



**PREFAB ACOUSTIC SOLUTIONS**

## OVERVIEW SOUND INSULATION



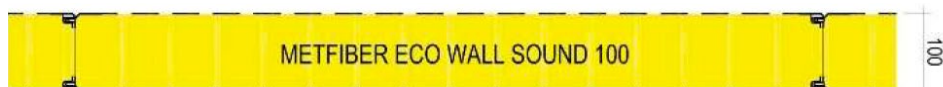
Metecno Sound Website

# Measurement of the sound insulation

## Product

Metfiber Eco Wall Sound 100 mm

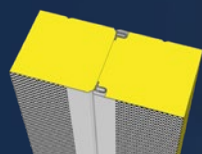
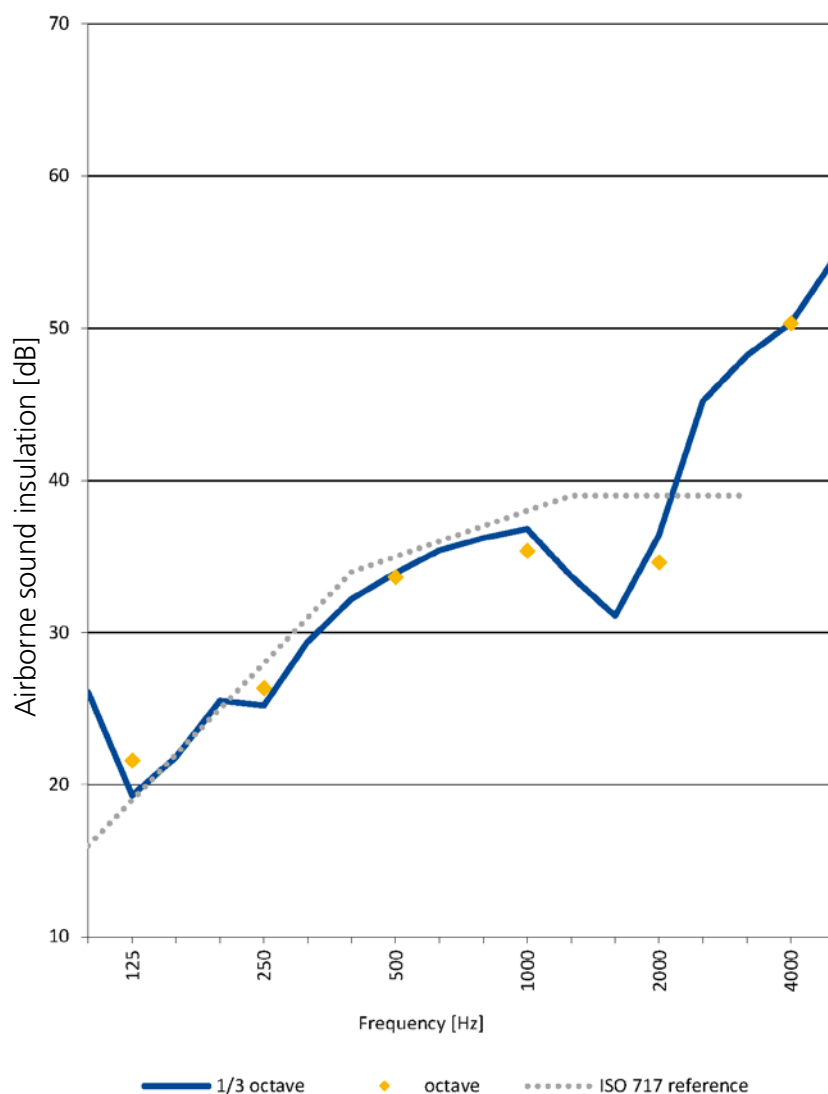
Surface 10,0 m<sup>2</sup>  
Thickness 100 mm  
Standard ISO 717-1:2013



Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	26,1	21,6
	19,3	
	21,8	
250	25,5	26,3
	25,2	
	29,4	
500	32,2	33,6
	33,9	
	35,4	
1000	36,2	35,3
	36,8	
	33,7	
2000	31,1	34,6
	36,4	
	45,2	
4000	48,2	50,3
	50,3	
	54,6	

R<sub>w</sub> 35 dB  
C<sub>v</sub> -1,4 dB

Country Netherlands  
Laboratory TU Eindhoven  
Report nr. 039  
Test year 2020

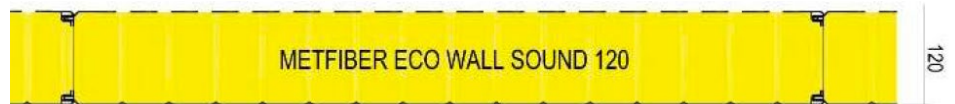


# Measurement of the sound insulation

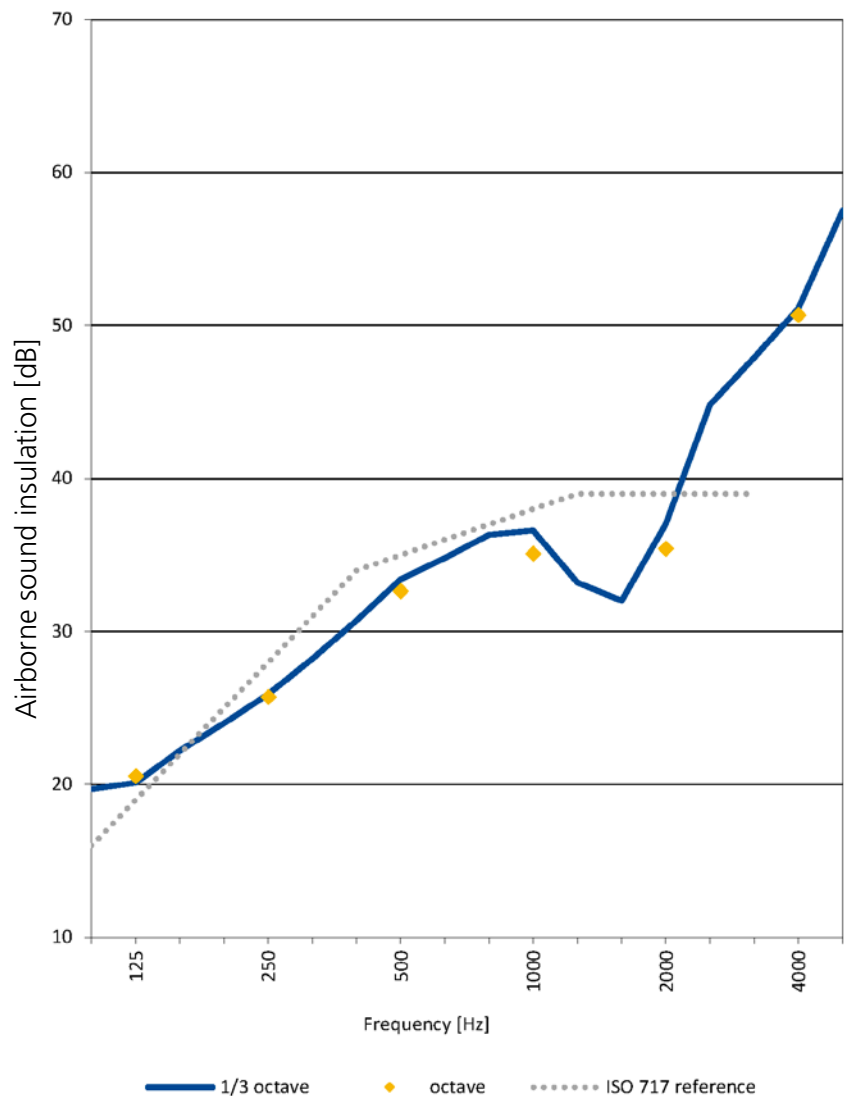
## Product

Metfiber Eco Wall Sound 120 mm

Surface 12,0 m<sup>2</sup>  
 Thickness 120 mm  
 Standard ISO 717-1:2013

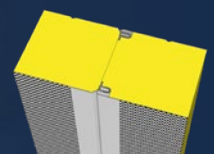


Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	19,7	20,5
	20,1	
	22,2	
250	24,0	25,7
	25,9	
	28,2	
500	30,7	32,6
	33,4	
	34,8	
1000	36,3	35,1
	36,6	
	33,2	
2000	32,0	35,4
	37,0	
	44,8	
4000	47,9	50,7
	51,1	
	57,5	



R<sub>w</sub> 35 dB  
 C, C<sub>tr</sub> -1, -4 dB

Country Netherlands  
 Laboratory Peutz  
 Report nr. 004  
 Test year 2016



# Measurement of the sound insulation

## Product

Metfiber Eco Wall Sound 150 mm

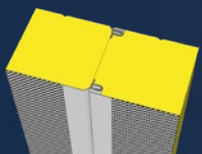
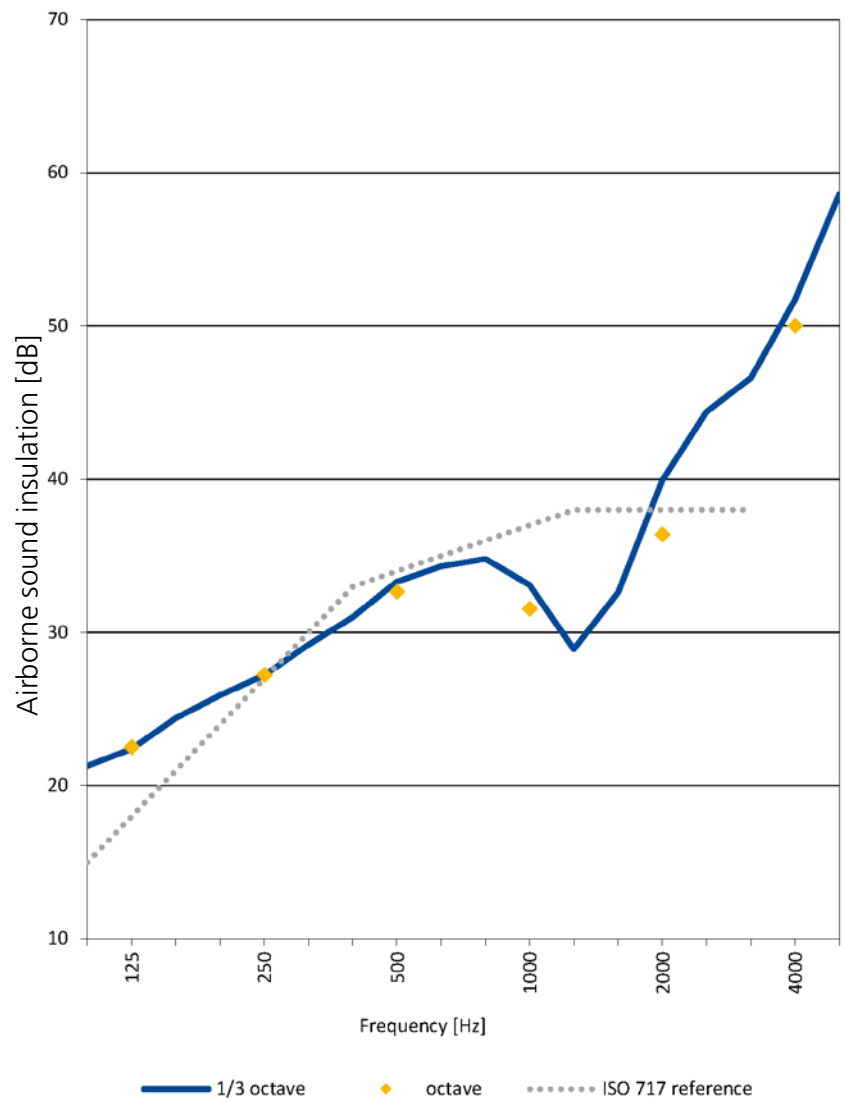
Surface 12,0 m<sup>2</sup>  
Thickness 150 mm  
Standard ISO 717-1:2013



Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	21,3	22,5
	22,4	
	24,4	
250	25,9	27,2
	27,2	
	29,2	
500	31,0	32,6
	33,3	
	34,3	
1000	34,8	31,5
	33,1	
	28,9	
2000	32,6	36,4
	39,9	
	44,4	
4000	46,6	50,0
	51,7	
	58,6	

R<sub>w</sub> 34 dB  
C, C<sub>tr</sub> -1,-3 dB

Country Netherlands  
Laboratory Peutz  
Report nr. 005  
Test year 2016



# Measurement of the sound insulation

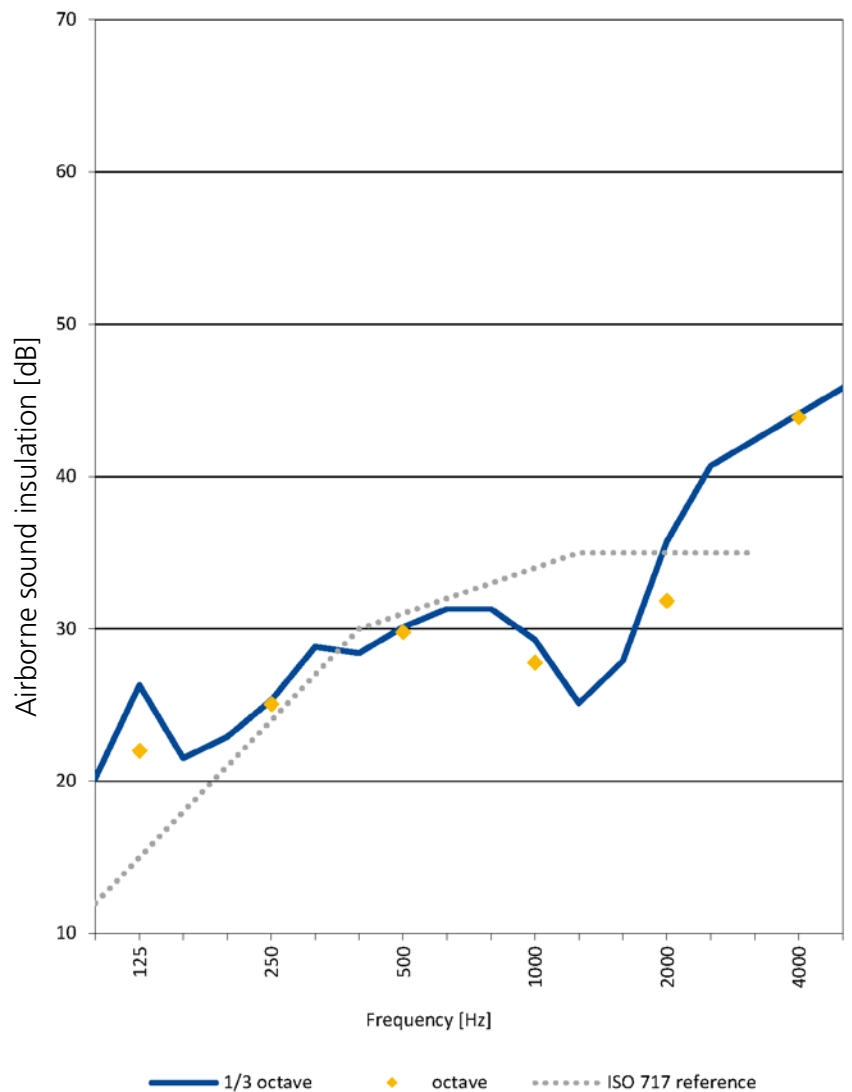
## Product

Hipertec Wall Sound 50 mm

Surface 9,0 m<sup>2</sup>  
 Thickness 50 mm  
 Standard ISO 717-1:1997

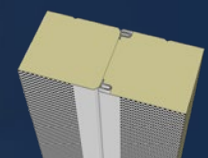


Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	20,2	22,0
	26,3	
	21,5	
250	22,9	25,0
	25,3	
	28,8	
500	28,4	29,8
	30,1	
	31,3	
1000	31,3	27,8
	29,3	
	25,1	
2000	27,9	31,8
	35,7	
	40,7	
4000	42,4	43,9
	44,1	
	45,8	



