



PREFAB ACOUSTIC SOLUTIONS

OVERVIEW SOUND ABSORPTION



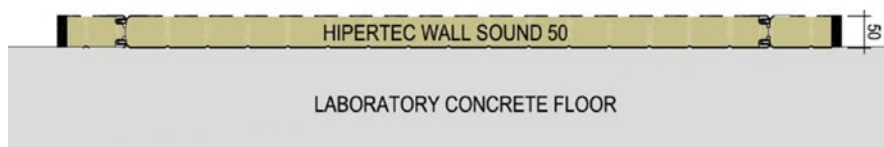
Metecno Sound Website

Measurement of the sound absorption

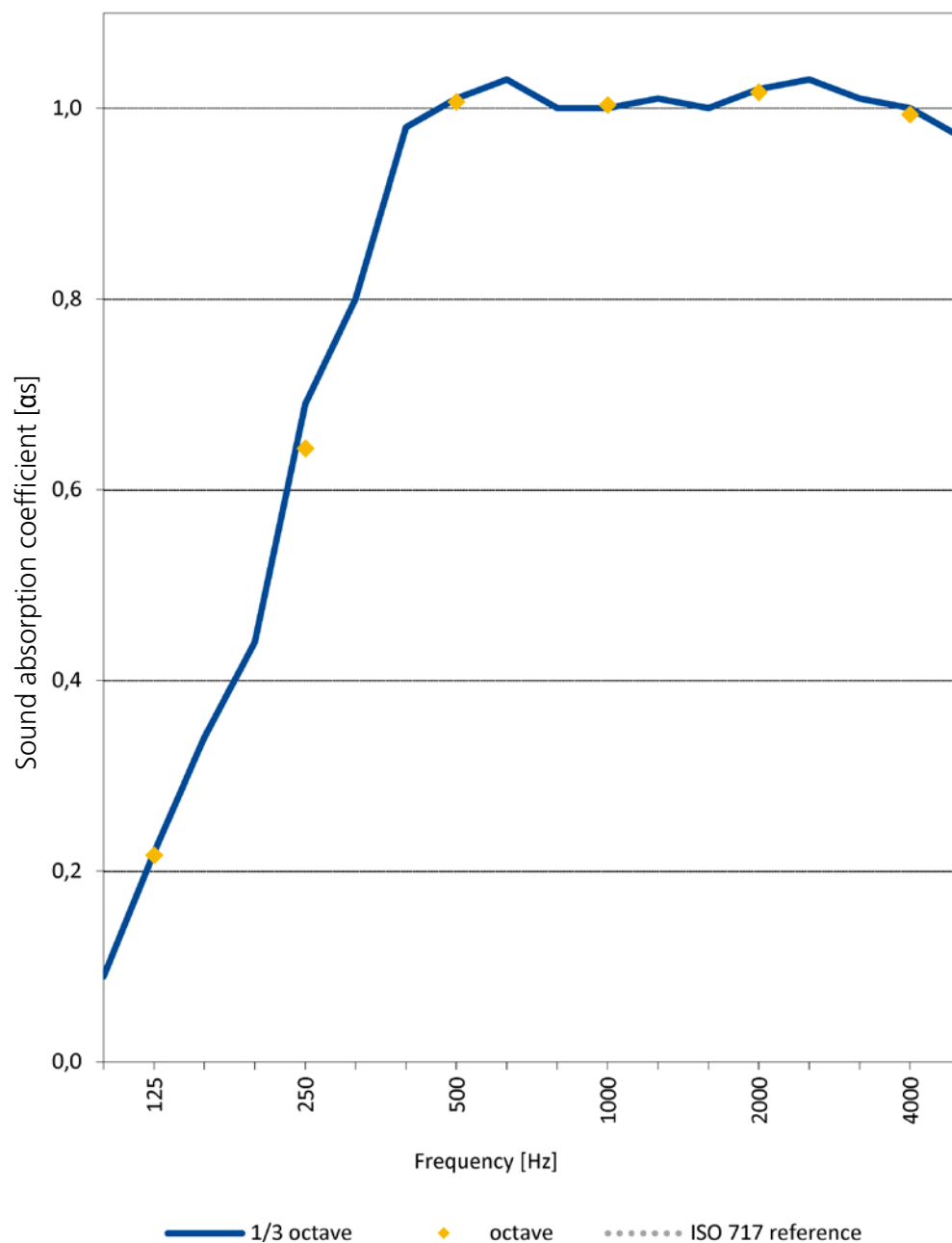
Product

Hipertec Wall Sound 50 mm

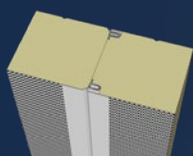
Surface 12,0 m²
Thickness 50 mm
Standard ISO354:2003



Freq. [Hz]	α		
	1/3 oct. oct.		
125	0,09 0,22 0,34	0,22	
250	0,44 0,69 0,80	0,64	
500	0,98 1,01 1,03	1,01	
1000	1,00 1,00 1,01	1,00	
2000	1,00 1,02 1,03	1,02	
4000	1,01 1,00 0,97	0,99	



α_w 0,95
NRC 0,95
Country Netherlands
Laboratory Peutz
Report nr. 048
Test year 2015

