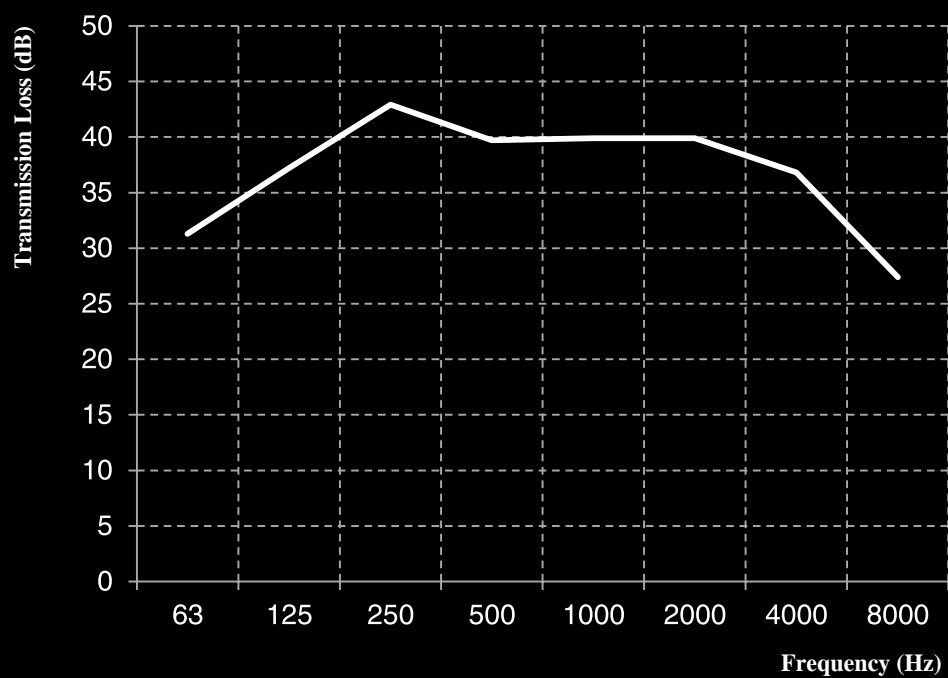
Ø200mm

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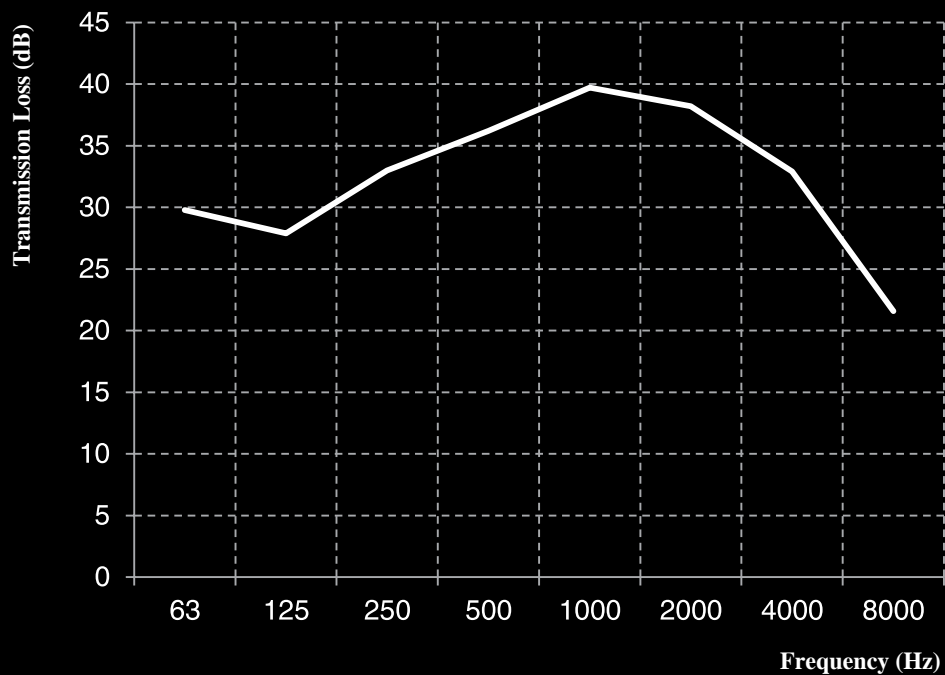