R<sub>w</sub> 31 dB  
 C, C<sub>tr</sub> -,- dB

Country Italy  
 Laboratory Giordano  
 Report nr. 023  
 Test year 1997



# Measurement of the sound insulation

## Product

Hipertec Wall Sound 60 mm

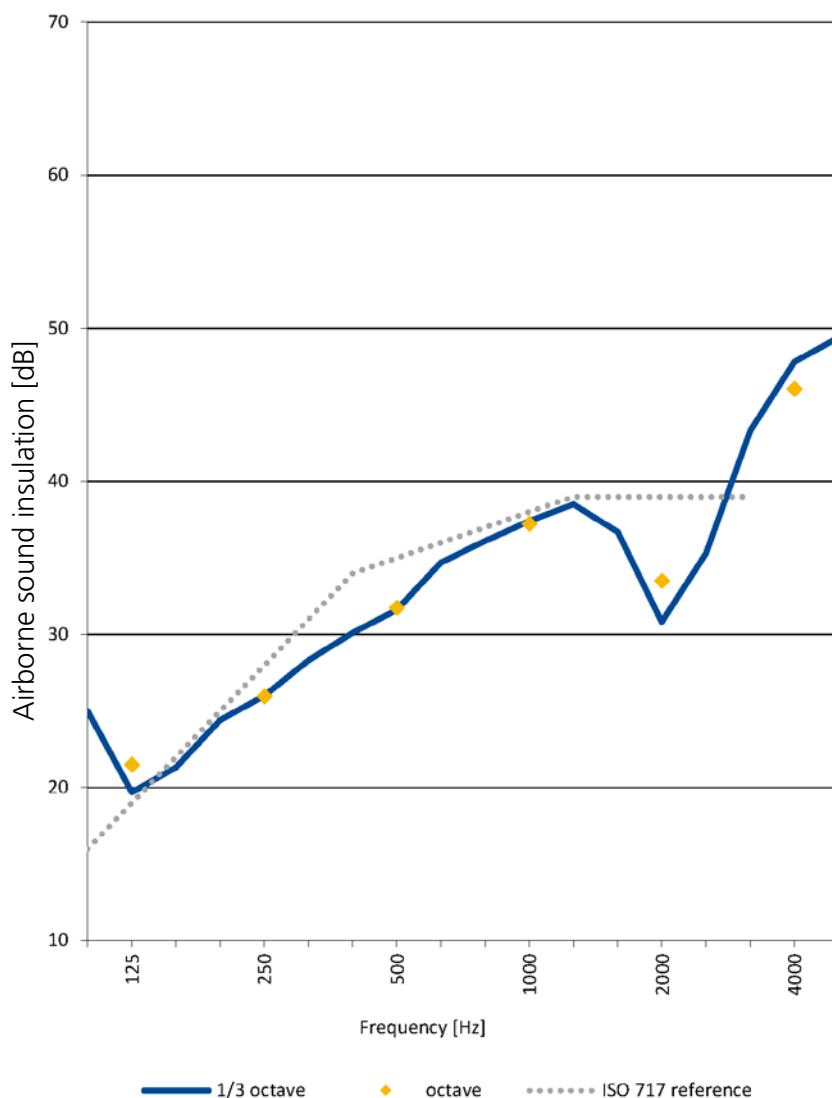
Surface 10,0 m<sup>2</sup>  
Thickness 60 mm  
Standard ISO 717-1:2013



Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	25,0	21,5
	19,7	
	21,3	
250	24,4	26,0
	26,0	
	28,3	
500	30,1	31,7
	31,6	
	34,7	
1000	36,1	37,2
	37,4	
	38,5	
2000	36,7	33,5
	30,8	
	35,3	
4000	43,3	46,0
	47,8	
	49,4	

R<sub>w</sub> 35 dB  
C, C<sub>tr</sub> -2,4 dB

Country Netherlands  
Laboratory TU Eindhoven  
Report nr. 039  
Test year 2020

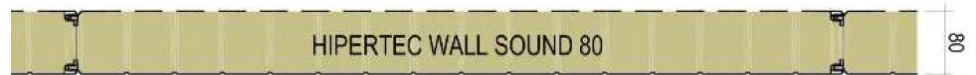


# Measurement of the sound insulation

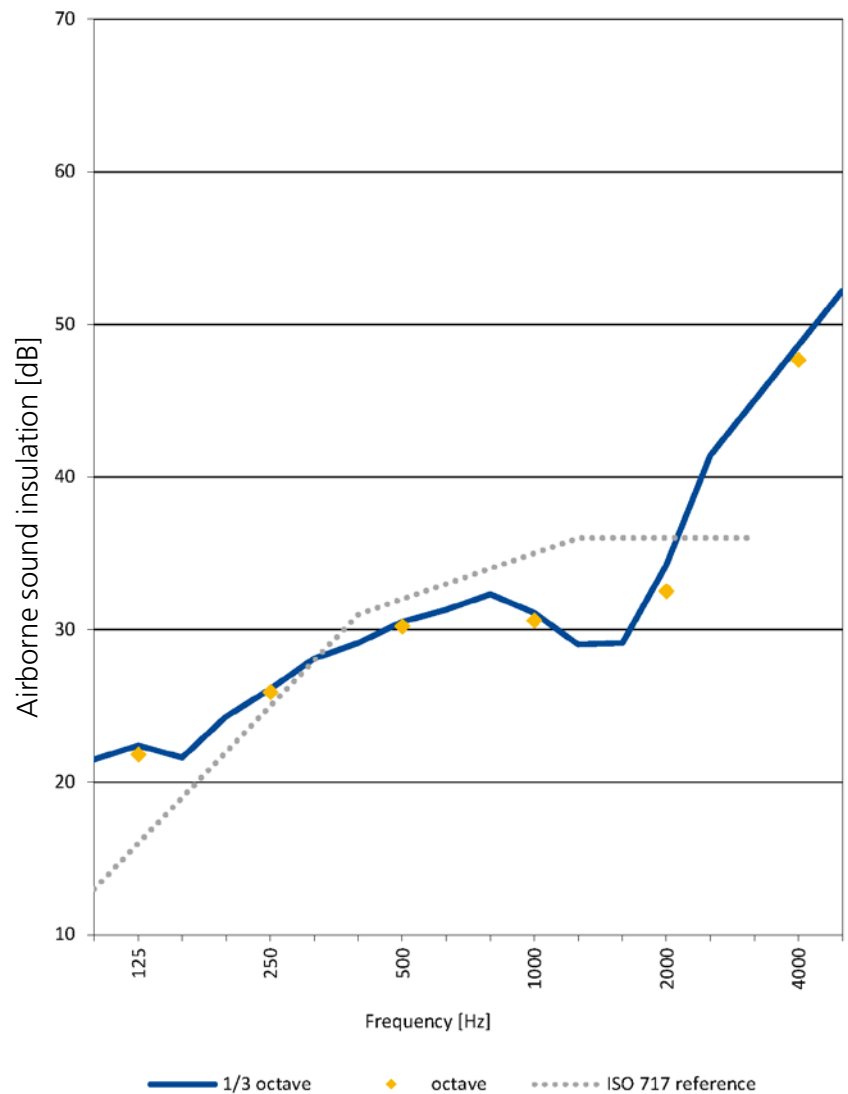
## Product

Hipertec Wall Sound 80 mm

Surface 9,0 m<sup>2</sup>  
 Thickness 80 mm  
 Standard ISO 717-1:1997

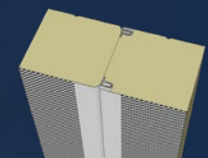


Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	21,5	21,8
	22,4	
	21,6	
250	24,3	25,9
	26,1	
	28,1	
500	29,1	30,2
	30,5	
	31,3	
1000	32,3	30,6
	31,1	
	29,0	
2000	29,1	32,5
	34,2	
	41,4	
4000	45,0	47,7
	48,6	
	52,2	



R<sub>w</sub> 32 dB  
 C, C<sub>tr</sub> -, - dB

Country Italy  
 Laboratory Giordano  
 Report nr. 024  
 Test year 1997

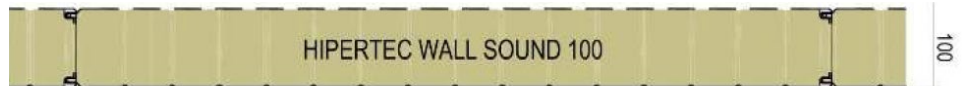


# Measurement of the sound insulation

## Product

Hipertec Wall Sound 100 mm

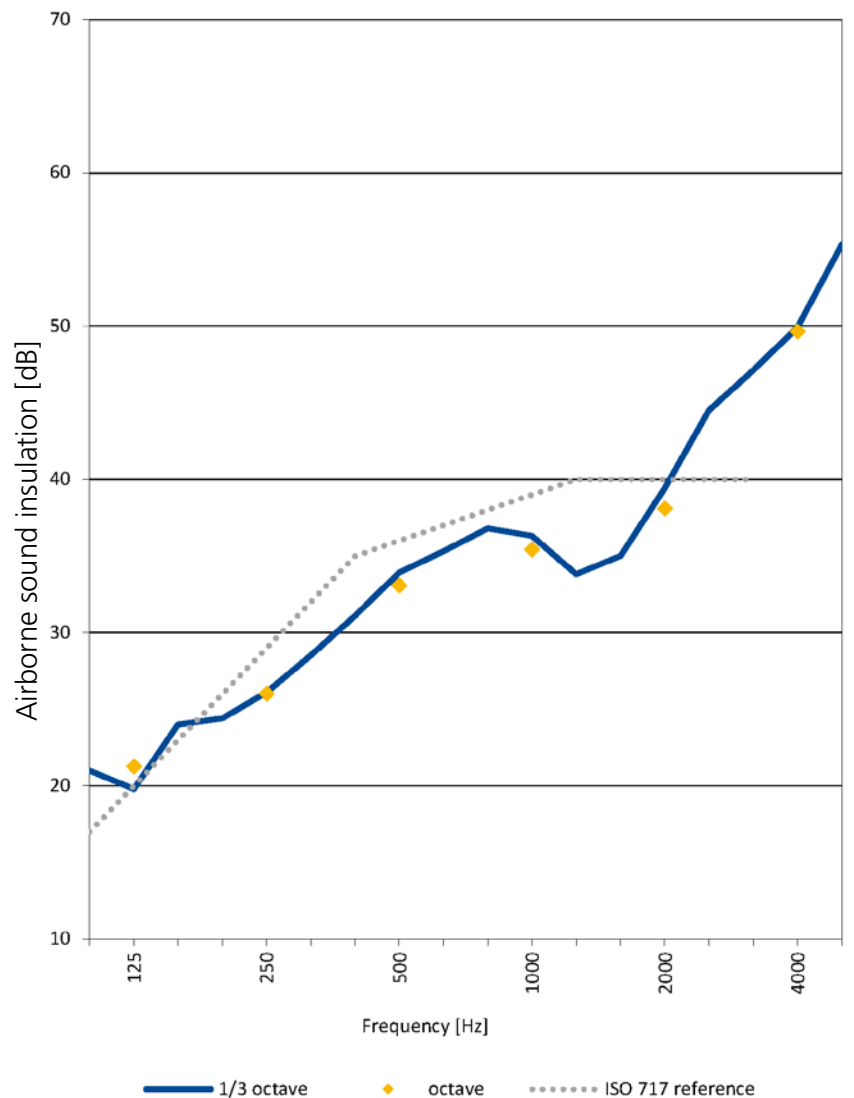
Surface 12,0 m<sup>2</sup>  
Thickness 100 mm  
Standard ISO 717-1:2013



Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	21,0	21,3
	19,8	
	24,0	
250	24,4	26,0
	26,1	
	28,5	
500	31,1	33,1
	33,9	
	35,3	
1000	36,8	35,4
	36,3	
	33,8	
2000	35,0	38,1
	39,4	
	44,5	
4000	47,1	49,6
	49,9	
	55,3	

R<sub>w</sub> 36 dB  
C, C<sub>tr</sub> -2, -5 dB

Country Netherlands  
Laboratory Peutz  
Report nr. 006  
Test year 2016



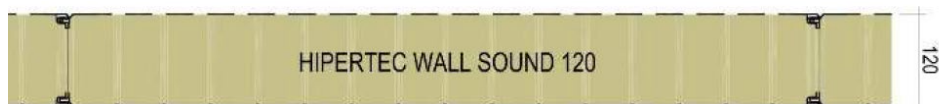


# Measurement of the sound insulation

## Product

Hipertec Wall Sound 120 mm

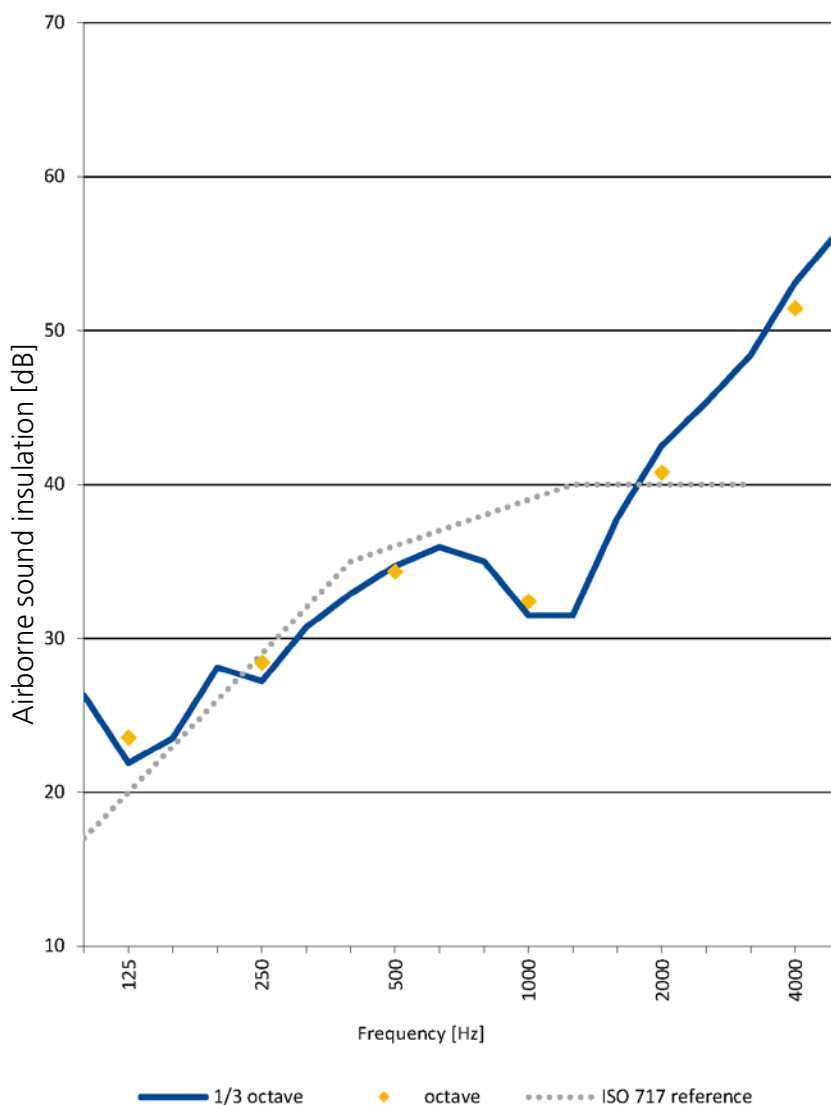
Surface 10,0 m<sup>2</sup>  
Thickness 120 mm  
Standard ISO 717-1:2013



Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	26,3	23,5
	21,9	
	23,5	
250	28,1	28,4
	27,2	
	30,7	
500	32,9	34,3
	34,7	
	35,9	
1000	35,0	32,4
	31,5	
	31,5	
2000	37,8	40,8
	42,5	
	45,3	
4000	48,4	51,4
	53,1	
	56,5	

R<sub>w</sub> 36 dB  
C, C<sub>tr</sub> -2, -4 dB

Country Netherlands  
Laboratory TU Eindhoven  
Report nr. 039  
Test year 2020



# Measurement of the sound insulation

## Product

Metfiber Eco Wall 100 mm

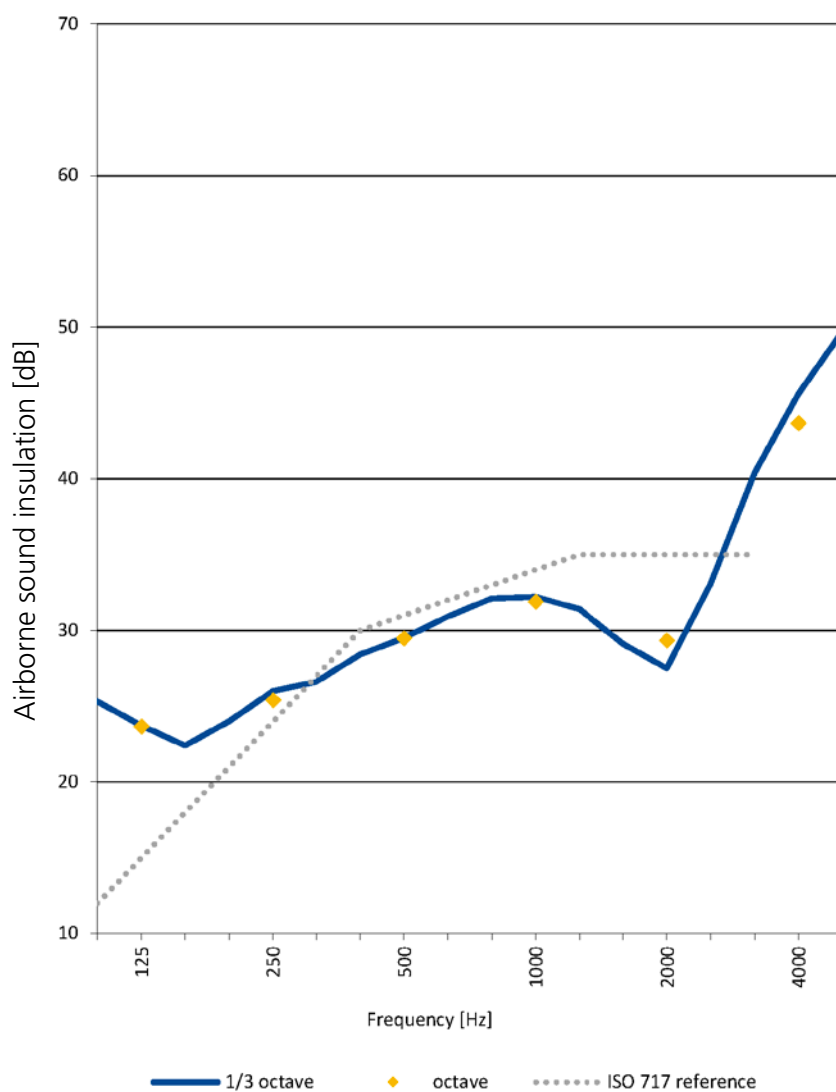
Surface 12,0 m<sup>2</sup>  
Thickness 100 mm  
Standard ISO 717-1:2013



Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	25,3	23,6
	23,7	
	22,4	
250	24,0	25,4
	26,0	
	26,6	
500	28,4	29,5
	29,5	
	30,9	
1000	32,1	31,9
	32,2	
	31,4	
2000	29,1	29,3
	27,5	
	33,1	
4000	40,4	43,6
	45,6	
	49,7	

R<sub>w</sub> 31 dB  
C<sub>tr</sub> -1,-2 dB

Country Netherlands  
Laboratory Peutz  
Report nr. 001  
Test year 2014

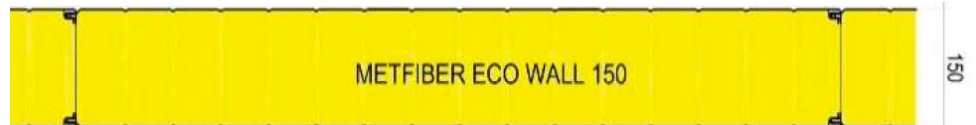


# Measurement of the sound insulation

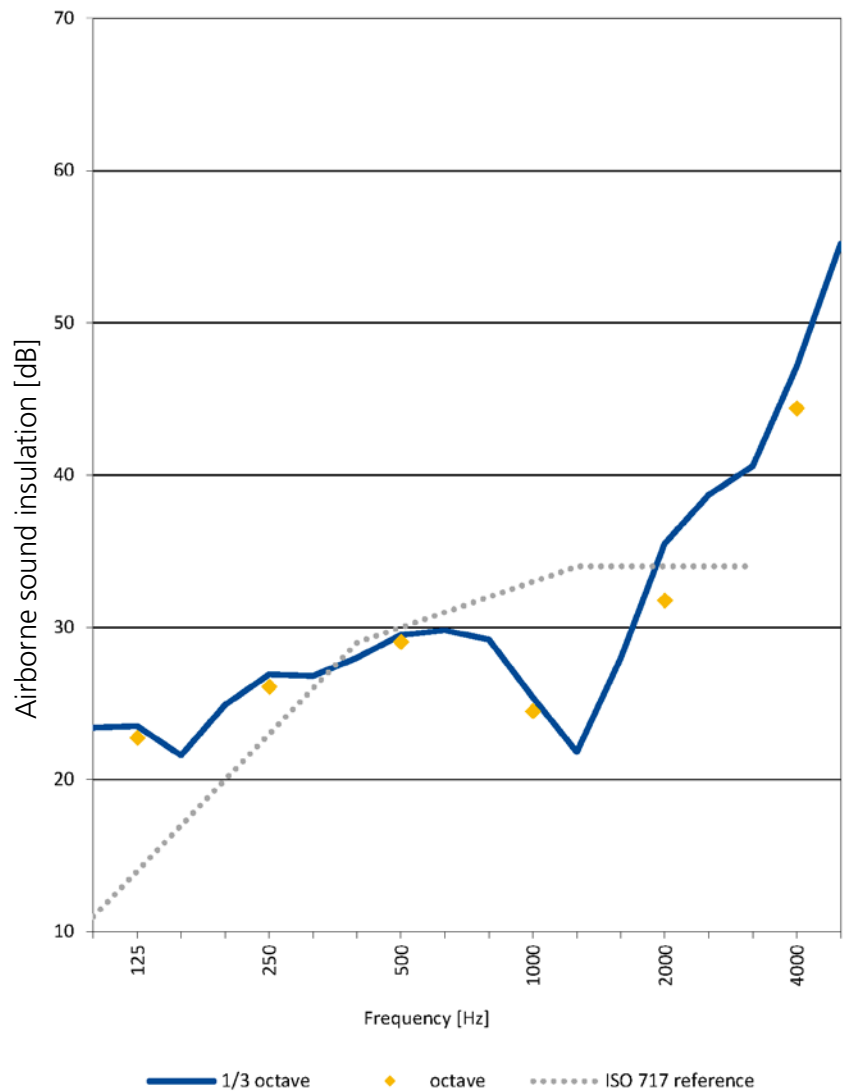
## Product

Metfiber Eco Wall 150 mm

Surface 12,0 m<sup>2</sup>  
 Thickness 150 mm  
 Standard ISO 717-1:2013

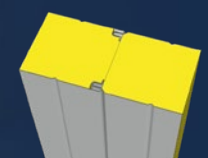


Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	23,4	22,7
	23,5	
	21,6	
250	24,9	26,1
	26,9	
	26,8	
500	28,0	29,0
	29,5	
	29,8	
1000	29,2	24,5
	25,4	
	21,8	
2000	28,0	31,8
	35,5	
	38,7	
4000	40,6	44,4
	47,1	
	55,2	



R<sub>w</sub> 30 dB  
 C, C<sub>tr</sub> -2, -4 dB

Country Netherlands  
 Laboratory Peutz  
 Report nr. 002  
 Test year 2014



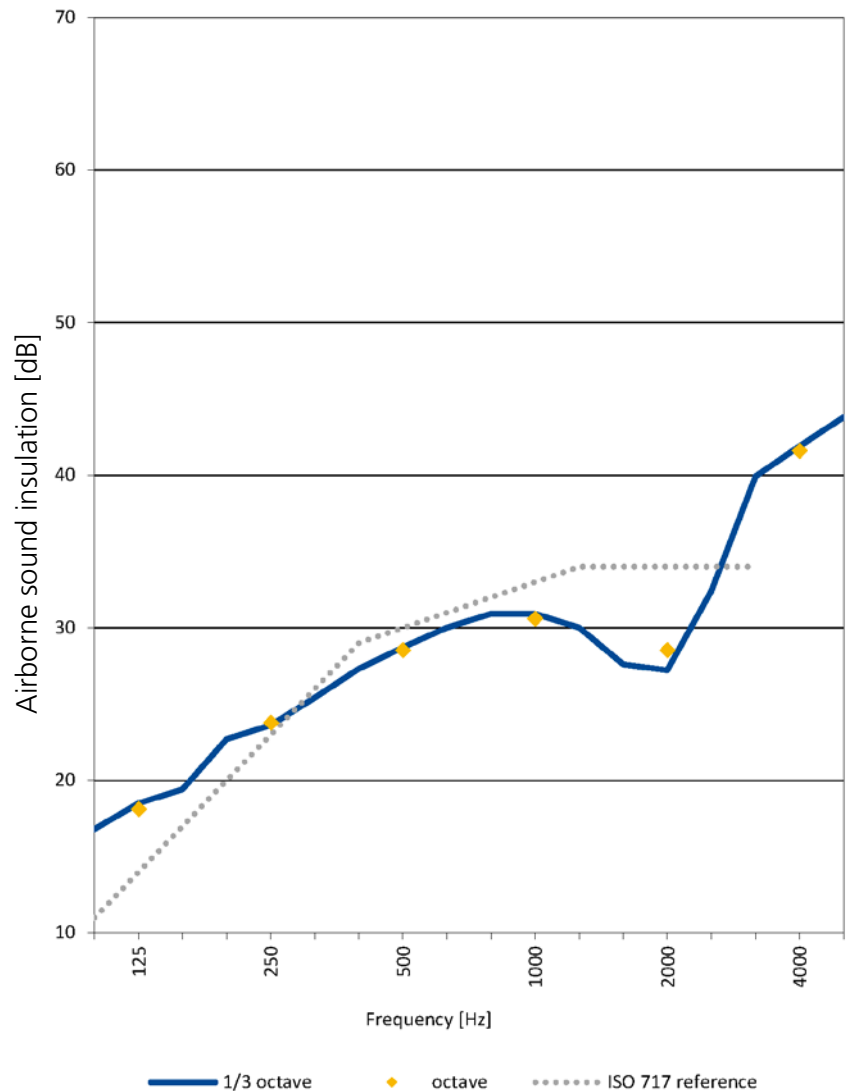
# Measurement of the sound insulation

Product  
Hipertec Wall 50 mm

Surface 11,8 m<sup>2</sup>  
Thickness 50 mm  
Standard ISO 717-1:1997



Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	16,8	18,1
	18,5	
	19,4	
250	22,7	23,8
	23,6	
	25,4	
500	27,3	28,5
	28,7	
	30,0	
1000	30,9	30,6
	30,9	
	30,0	
2000	27,6	28,5
	27,2	
	32,4	
4000	39,9	41,6
	41,9	
	43,8	



R<sub>w</sub> 30 dB  
C, C<sub>tr</sub> -1, -3 dB

Country Germany  
Laboratory Fraunhofer  
Report nr. 017  
Test year 1997



# Measurement of the sound insulation

Product  
Hipertec Wall 60 mm

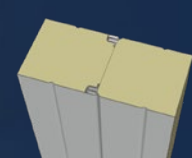
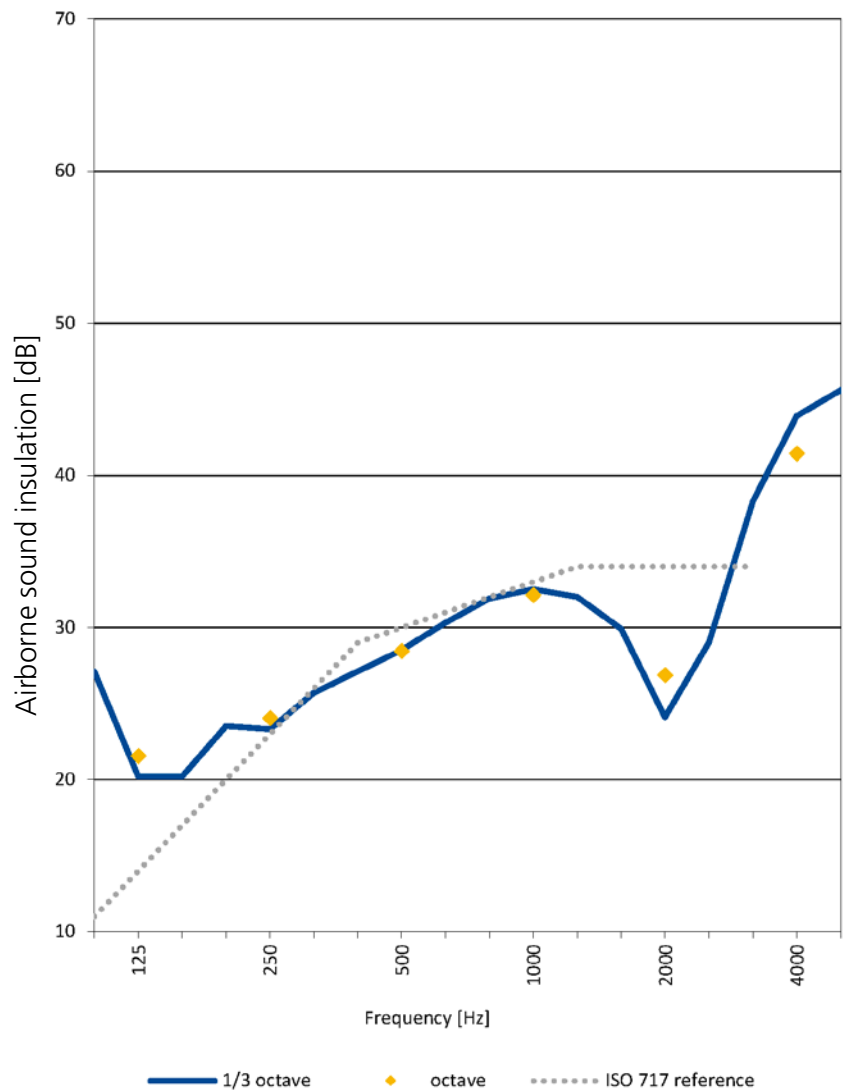
Surface 10,0 m<sup>2</sup>  
Thickness 60 mm  
Standard ISO 717-1:2013



Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	27,1 20,2 20,2	21,5
250	23,5 23,3 25,7	24,0
500	27,1 28,5 30,3	28,4
1000	31,9 32,5 32,0	32,1
2000	29,9 24,1 29,0	26,9
4000	38,3 43,9 45,6	41,4

R<sub>w</sub> 30 dB  
C, C<sub>tr</sub> -1, -2 dB

Country Netherlands  
Laboratory TU Eindhoven  
Report nr. 039  
Test year 2020



# Measurement of the sound insulation

Product  
Hipertec Wall 80 mm

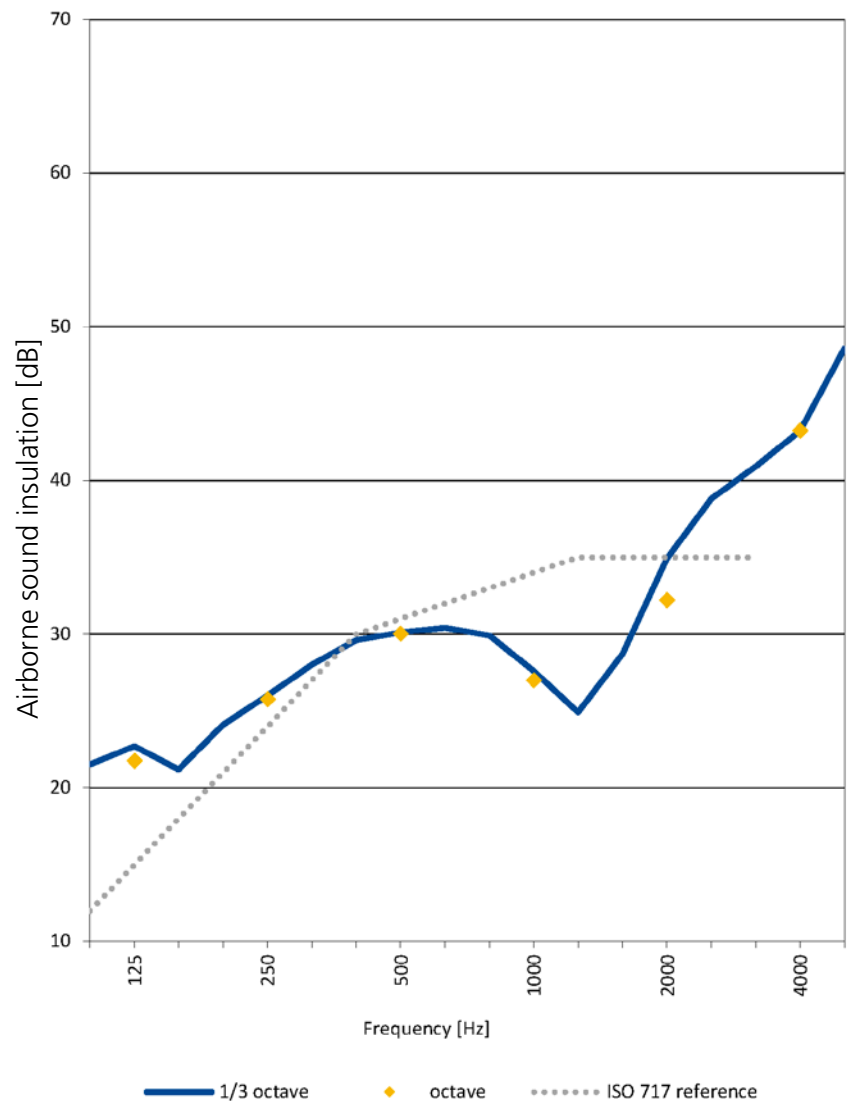
Surface 11,8 m<sup>2</sup>  
Thickness 80 mm  
Standard ISO 717-1:1997



Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	21,5	21,8
	22,7	
	21,2	
250	24,1	25,7
	26,0	
	28,0	
500	29,6	30,0
	30,1	
	30,4	
1000	29,9	27,0
	27,6	
	24,9	
2000	28,7	32,2
	34,9	
	38,8	
4000	40,9	43,2
	43,2	
	48,6	

R<sub>w</sub> 31 dB  
C, C<sub>tr</sub> -2, -3 dB

Country Germany  
Laboratory Fraunhofer  
Report nr. 019  
Test year 1997



# Measurement of the sound insulation

Product  
Hipertec Wall 100 mm

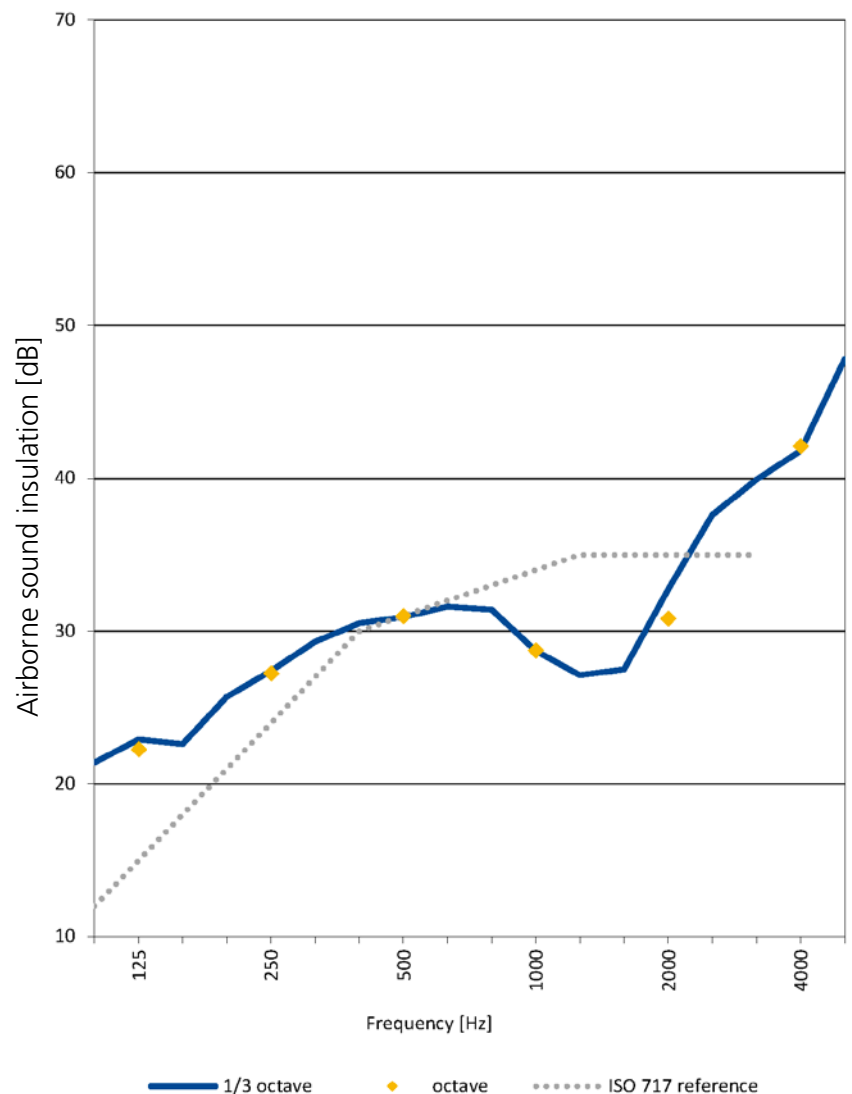
Surface 11,8 m<sup>2</sup>  
Thickness 100 mm  
Standard ISO 717-1:1997



Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	21,4	22,3
	22,9	
	22,6	
250	25,7	27,2
	27,4	
	29,3	
500	30,5	31,0
	30,9	
	31,6	
1000	31,4	28,7
	28,7	
	27,1	
2000	27,5	30,8
	32,7	
	37,6	
4000	39,9	42,1
	41,8	
	47,8	

R<sub>w</sub> 31 dB  
C<sub>v</sub>,Ctr -1,-2 dB

Country Germany  
Laboratory Fraunhofer  
Report nr. 021  
Test year 1997

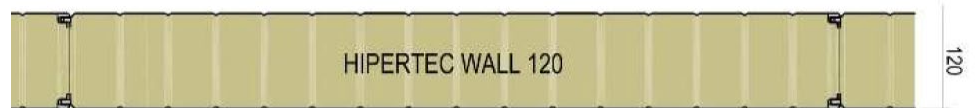


# Measurement of the sound insulation

## Product

Hipertec Wall 120 mm

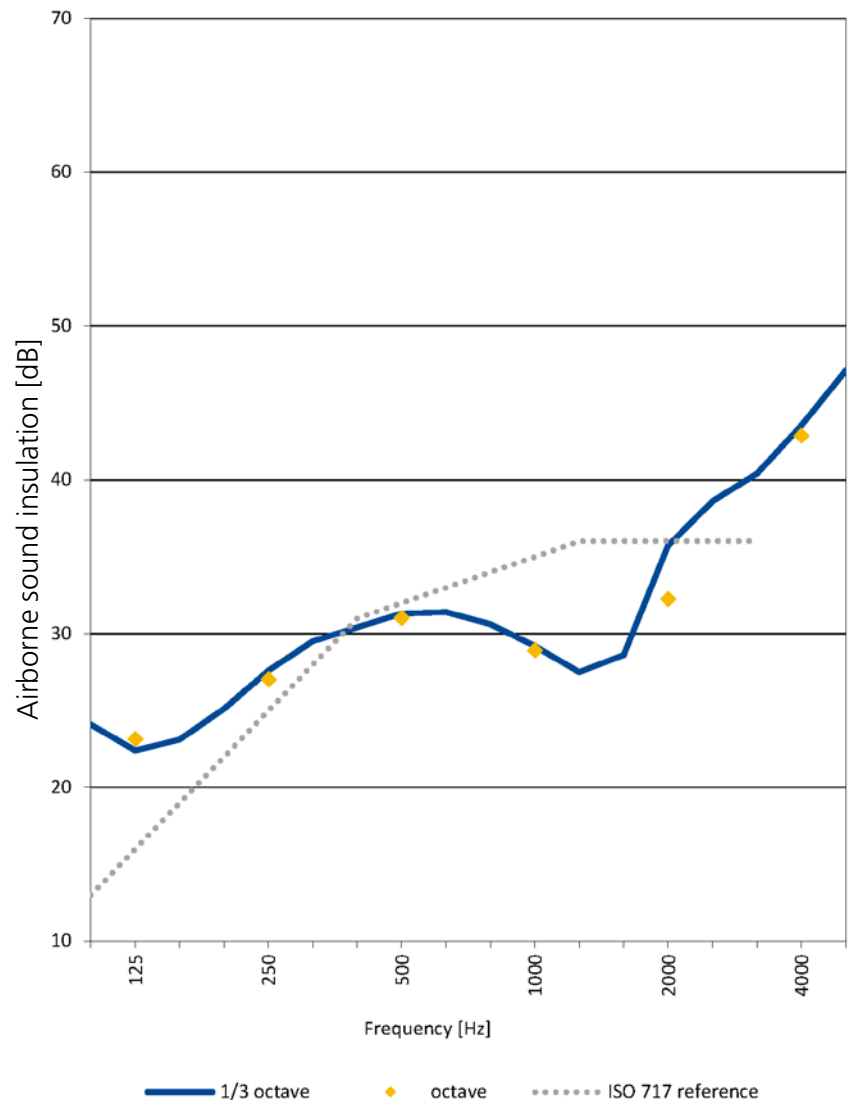
Surface 11,8 m<sup>2</sup>  
Thickness 120 mm  
Standard ISO 717-1:1997



Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	24,1	23,1
	22,4	
	23,1	
250	25,1	27,0
	27,6	
	29,5	
500	30,4	31,0
	31,3	
	31,4	
1000	30,6	28,9
	29,2	
	27,5	
2000	28,6	32,2
	35,7	
	38,6	
4000	40,4	42,9
	43,5	
	47,1	

R<sub>w</sub> 32 dB  
C, C<sub>tr</sub> -1, -3 dB

Country Germany  
Laboratory Fraunhofer  
Report nr. 022  
Test year 1997





# Measurement of the sound insulation

Product  
Hipertec Wall 150 mm

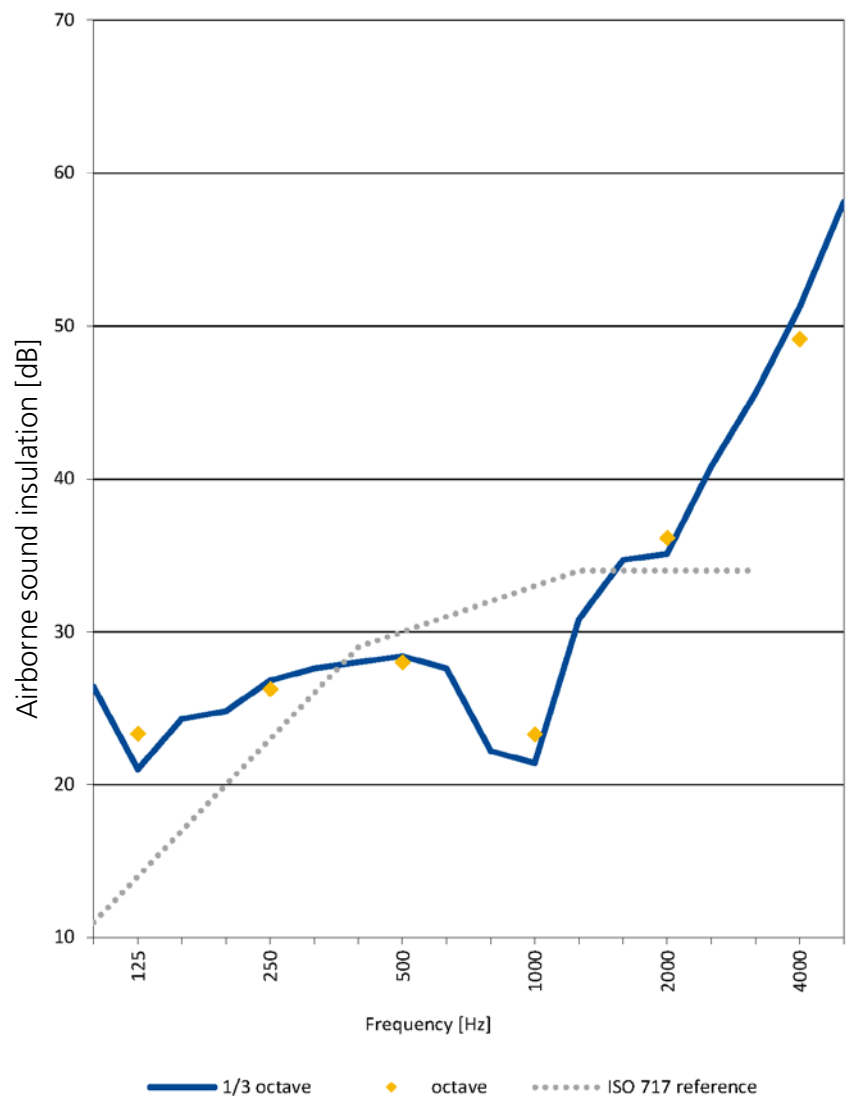
Surface 12,0 m<sup>2</sup>  
Thickness 150 mm  
Standard ISO 717-1:2013



Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	26,4	23,3
	21,0	
	24,3	
250	24,8	26,2
	26,8	
	27,6	
500	28,0	28,0
	28,4	
	27,6	
1000	22,2	23,3
	21,4	
	30,8	
2000	34,7	36,1
	35,1	
	40,8	
4000	45,6	49,1
	51,2	
	58,1	

R<sub>w</sub> 30 dB  
C, C<sub>tr</sub> -2, -4 dB

Country Netherlands  
Laboratory Peutz  
Report nr. 028  
Test year 2014



# Measurement of the sound insulation

## Product

Hipertec Roof Sound 50 mm

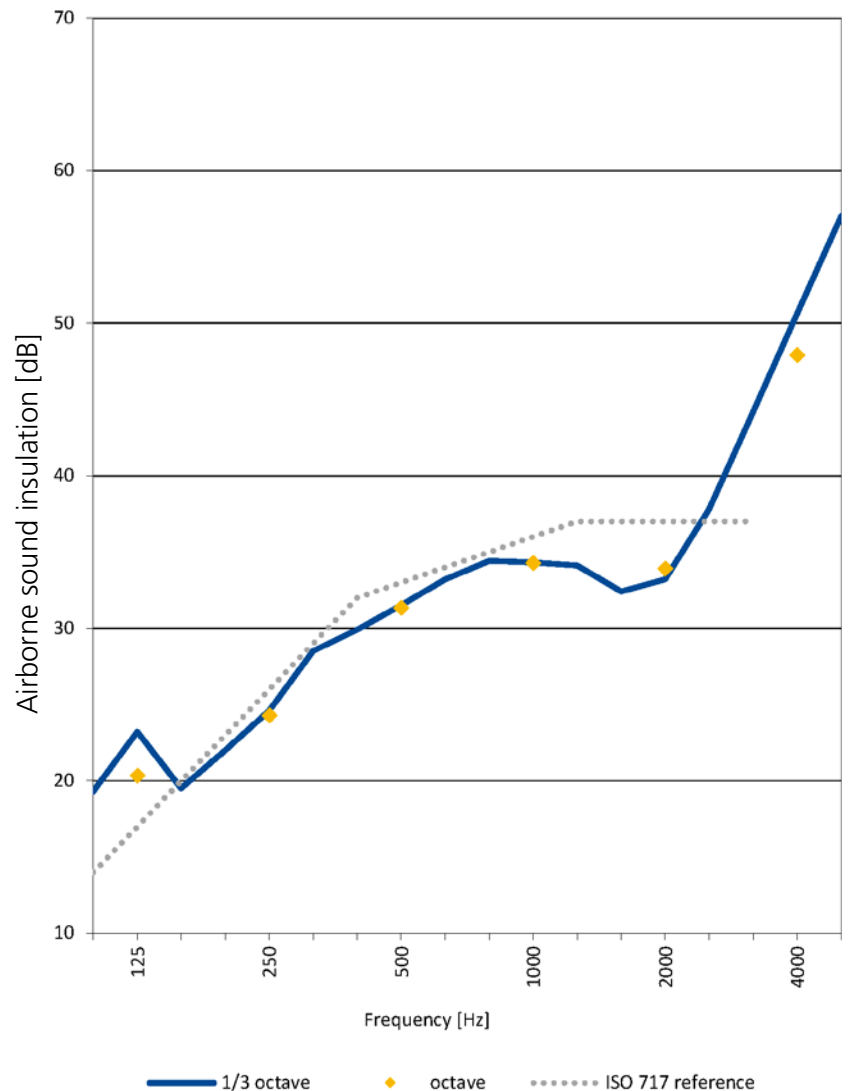
Surface 9,0 m<sup>2</sup>  
Thickness 50 mm  
Standard ISO 717-1:1997



Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	19,3	20,3
	23,2	
	19,5	
250	22,0	24,3
	24,6	
	28,5	
500	29,9	31,3
	31,5	
	33,2	
1000	34,4	34,3
	34,3	
	34,1	
2000	32,4	33,9
	33,2	
	37,8	
4000	44,2	47,9
	50,6	
	57,0	

R<sub>w</sub> 33 dB  
C, C<sub>tr</sub> -, - dB

Country Italy  
Laboratory Giordano  
Report nr. 053  
Test year 1997



# Measurement of the sound insulation

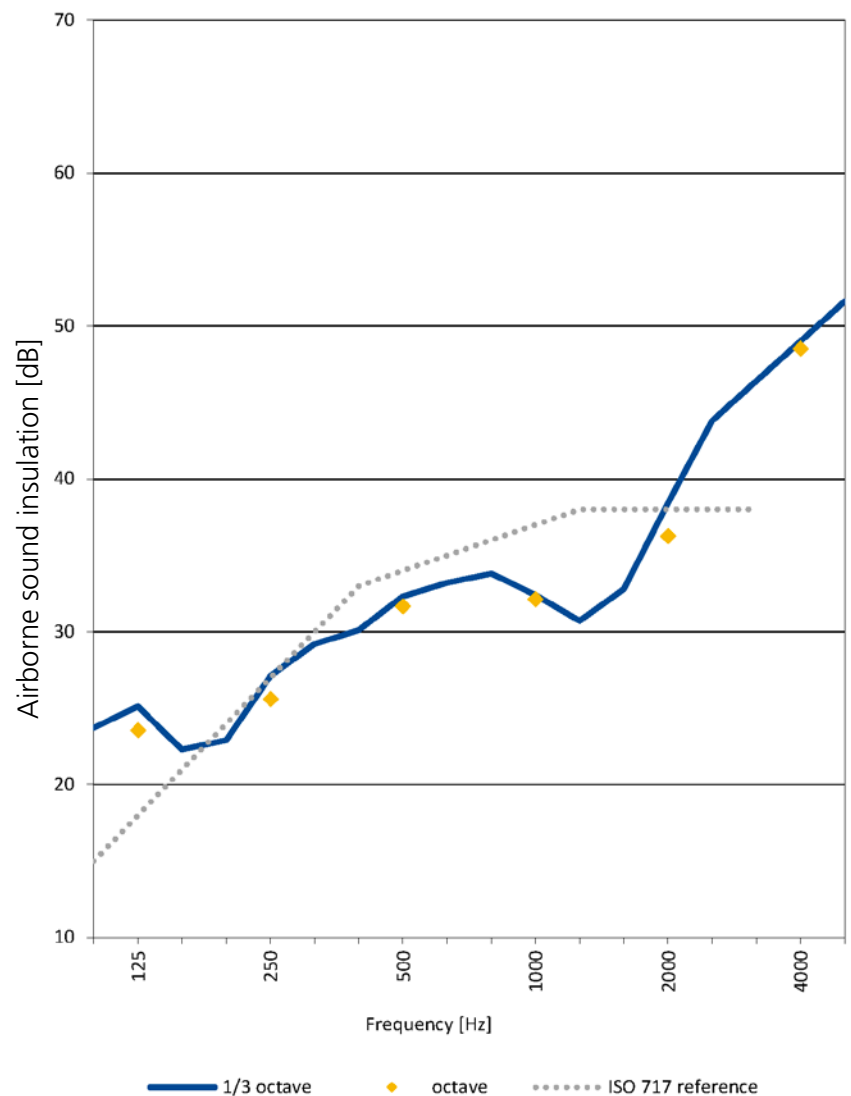
## Product

Hipertec Roof Sound 80 mm

Surface 8,97 m<sup>2</sup>  
 Thickness 80 mm  
 Standard ISO 717-1:1997

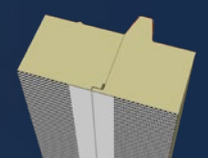


Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	23,7	23,6
	25,1	
	22,3	
250	22,9	25,6
	27,1	
	29,2	
500	30,1	31,7
	32,3	
	33,2	
1000	33,8	32,1
	32,4	
	30,7	
2000	32,8	36,3
	38,4	
	43,8	
4000	46,4	48,5
	49,0	
	51,6	



R<sub>w</sub> 34 dB  
 C<sub>v</sub>,Ctr -,- dB

Country Italy  
 Laboratory Giordano  
 Report nr. 015  
 Test year 1997



# Measurement of the sound insulation

## Product

Hipertec Roof Sound 100 mm

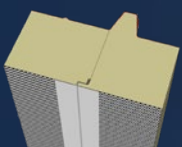
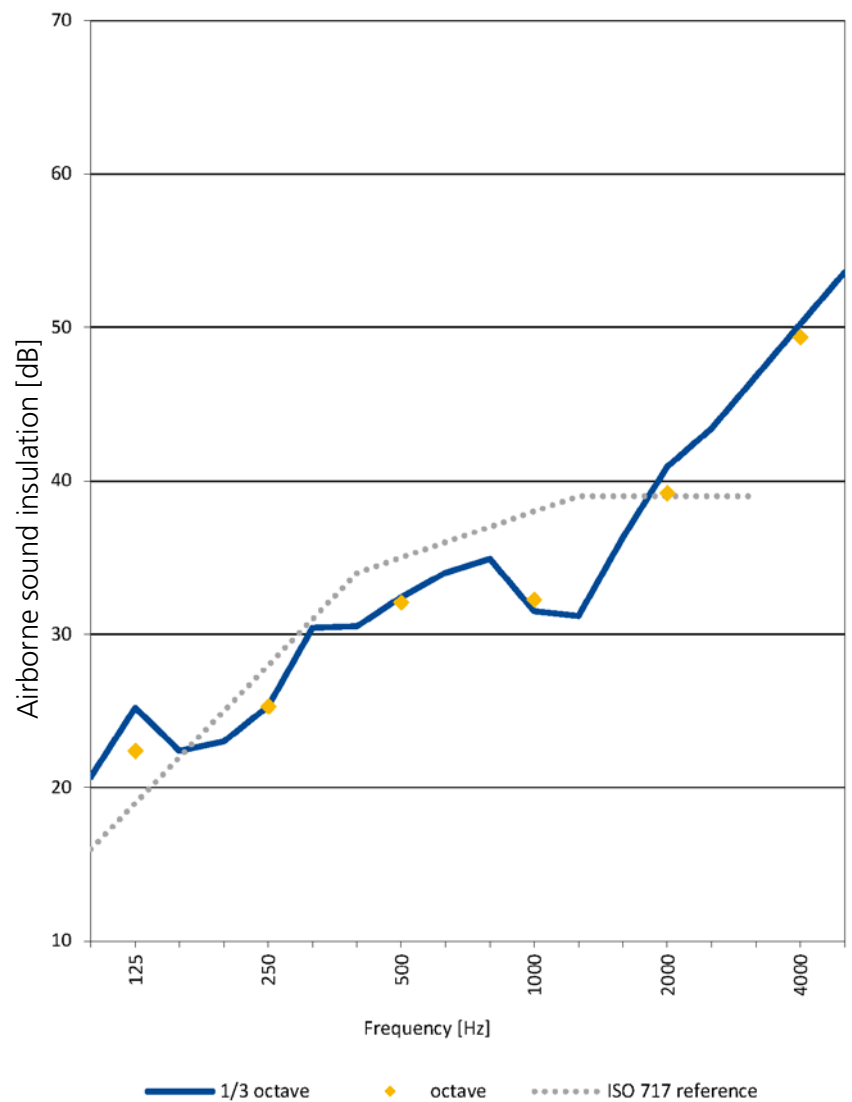
Surface 8,97 m<sup>2</sup>  
 Thickness 100 mm  
 Standard ISO 717-1:1997



Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	20,7 25,2 22,4	22,4
250	23,0 25,3 30,4	25,3
500	30,5 32,4 34,0	32,1
1000	34,9 31,5 31,2	32,2
2000	36,3 40,9 43,4	39,2
4000	46,8 50,2 53,6	49,4

R<sub>w</sub> 35 dB  
 C, C<sub>tr</sub> -, - dB

Country Italy  
 Laboratory Giordano  
 Report nr. 016  
 Test year 1997



# Measurement of the sound insulation

Product  
Hipertec Roof 50 mm

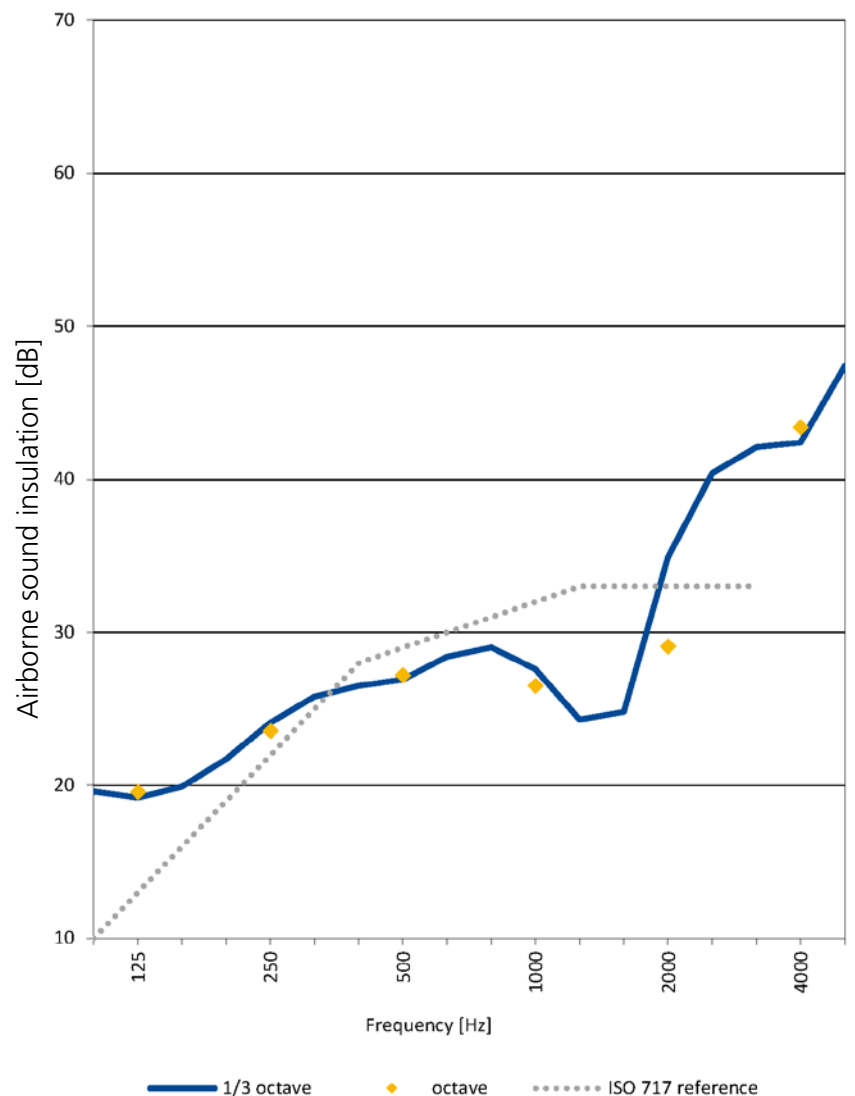
Surface 11,8 m<sup>2</sup>  
Thickness 50 mm  
Standard ISO 717-1:1997



Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	19,6	19,6
	19,2	
	19,9	
250	21,7	23,5
	24,1	
	25,8	
500	26,5	27,2
	26,9	
	28,4	
1000	29,0	26,5
	27,6	
	24,3	
2000	24,8	29,1
	34,9	
	40,4	
4000	42,1	43,4
	42,4	
	47,4	