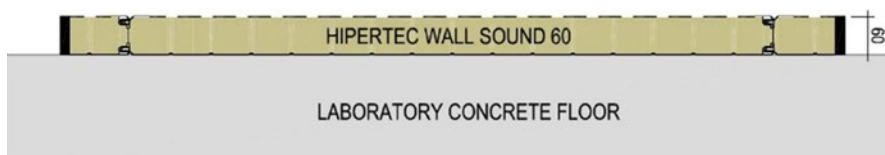


Measurement of the sound absorption

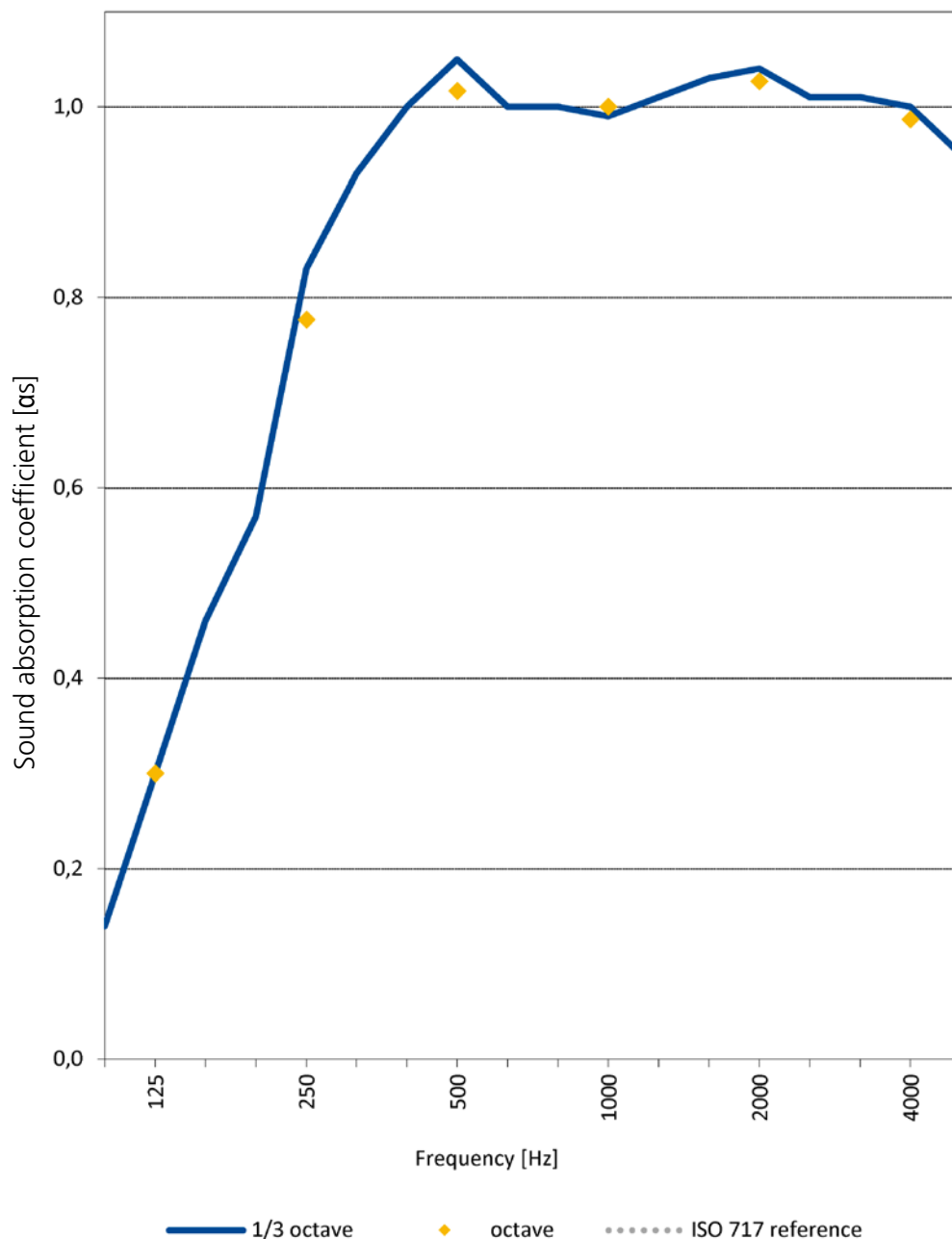
Product

Hipertec Wall Sound 60 mm

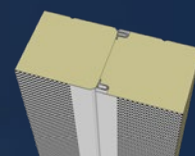
Surface 12,0 m²
Thickness 60 mm
Standard ISO354:2003



Freq. [Hz]	α	
	1/3 oct. oct.	
125	0,14 0,30 0,46	0,30
250	0,57 0,83 0,93	0,78
500	1,00 1,05 1,00	1,02
1000	1,00 0,99 1,01	1,00
2000	1,03 1,04 1,01	1,03
4000	1,01 1,00 0,95	0,99



α_w 1,00
NRC 1,00
Country Netherlands
Laboratory Peutz
Report nr. 047
Test year 2015