f	63	125	250	500	1000	2000	4000	8000
1m	1,4	2,4	4	10,8	22,1	12,3	6,4	5,5

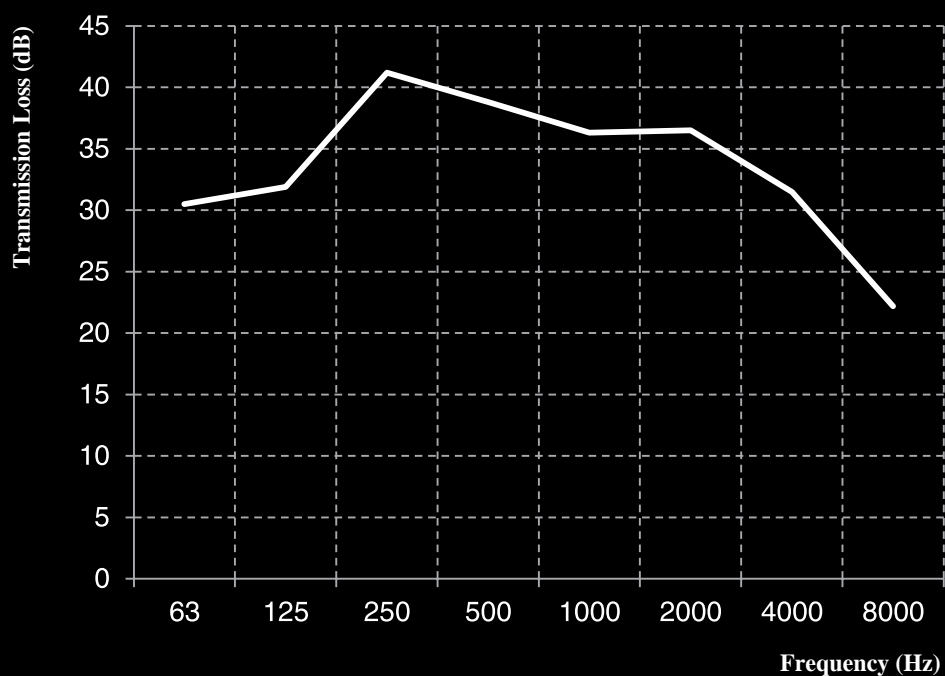
Ø100mm



f	63	125	250	500	1000	2000	4000	8000
1m	31,3	37,2	42,9	39,7	39,9	39,9	36,8	27,4

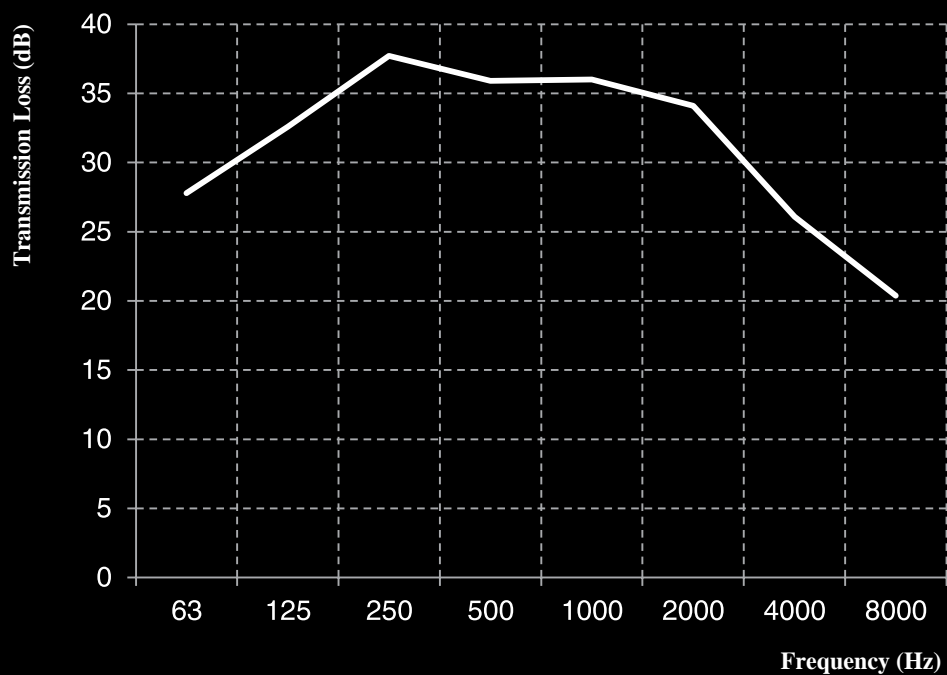


Ø125mm