R<sub>w</sub> 29 dB  
C<sub>tr</sub> -1,-3 dB

Country Germany  
Laboratory Fraunhofer  
Report nr. 008  
Test year 1997



# Measurement of the sound insulation

Product  
Hipertec Roof 80 mm

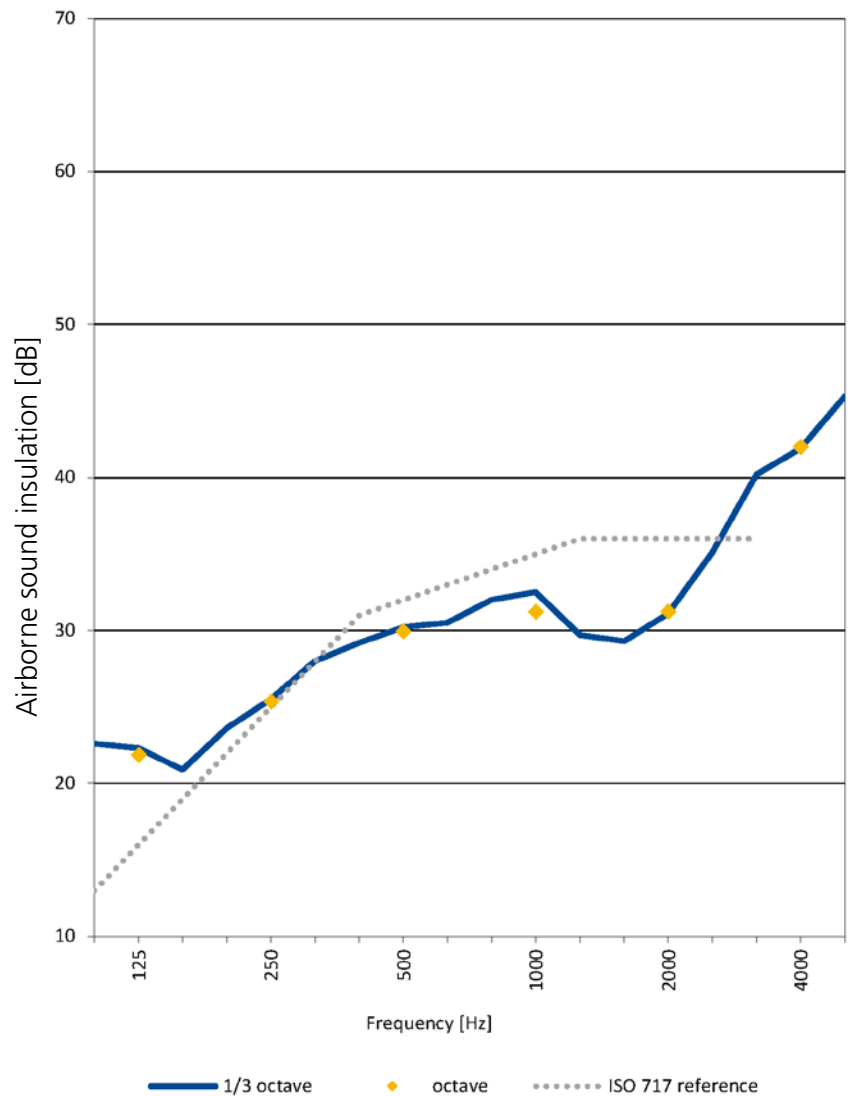
Surface 11,8 m<sup>2</sup>  
Thickness 80 mm  
Standard ISO 717-1:1997



Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	22,6	21,9
	22,3	
	20,9	
250	23,6	25,3
	25,5	
	28,0	
500	29,2	29,9
	30,2	
	30,5	
1000	32,0	31,2
	32,5	
	29,7	
2000	29,3	31,2
	31,1	
	35,1	
4000	40,2	42,0
	41,9	
	45,3	

R<sub>w</sub> 32 dB  
C, C<sub>tr</sub> -1, -3 dB

Country Germany  
Laboratory Fraunhofer  
Report nr. 010  
Test year 1997



# Measurement of the sound insulation

Product  
Hipertec Roof 100 mm

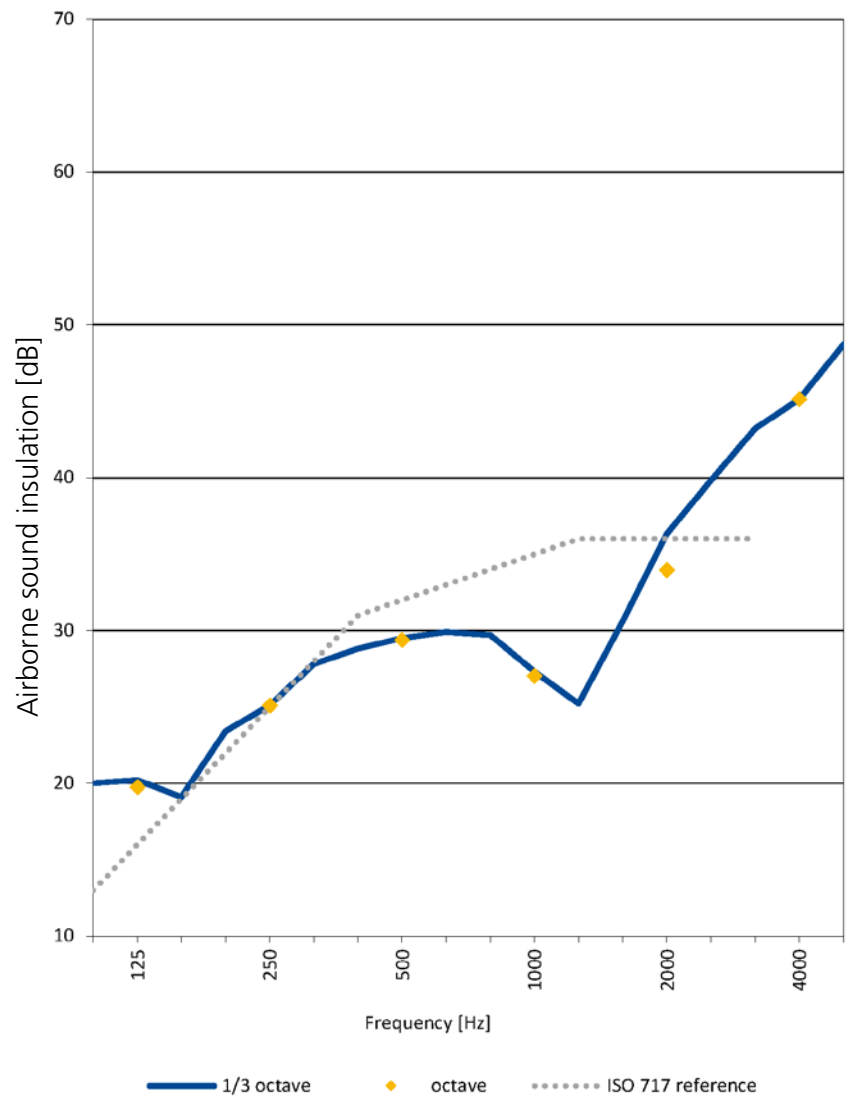
Surface 11,8 m<sup>2</sup>  
Thickness 100 mm  
Standard ISO 717-1:1997



Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	20,0	19,7
	20,2	
	19,1	
250	23,4	25,1
	25,1	
	27,8	
500	28,8	29,4
	29,5	
	29,9	
1000	29,7	27,0
	27,3	
	25,2	
2000	30,6	33,9
	36,3	
	39,8	
4000	43,2	45,1
	45,1	
	48,7	

R<sub>w</sub> 32 dB  
C, C<sub>tr</sub> -2,4 dB

Country Germany  
Laboratory Fraunhofer  
Report nr. 012  
Test year 1997



# Measurement of the sound insulation

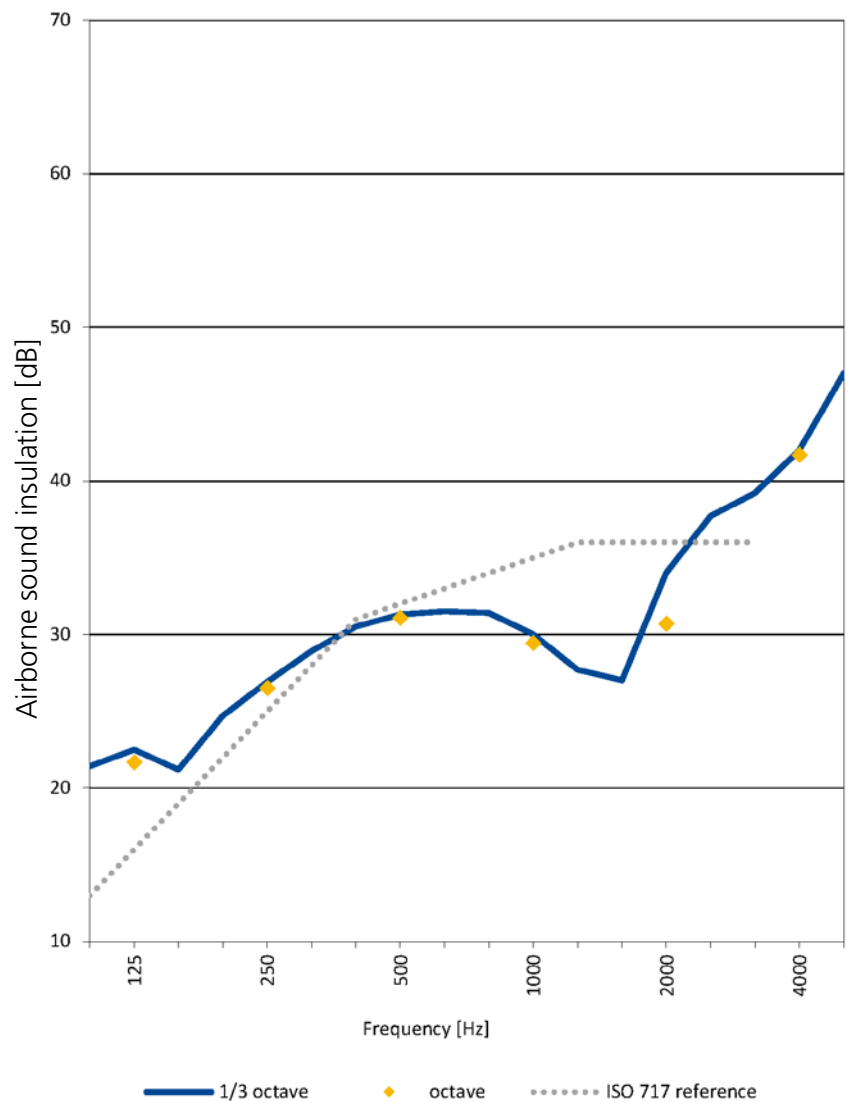
## Product

Hipertec Roof 120 mm

Surface 11,8 m<sup>2</sup>  
 Thickness 120 mm  
 Standard ISO 717-1:1997



Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	21,4	21,7
	22,5	
	21,2	
250	24,7	26,5
	26,9	
	28,9	
500	30,5	31,1
	31,3	
	31,5	
1000	31,4	29,4
	30,0	
	27,7	
2000	27,0	30,7
	34,0	
	37,7	
4000	39,2	41,7
	42,0	
	47,0	



R<sub>w</sub> 32 dB  
 C, C<sub>tr</sub> -2, -3 dB

Country Germany  
 Laboratory Fraunhofer  
 Report nr. 014  
 Test year 1997



# Measurement of the sound insulation

## System

Hipertec Wall 60 mm

Cavity air 60 mm

Hipertec Wall 60 mm

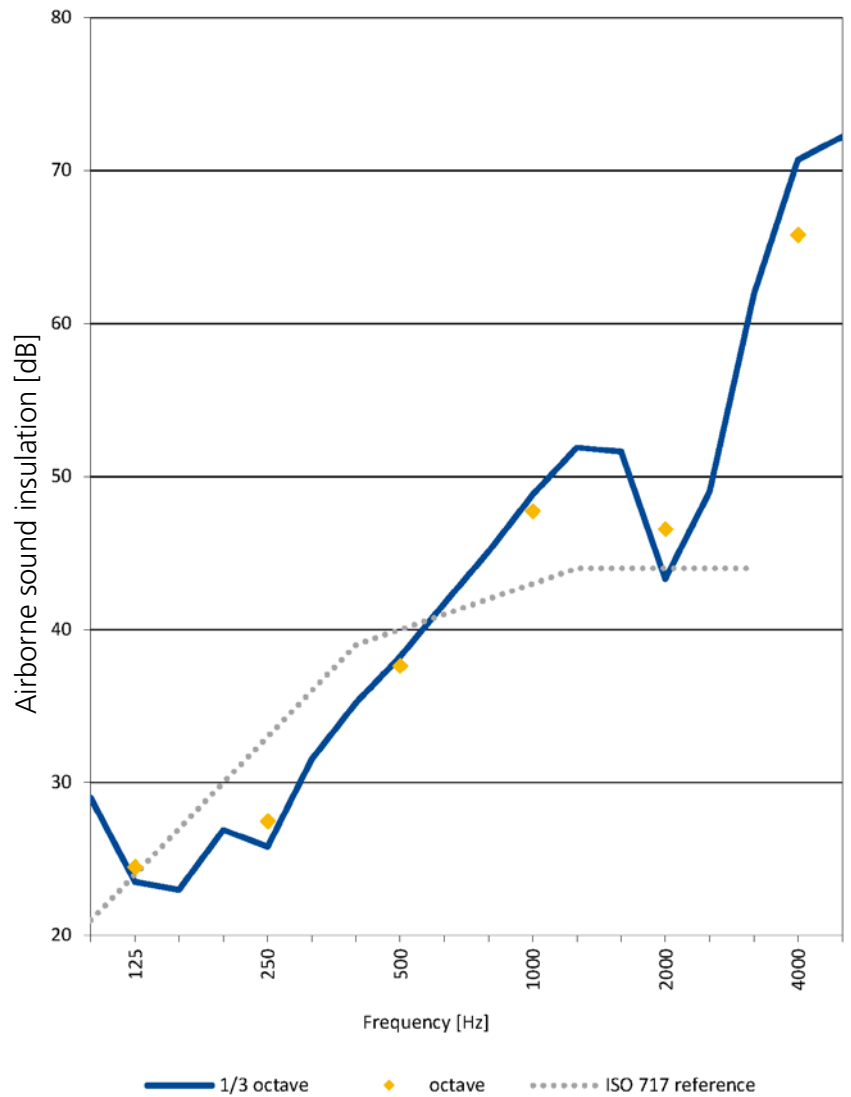
Surface 10,0 m<sup>2</sup>  
 Thickness 180 mm  
 Standard ISO 717-1:2013



Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	29,0	24,5
	23,5	
	23,0	
250	26,9	27,5
	25,8	
	31,5	
500	35,2	37,6
	38,2	
	41,7	
1000	45,1	47,7
	48,8	
	51,9	
2000	51,6	46,6
	43,3	
	49,0	
4000	61,9	65,8
	70,7	
	72,2	

R<sub>w</sub> 40 dB  
 C, C<sub>tr</sub> -1,5 dB

Country Netherlands  
 Laboratory TU Eindhoven  
 Report nr. 039  
 Test year 2020