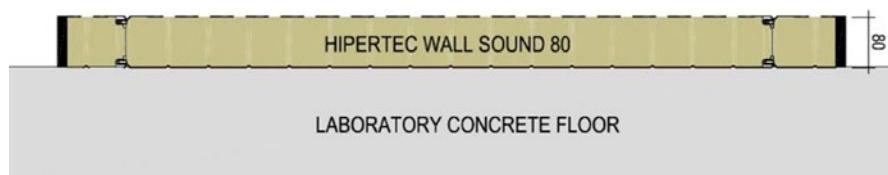


Measurement of the sound absorption

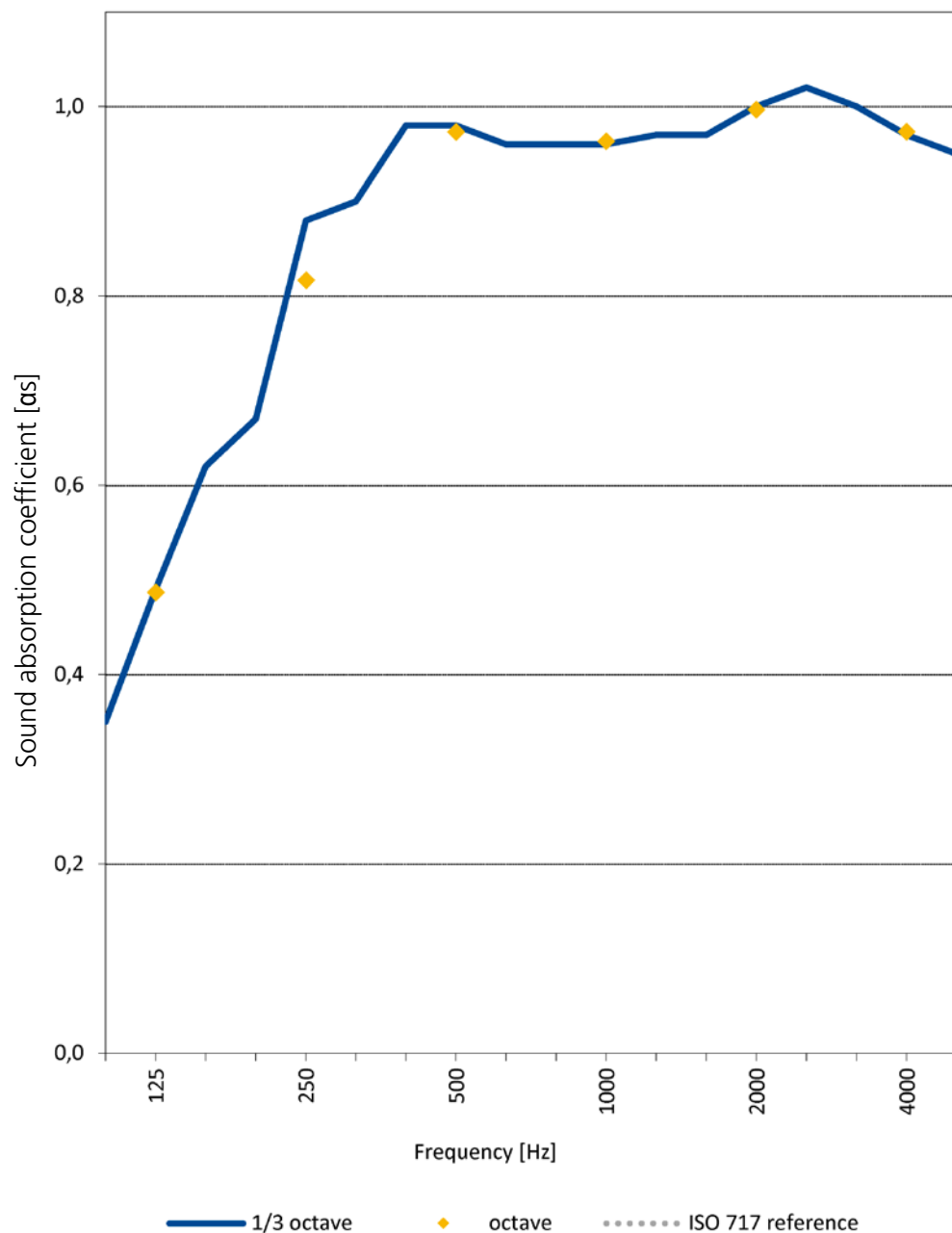
Product

Hipertec Wall Sound 80 mm

Surface 12,0 m²
Thickness 80 mm
Standard ISO354:2003



Freq. [Hz]	α		
	1/3 oct. oct.		
125	0,35 0,49 0,62	0,49	
250	0,67 0,88 0,90	0,82	
500	0,98 0,98 0,96	0,97	
1000	0,96 0,96 0,97	0,96	
2000	0,97 1,00 1,02	1,00	
4000	1,00 0,97 0,95	0,97	

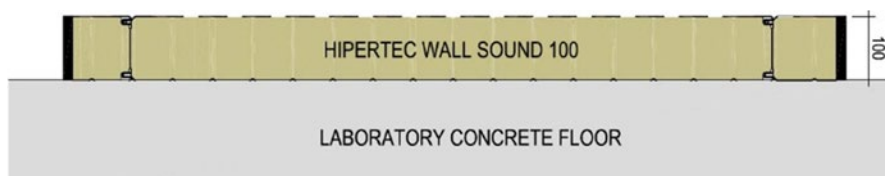


α_w 1,00
NRC 0,95
Country Netherlands
Laboratory Peutz
Report nr. 045
Test year 2015