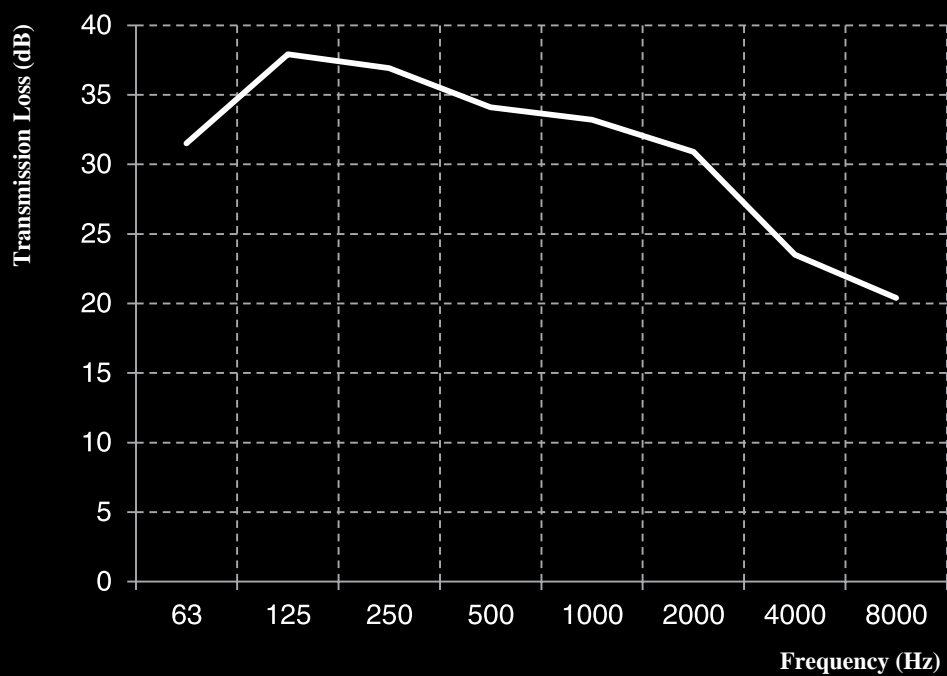
Ø160mm

Ø200mm



f	63	125	250	500	1000	2000	4000	8000
1m	27,8	32,6	37,7	35,9	36	34,1	26,1	20,4

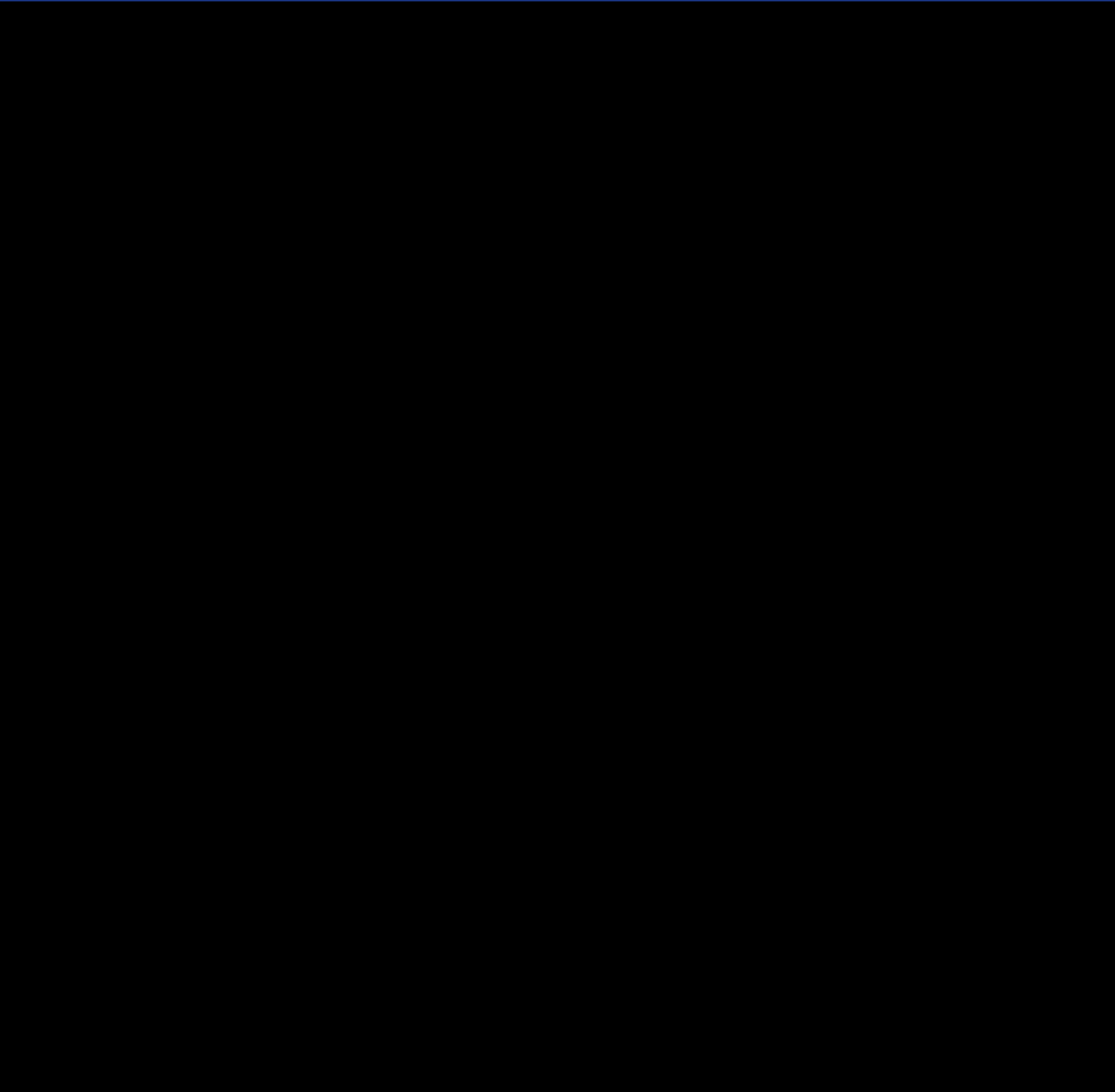
Ø250mm



f	63	125	250	500	1000	2000	4000	8000
1m	31,5	37,9	36,9	34,1	33,2	30,9	23,5	20,4