# Measurement of the sound insulation

## System

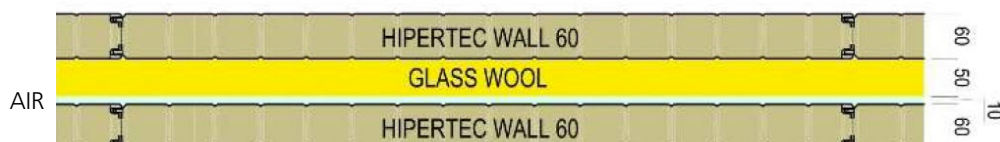
Hipertec Wall 60 mm

Glass wool 50 mm

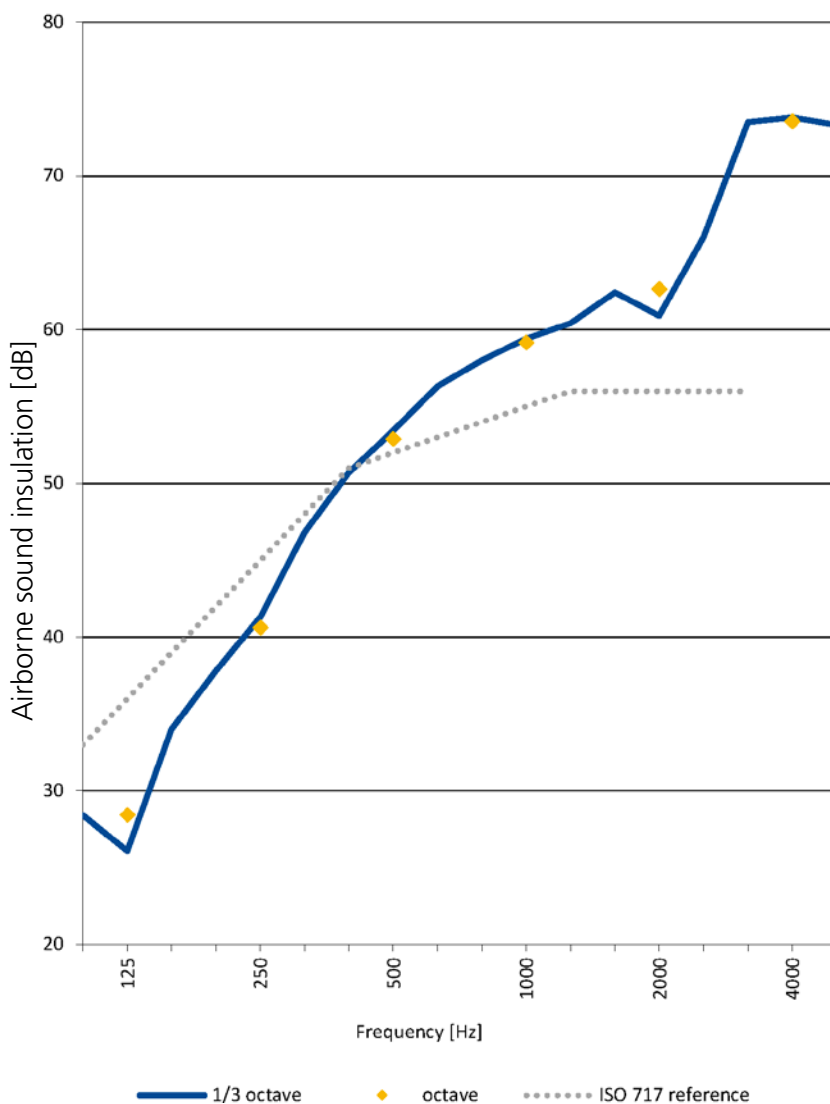
Cavity air 10 mm

Hipertec Wall 60 mm

Surface 10,0 m<sup>2</sup>  
 Thickness 180 mm  
 Standard ISO 717-1:2013



Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	28,4	28,4
	26,1	
	34,0	
250	37,8	40,6
	41,3	
	46,8	
500	50,7	52,9
	53,4	
	56,3	
1000	58,0	59,2
	59,4	
	60,4	
2000	62,4	62,6
	60,9	
	66,0	
4000	73,5	73,5
	73,8	
	73,3	



R<sub>w</sub> 52 dB  
 C, C<sub>tr</sub> -3,9 dB

Country Netherlands  
 Laboratory TU Eindhoven  
 Report nr. 039  
 Test year 2020



# Measurement of the sound insulation

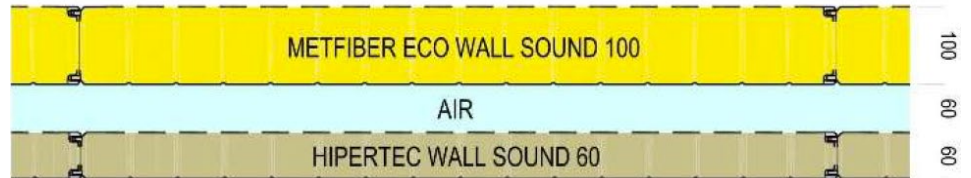
## System

Metfiber Eco Wall Sound 100 mm (perforation towards room)

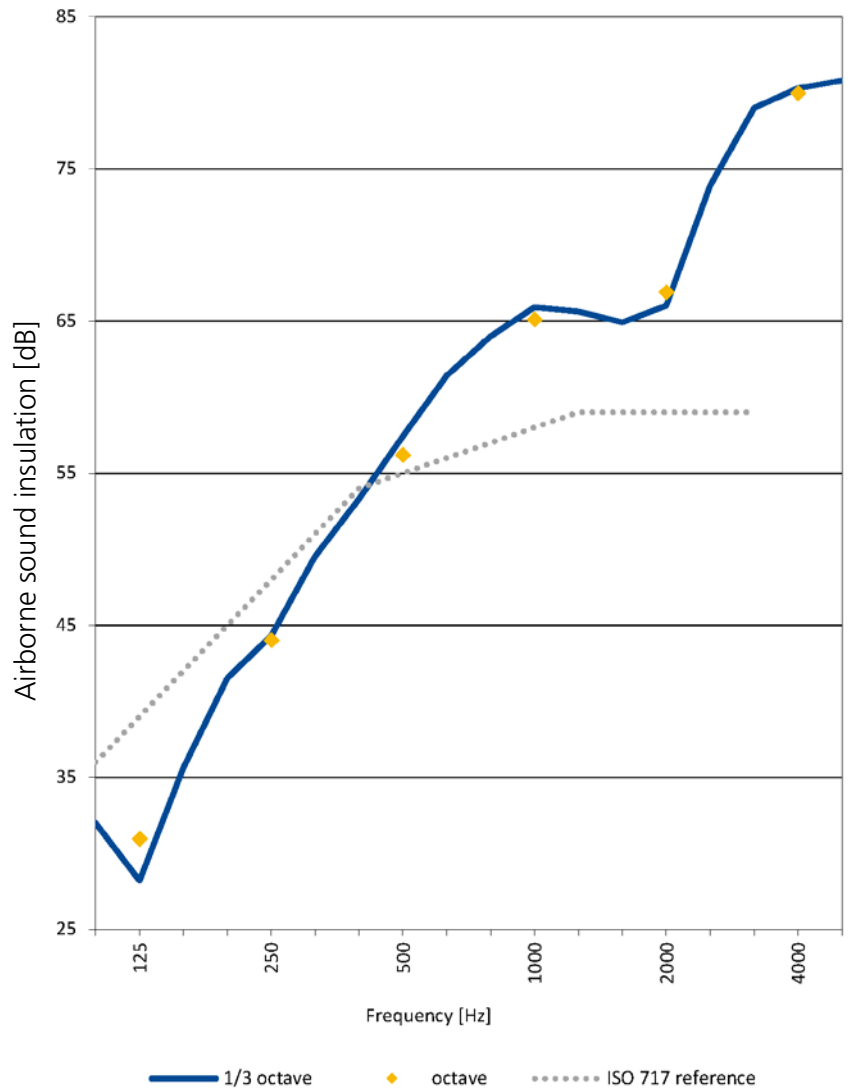
Cavity air 60 mm

Hipertec Wall Sound 60 mm (perforation towards cavity)

Surface 10,0 m<sup>2</sup>  
 Thickness 220 mm  
 Standard ISO 717-1:2013

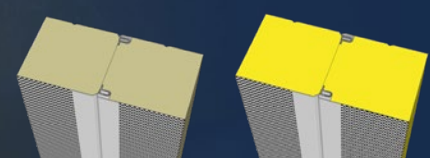


Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	32,0	30,9
	28,2	
	35,6	
250	41,5	44,0
	44,3	
	49,5	
500	53,3	56,2
	57,4	
	61,4	
1000	64,0	65,1
	65,9	
	65,6	
2000	64,9	66,9
	66,0	
	73,9	
4000	79,0	80,0
	80,3	
	80,8	



R<sub>w</sub> 55 dB  
 C, C<sub>tr</sub> -4, -10 dB

Country Netherlands  
 Laboratory TU Eindhoven  
 Report nr. 039  
 Test year 2020



# Measurement of the sound insulation

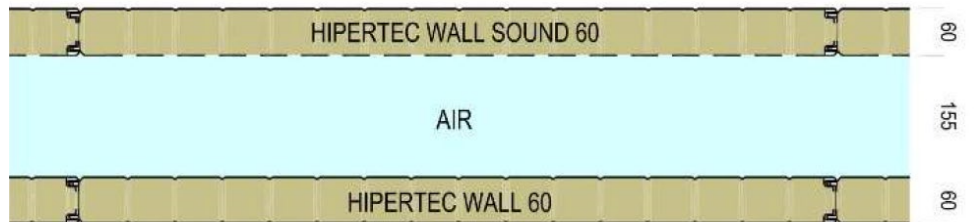
## System

Hipertec Wall Sound 60 mm (perforation towards cavity)

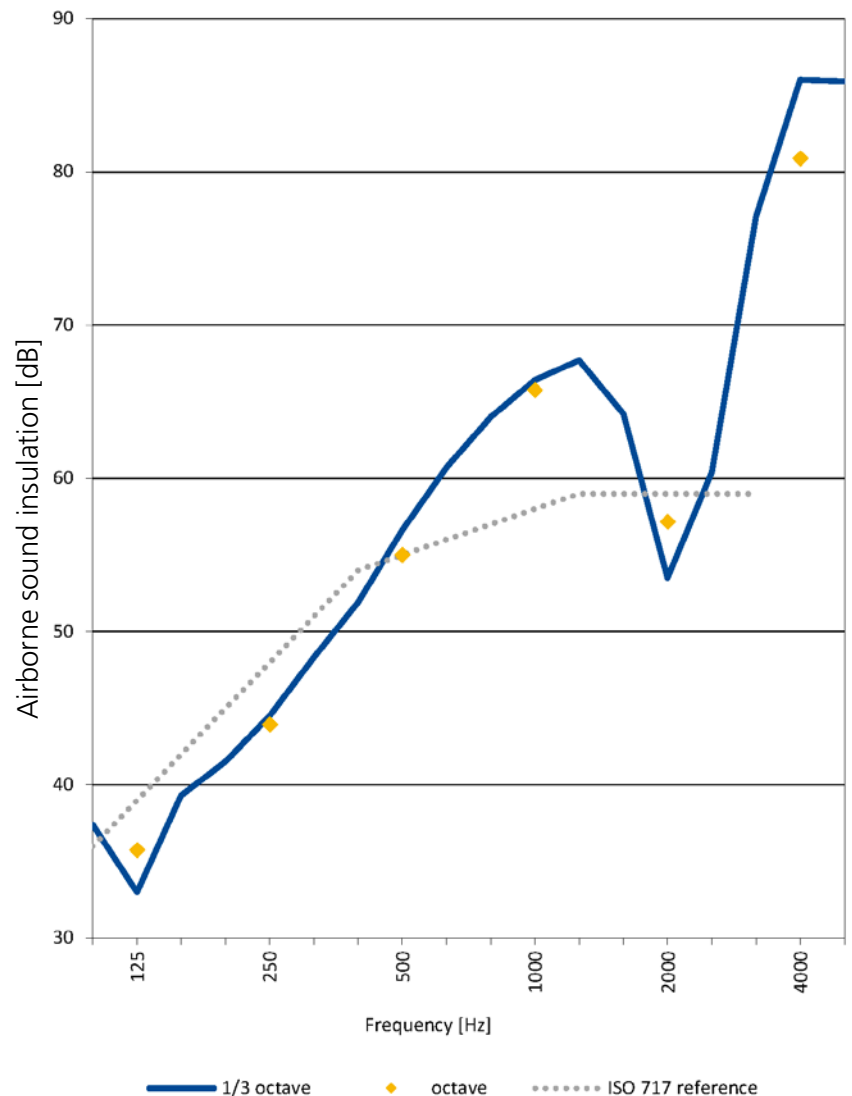
Cavity air 155 mm

Hipertec Wall 60 mm

Surface 10,0 m<sup>2</sup>  
 Thickness 275 mm  
 Standard ISO 717-1:2013



Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	37,4 33,0 39,3	35,7
250	41,5 44,5 48,3	43,9
500	51,9 56,6 60,7	55,0
1000	64,0 66,4 67,7	65,8
2000	64,2 53,5 60,4	57,2
4000	77,1 86,0 85,9	80,9



R<sub>w</sub> 55 dB  
 C, C<sub>tr</sub> -2,-6 dB

Country Netherlands  
 Laboratory TU Eindhoven  
 Report nr. 039  
 Test year 2020



# Measurement of the sound insulation

## System

Hipertec Wall Sound 120 mm (perforation towards room)

2x plasterboard 12,5 mm

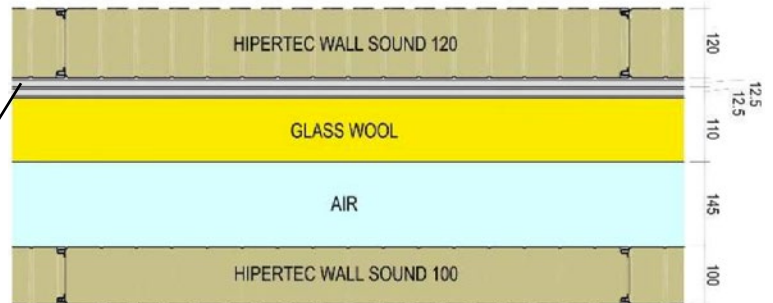
Glass wool 110 mm

Cavity air 145 mm

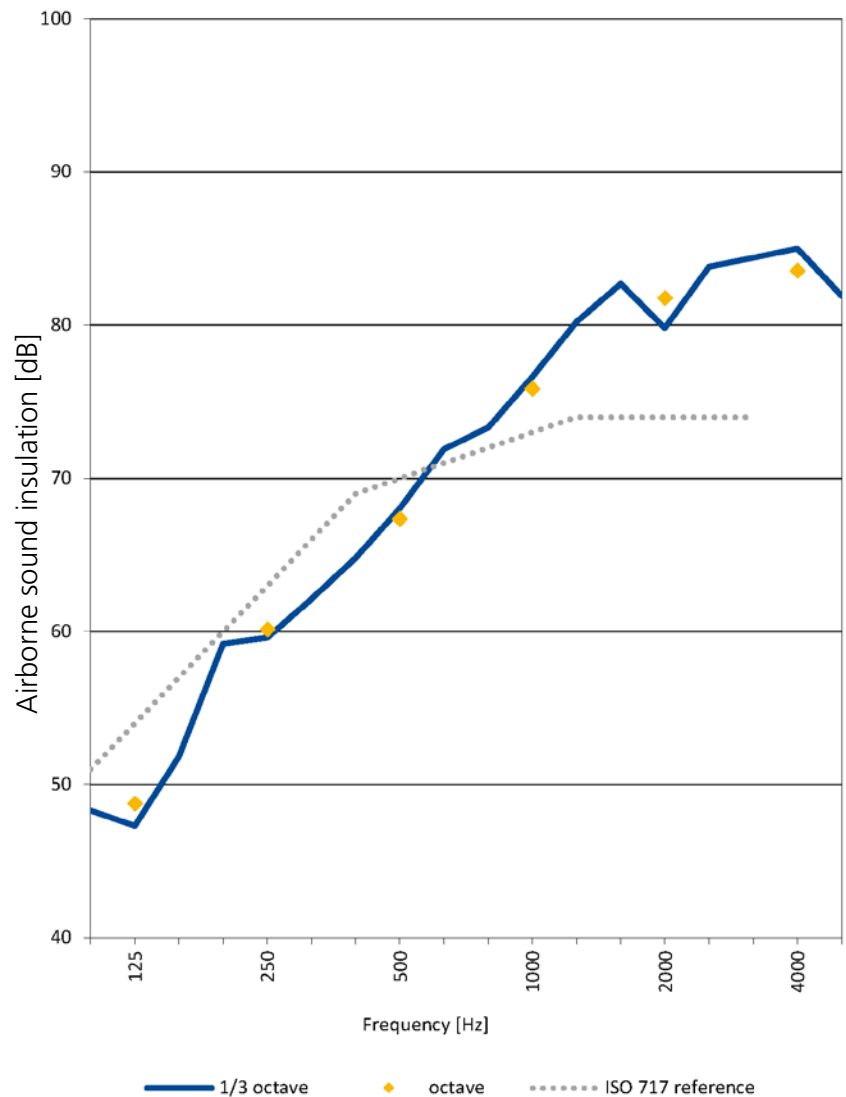
Hipertec Wall Sound 100 mm (perforation towards room)