Measurement of the sound absorption

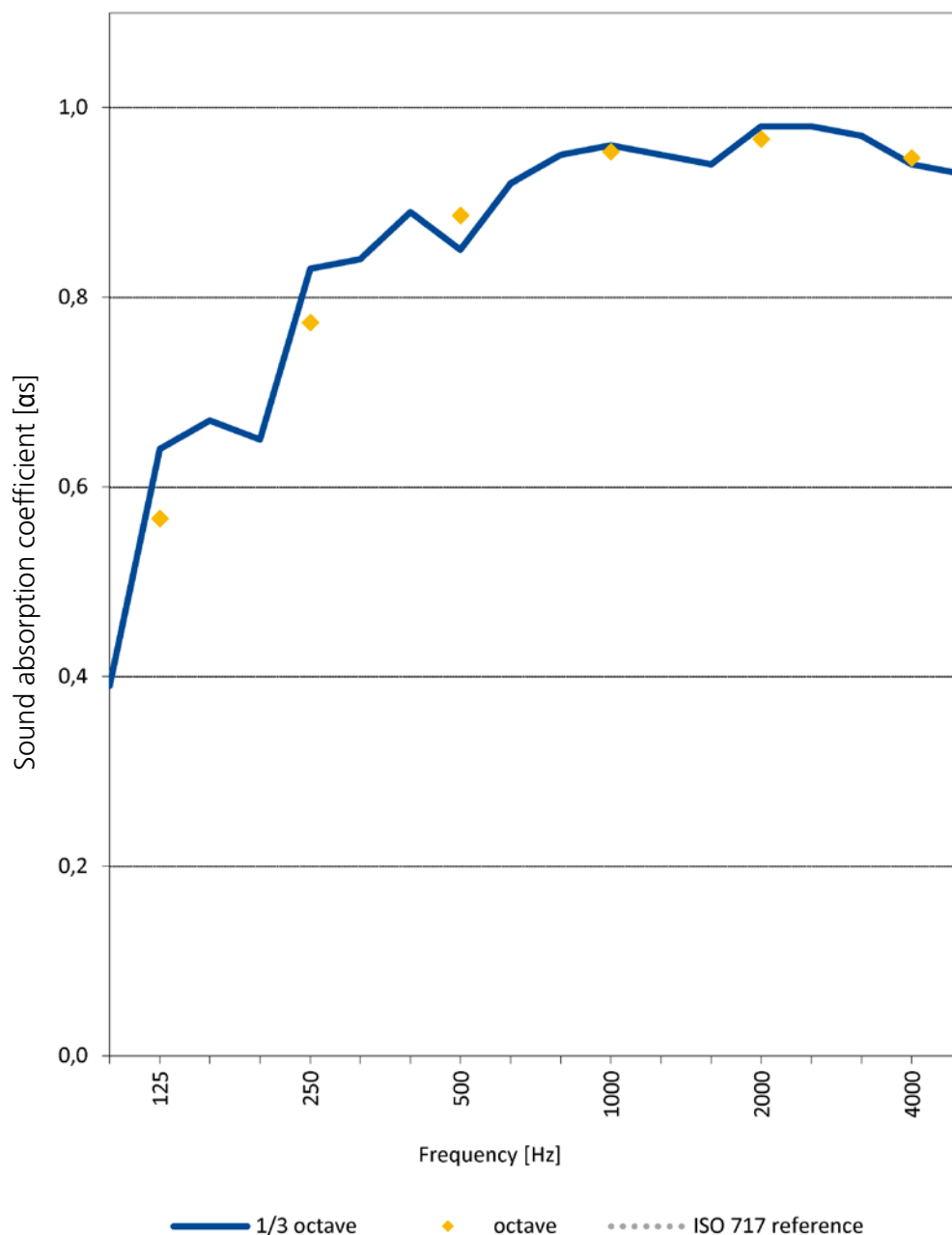
Product

Hipertec Wall Sound 100 mm



Surface 12,0 m²
Thickness 100 mm
Standard ISO354:2003

Freq. [Hz]	α	
	$\frac{1}{3}$ oct. oct.	
125	0,39 0,64 0,67	0,57
250	0,65 0,83 0,84	0,77
500	0,89 0,85 0,92	0,89
1000	0,95 0,96 0,95	0,95
2000	0,94 0,98 0,98	0,97
4000	0,97 0,94 0,93	0,95



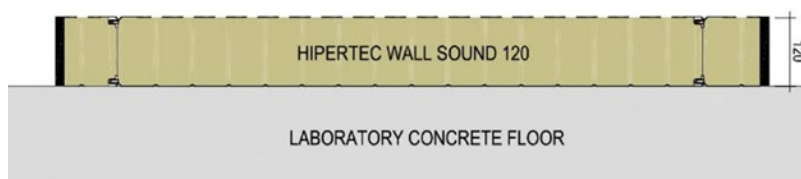
α_w 0,95
NRC -
Country Netherlands
Laboratory Peutz
Report nr. 038
Test year 2020

Measurement of the sound absorption

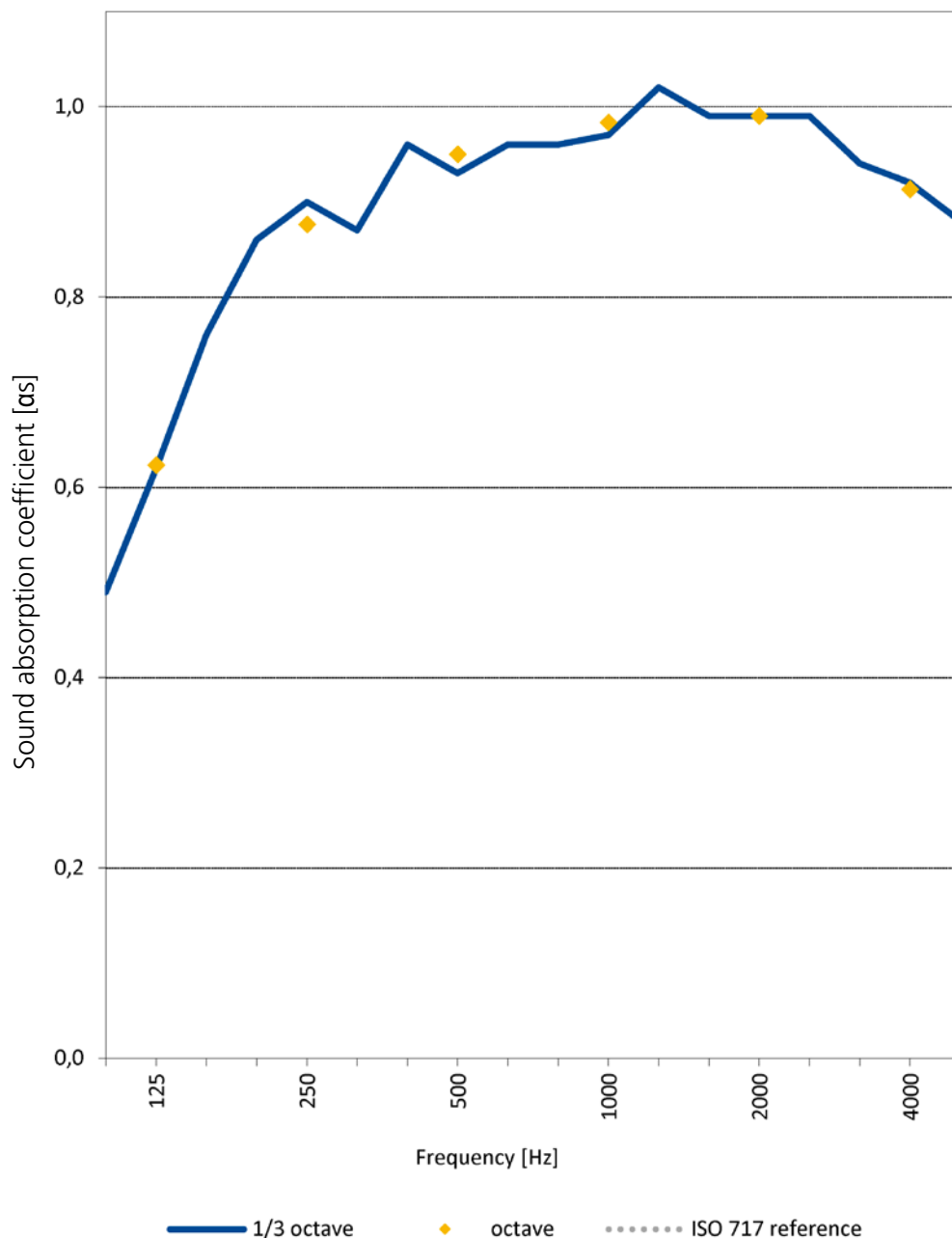
Product

Hipertec Wall Sound 120 mm

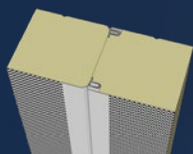
Surface 15,1 m²
Thickness 120 mm
Standard ISO354:1993



Freq. [Hz]	α		
	1/3 oct. oct.		
125	0,49 0,62 0,76	0,62	
250	0,86 0,90 0,87	0,88	
500	0,96 0,93 0,96	0,95	
1000	0,96 0,97 1,02	0,98	
2000	0,99 0,99 0,99	0,99	
4000	0,94 0,92 0,88	0,91	