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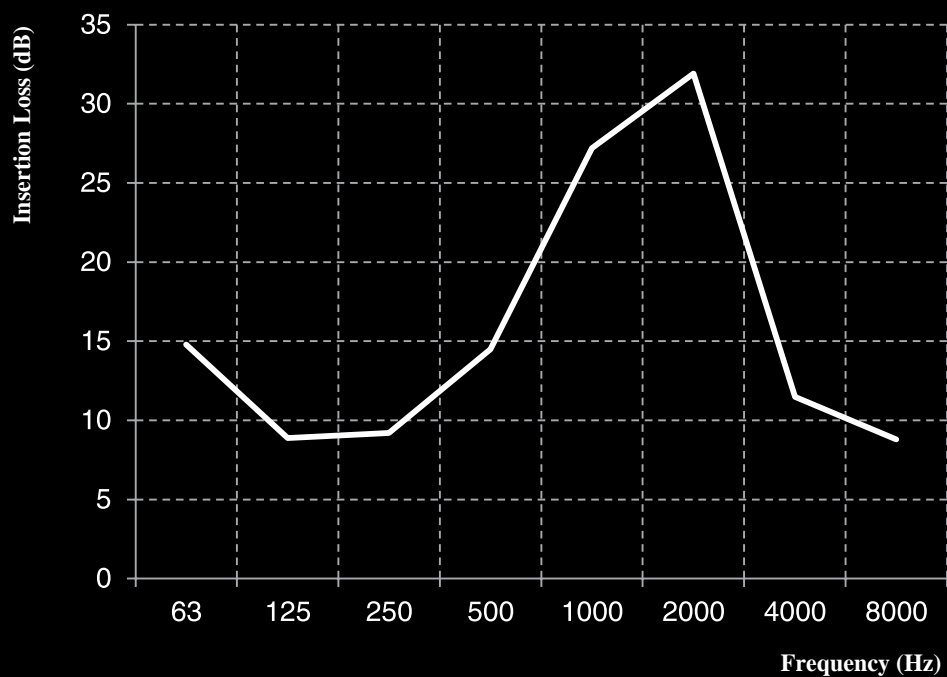
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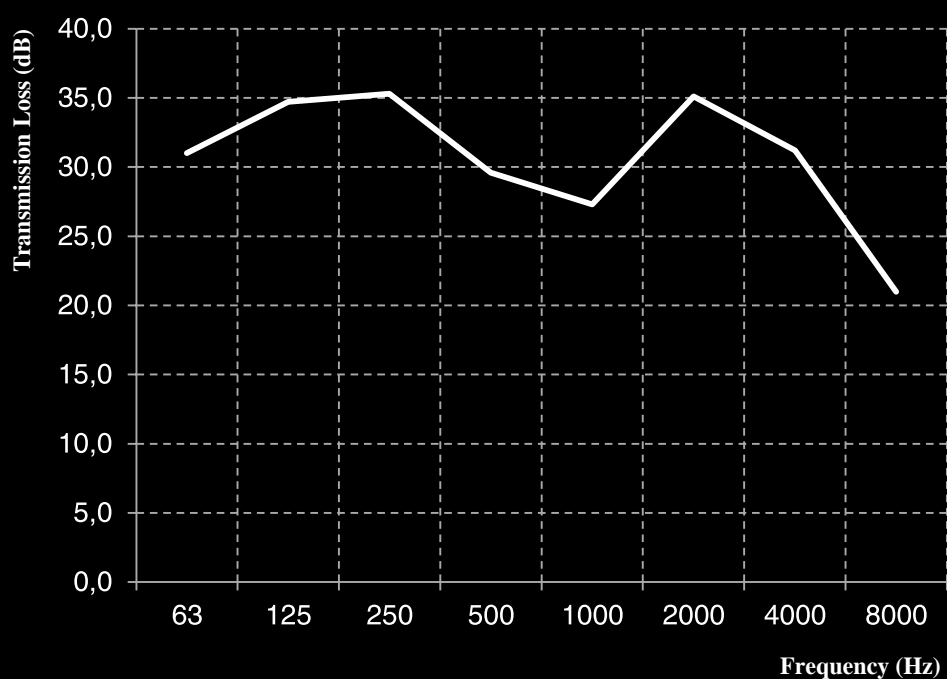


Ø125mm



f	63	125	250	500	1000	2000	4000	8000
1m	14,8	8,9	9,2	14,5	27,2	31,9	11,5	8,8

Ø125mm



f	63	125	250	500	1000	2000	4000	8000
1m	31,0	34,7	35,3	29,6	27,3	35,1	31,2	21,0

Handwriting practice area with 30 sets of dashed lines for tracing on a white background.

Handwriting practice lines consisting of 30 horizontal dashed lines.



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