Surface 10,0 m<sup>2</sup>  
 Thickness 500 mm  
 Standard ISO 717-1:2013

2X PLASTERBOARD



Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	48,3	48,7
	47,3	
	51,8	
250	59,2	60,1
	59,6	
	62,1	
500	64,8	67,3
	68,0	
	71,9	
1000	73,3	75,8
	76,6	
	80,2	
2000	82,7	81,8
	79,8	
	83,8	
4000	84,4	83,5
	85,0	
	81,9	



R<sub>w</sub> 70 dB  
 C<sub>,Ctr</sub> -2,-8 dB

Country Netherlands  
 Laboratory TU Eindhoven  
 Report nr. 039  
 Test year 2020

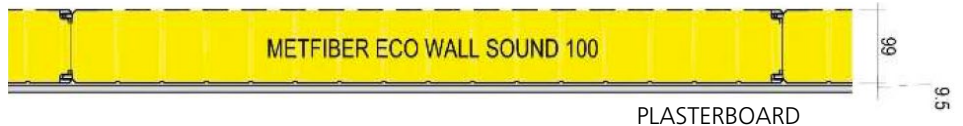
# Measurement of the sound insulation

## System

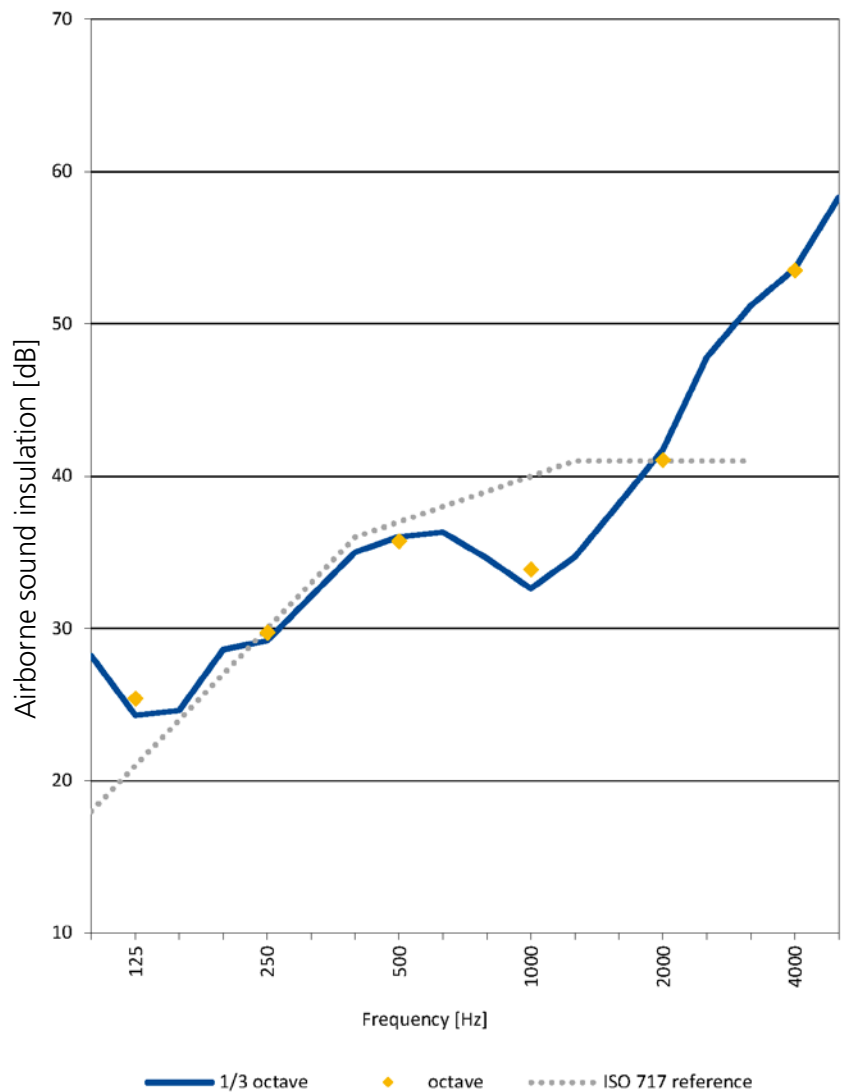
Metfiber Eco Wall Sound 100 mm (perforation towards room)

Plasterboard 9,5 mm

Surface 10,0 m<sup>2</sup>  
 Thickness 110 mm  
 Standard ISO 717-1:2013

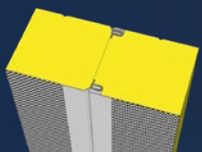


Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	28,2	25,4
	24,3	
	24,6	
250	28,6	29,7
	29,2	
	32,1	
500	35,0	35,7
	36,0	
	36,3	
1000	34,6	33,9
	32,6	
	34,7	
2000	38,2	41,1
	41,7	
	47,8	
4000	51,2	53,5
	53,6	
	58,3	



R<sub>w</sub> 37 dB  
 C, C<sub>tr</sub> -1, -3 dB

Country Netherlands  
 Laboratory TU Eindhoven  
 Report nr. 039  
 Test year 2020



# Measurement of the sound insulation

## System

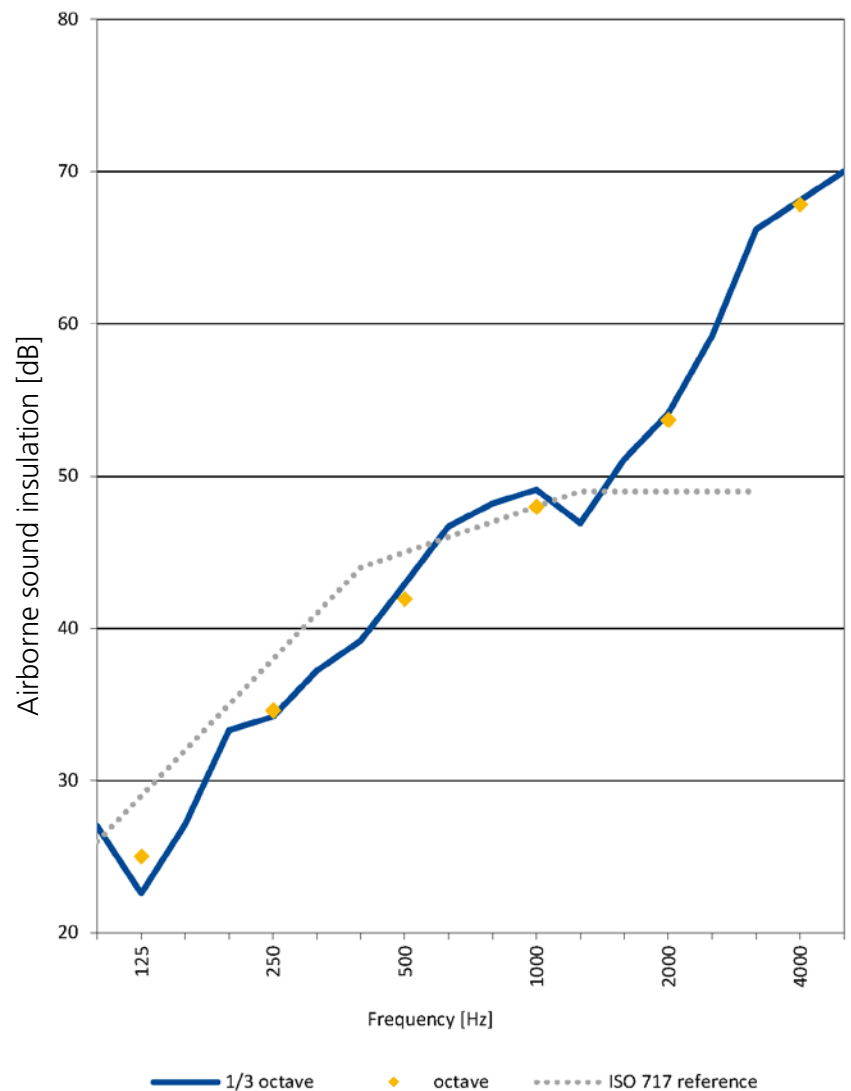
Hipertec Wall Sound 60 mm (perforation towards cavity)

MonoWall 60 mm

Surface 10,0 m<sup>2</sup>  
 Thickness 120 mm  
 Standard ISO 717-1:2013



Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	27,0	25,0
	22,6	
	27,1	
250	33,3	34,6
	34,2	
	37,2	
500	39,2	41,9
	42,9	
	46,7	
1000	48,2	48,0
	49,1	
	46,9	
2000	51,1	53,7
	54,1	
	59,2	
4000	66,2	67,8
	68,1	
	70,0	



R<sub>w</sub> 45 dB  
 C<sub>v</sub> C<sub>tr</sub> -2,-7 dB

Country Netherlands  
 Laboratory TU Eindhoven  
 Report nr. 039  
 Test year 2020



# Measurement of the sound insulation

Product  
Monowall 60 mm

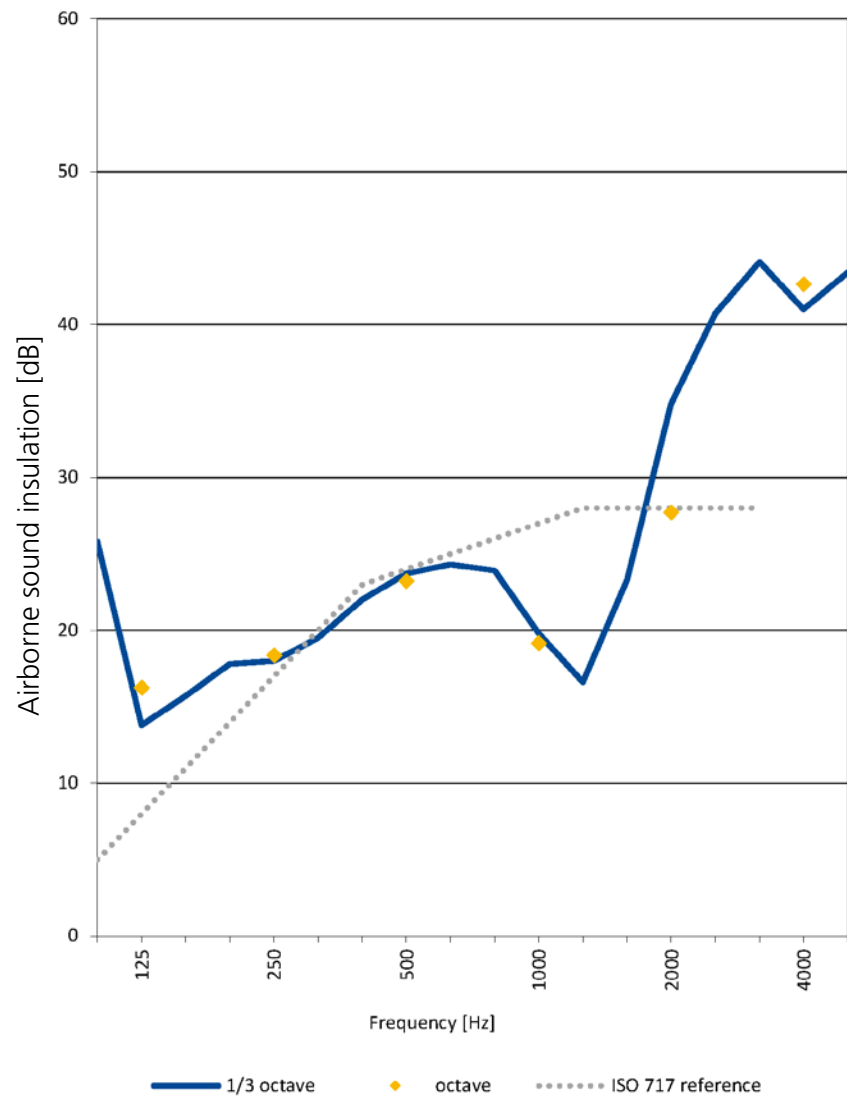
Surface 10,0 m<sup>2</sup>  
Thickness 60 mm  
Standard ISO 717-1:2013



Freq. [Hz]	R [dB]	
	1/3 oct.	oct.
125	25,8	16,2
	13,8	
	15,7	
250	17,8	18,4
	18,0	
	19,5	
500	22,0	23,2
	23,7	
	24,3	
1000	23,9	19,2
	19,8	
	16,6	
2000	23,3	27,7
	34,8	
	40,7	
4000	44,1	42,6
	41,0	
	43,4	

R<sub>w</sub> 24 dB  
C, C<sub>tr</sub> -2,-3 dB

Country Netherlands  
Laboratory TU Eindhoven  
Report nr. 039  
Test year 2020





In 1961 Metecno was founded under the name "Metallotecnica Italiana" a producer of conventional multi-layer wall-and roof systems. Back then, the common successive installation of an internal sheet, spacer, insulation layer and external sheet directly on the building showed major disadvantages regarding duration, cost and constant quality of this installation procedure. In 1965, after intense research for the development of a prefabricated insulated element, the world's first fully automated continuous production line for sandwich panels created a completely new way to build. The massive success of this product led to increasing demand, therefore facilitating geographic expansion with new production lines, first in Europe succeeded by America and Asia.

Profound expertise gathered over decades for thermal insulation, fire protection and sound insulation of sandwich panels led to specialization into certain fields of competence. As Metecno Sound division we have specialized in solutions for complex acoustic requirements.

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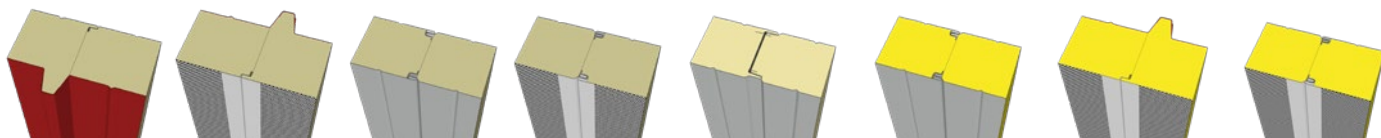


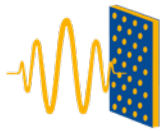
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