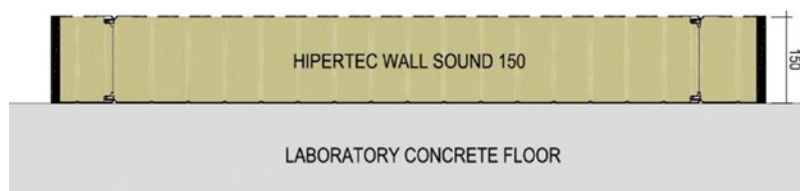
α_w 1,00
NRC -
Country Germany
Laboratory Fraunhofer
Report nr. 031
Test year 2003



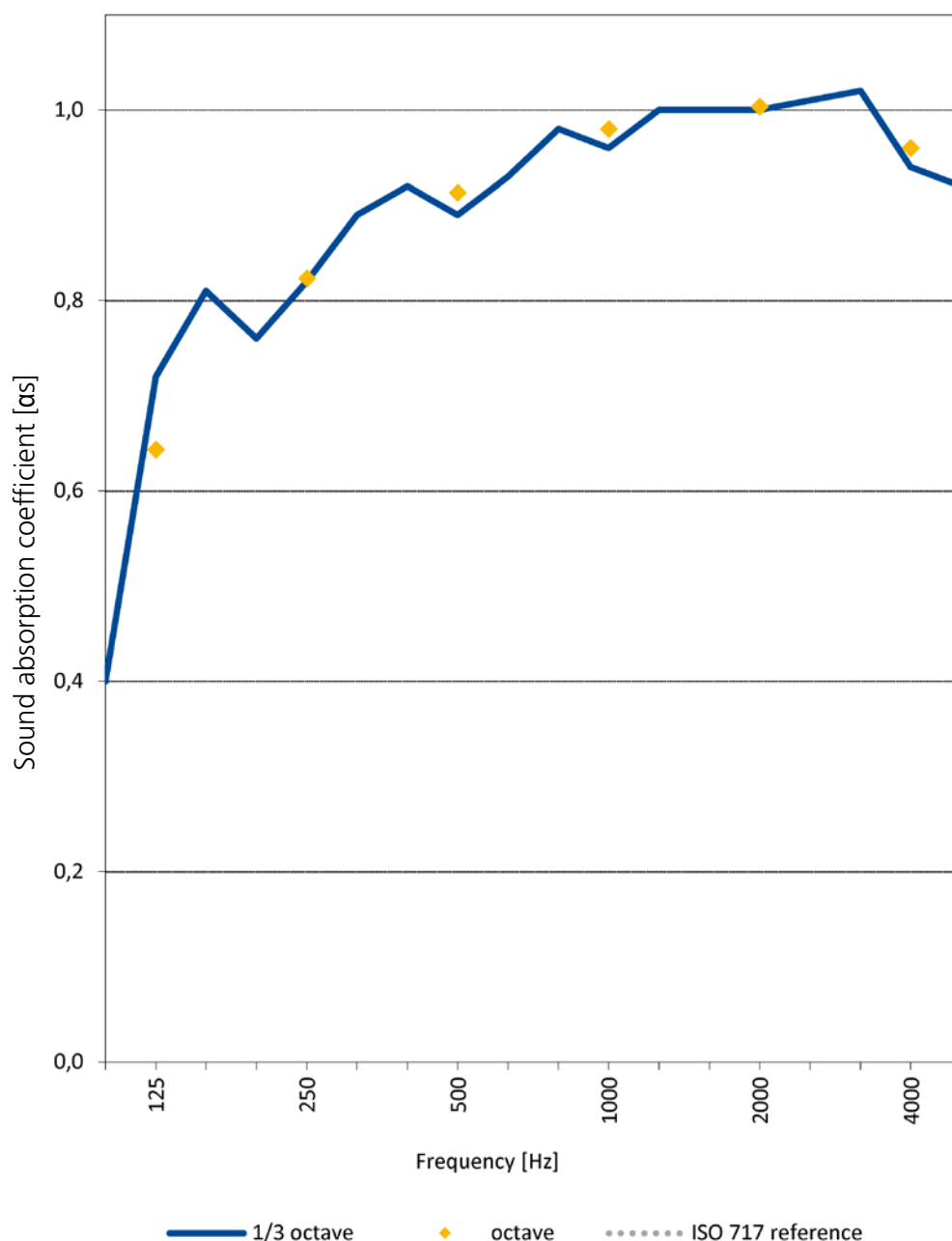
Measurement of the sound absorption

Product
Hipertec Wall Sound 150 mm

Surface 12,0 m²
Thickness 150 mm
Standard ISO354:2003



Freq. [Hz]	α	
	$\frac{1}{3}$ oct. oct.	
125	0,40 0,72 0,81	0,64
250	0,76 0,82 0,89	0,82
500	0,92 0,89 0,93	0,91
1000	0,98 0,96 1,00	0,98
2000	1,00 1,00 1,01	1,00
4000	1,02 0,94 0,92	0,96



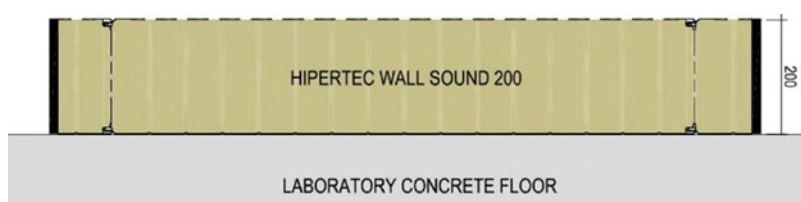
α_w 1,00
NRC 0,90
Country Netherlands
Laboratory Peutz
Report nr. 030
Test year 2016

Measurement of the sound absorption

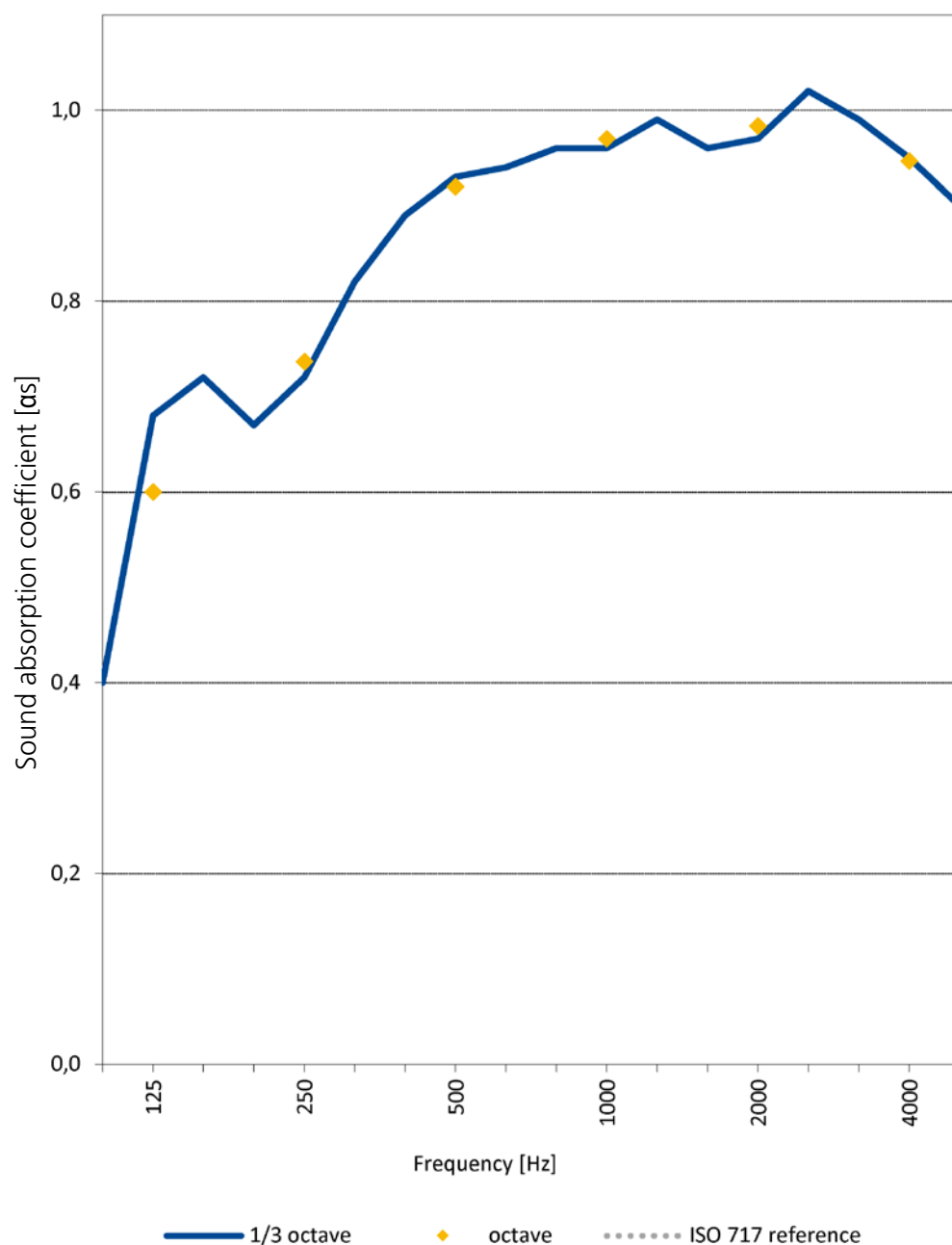
Product

Hipertec Wall Sound 200 mm

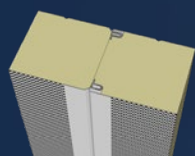
Surface 12,0 m²
Thickness 200 mm
Standard ISO354:2003



Freq. [Hz]	α 1/3 oct. oct.	
125	0,40 0,68 0,72	0,60
250	0,67 0,72 0,82	0,74
500	0,89 0,93 0,94	0,92
1000	0,96 0,96 0,99	0,97
2000	0,96 0,97 1,02	0,98
4000	0,99 0,95 0,90	0,95



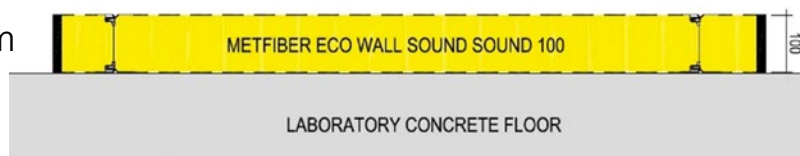
α_w 0,95
NRC 0,90
Country Netherlands
Laboratory Peutz
Report nr. 032
Test year 2016



Measurement of the sound absorption

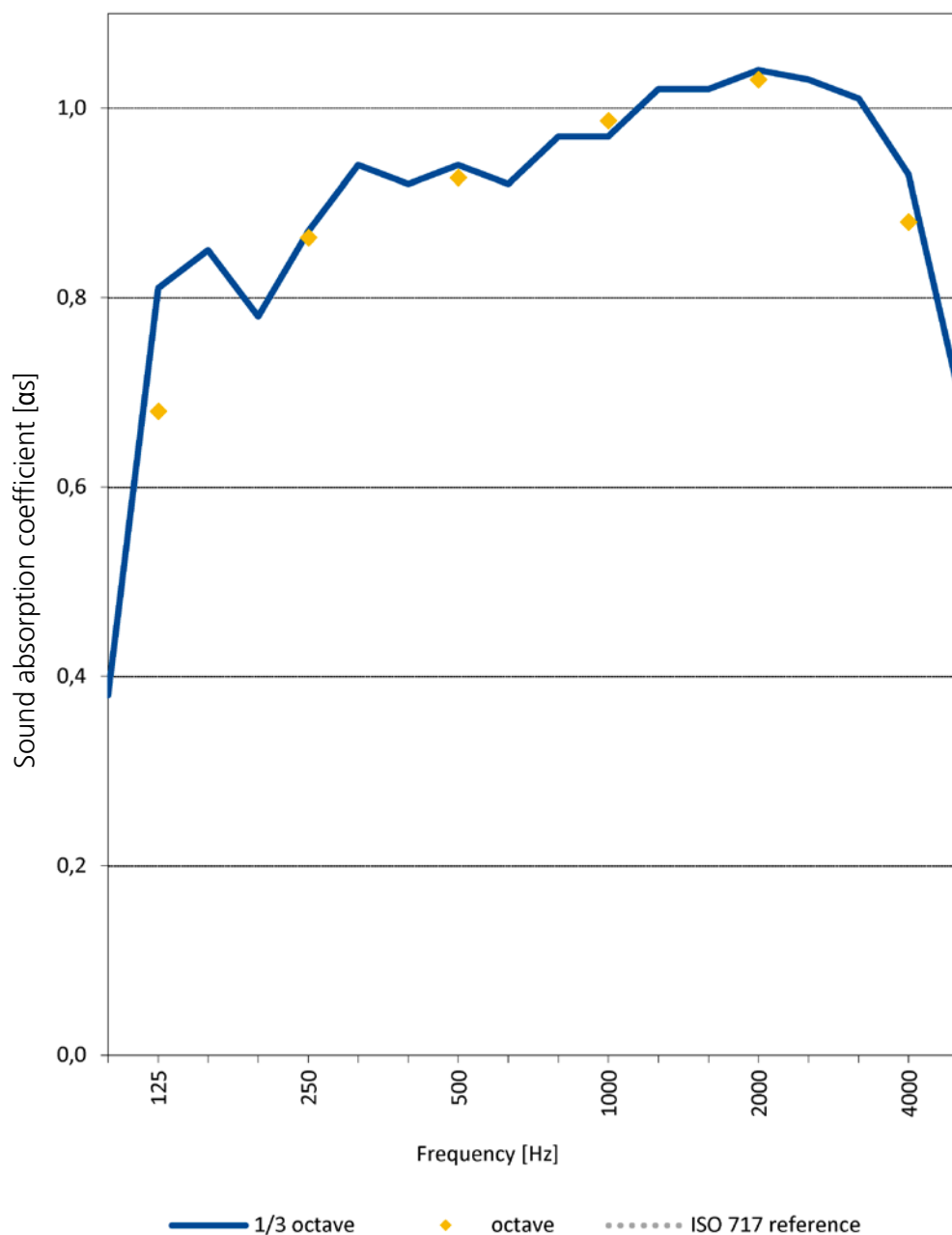
Product

Metfiber Eco Wall Sound Sound 100 mm



Surface 12,0 m²
Thickness 100 mm
Standard ISO354:2003

Freq. [Hz]	α		
	1/3 oct. oct.		
125	0,38 0,81 0,85	0,68	
250	0,78 0,87 0,94	0,86	
500	0,92 0,94 0,92	0,93	
1000	0,97 0,97 1,02	0,99	
2000	1,02 1,04 1,03	1,03	
4000	1,01 0,93 0,70	0,88	

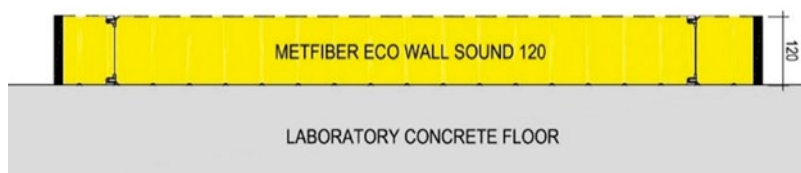


α_w 1,00
NRC -
Country Netherlands
Laboratory Peutz
Report nr. 040
Test year 2017

Measurement of the sound absorption

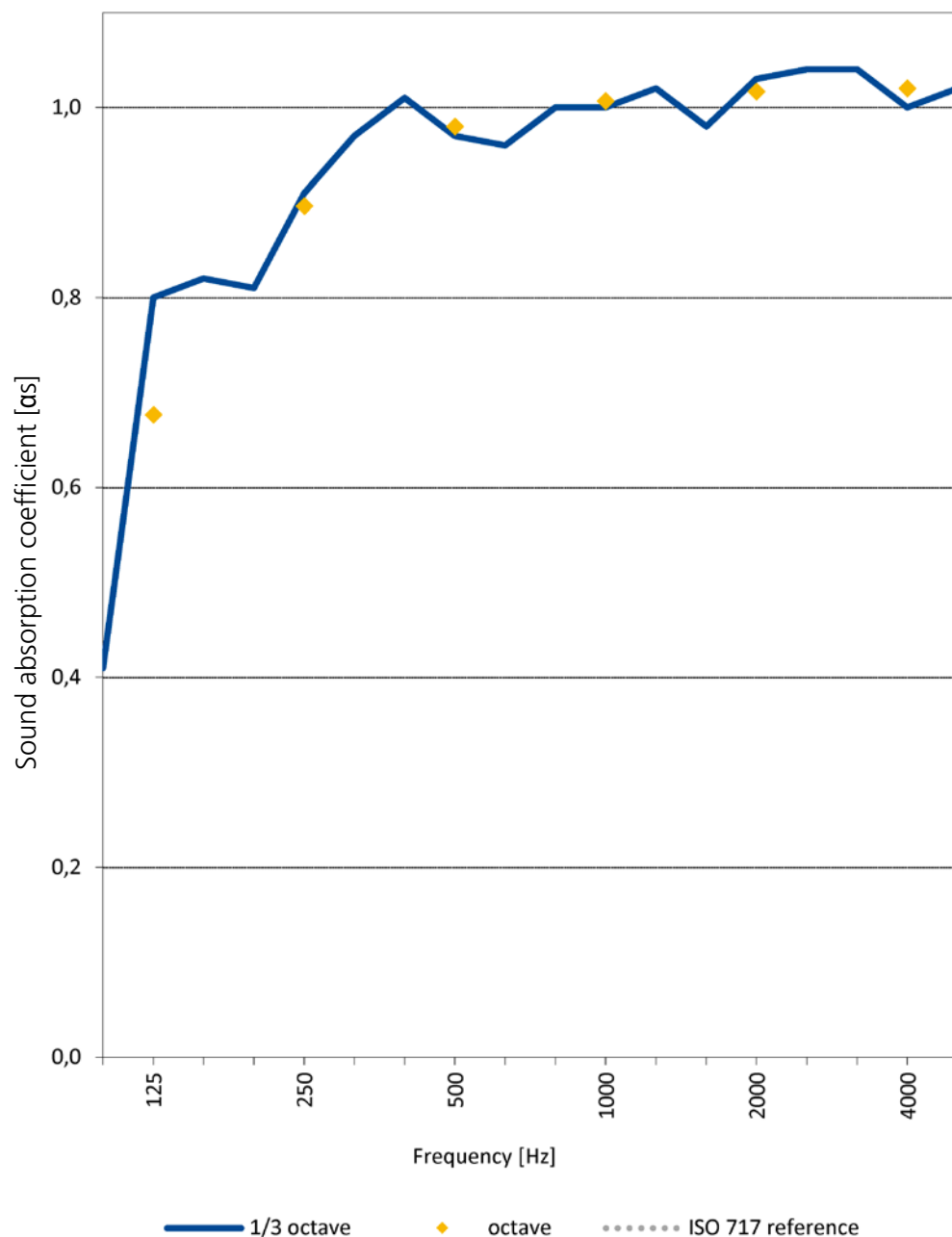
Product

Metfiber Eco Wall Sound 120 mm



Surface 11,1 m²
Thickness 120 mm
Standard ISO354:2003

Freq. [Hz]	α		
	1/3 oct. oct.		
125	0,41 0,80 0,82	0,68	
250	0,81 0,91 0,97	0,90	
500	1,01 0,97 0,96	0,98	
1000	1,00 1,00 1,02	1,01	
2000	0,98 1,03 1,04	1,02	
4000	1,04 1,00 1,02	1,02	

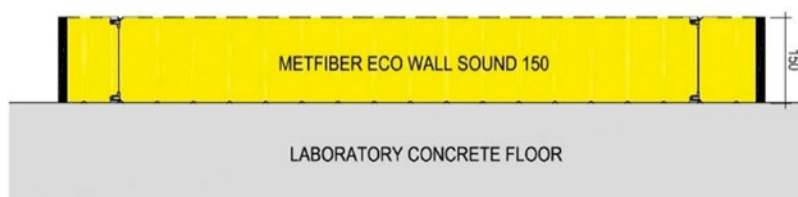


α_w 1,00
NRC 1,00
Country Netherlands
Laboratory Peutz
Report nr. 004
Test year 2016

Measurement of the sound absorption

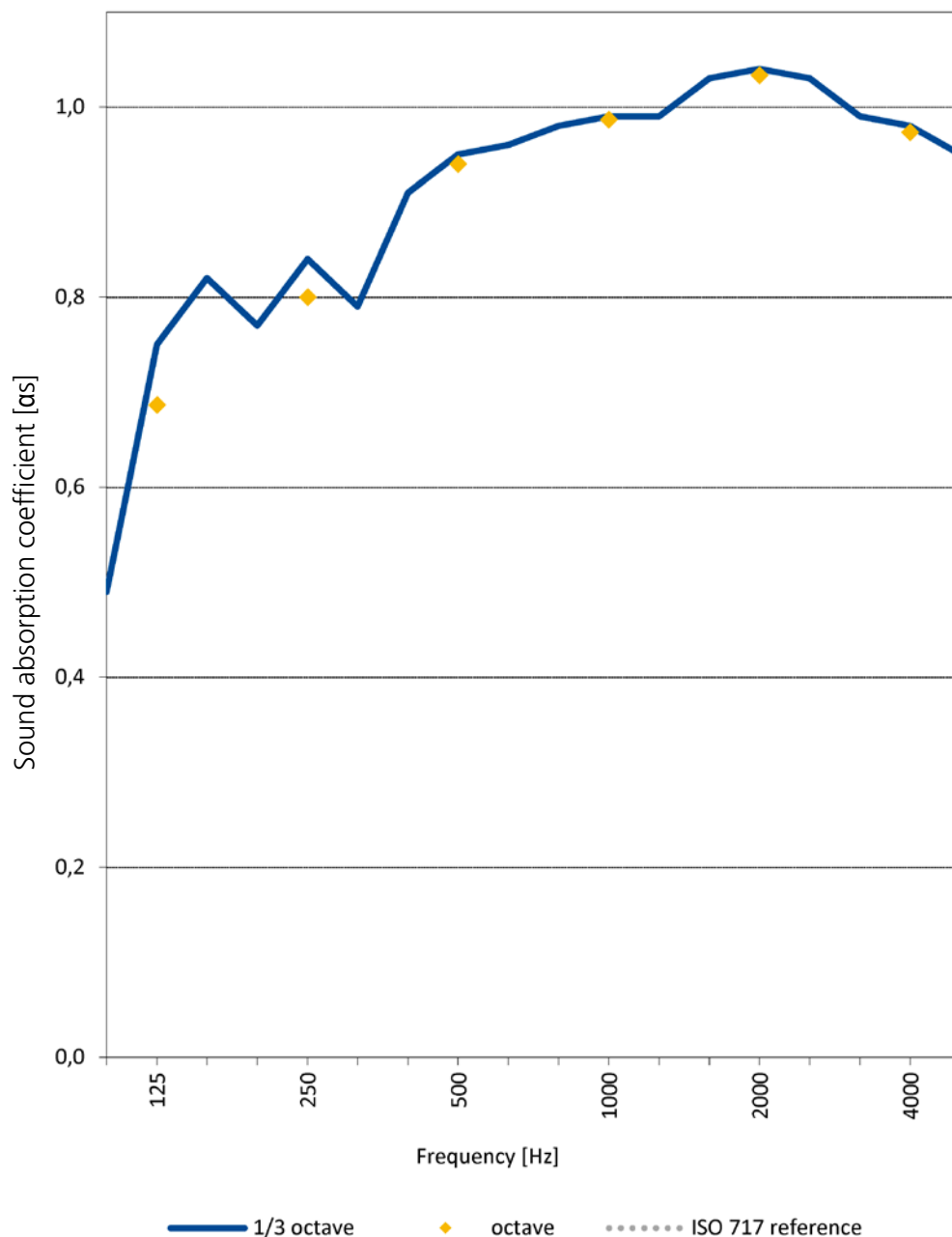
Product

Metfiber Eco Wall Sound 150 mm



Surface 12,0 m²
Thickness 150 mm
Standard ISO354:2003

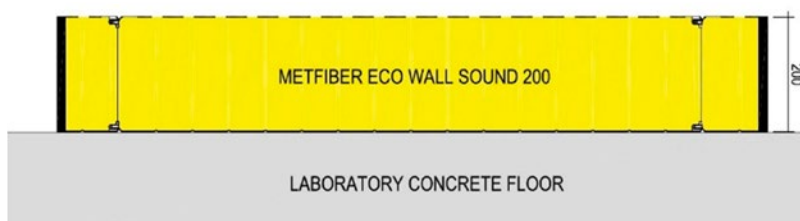
Freq. [Hz]	α	
	$\frac{1}{3}$ oct. oct.	
125	0,49 0,75 0,82	0,69
250	0,77 0,84 0,79	0,80
500	0,91 0,95 0,96	0,94
1000	0,98 0,99 0,99	0,99
2000	1,03 1,04 1,03	1,03
4000	0,99 0,98 0,95	0,97



α_w 1,00
NRC 0,95
Country Netherlands
Laboratory Peutz
Report nr. 042
Test year 2015

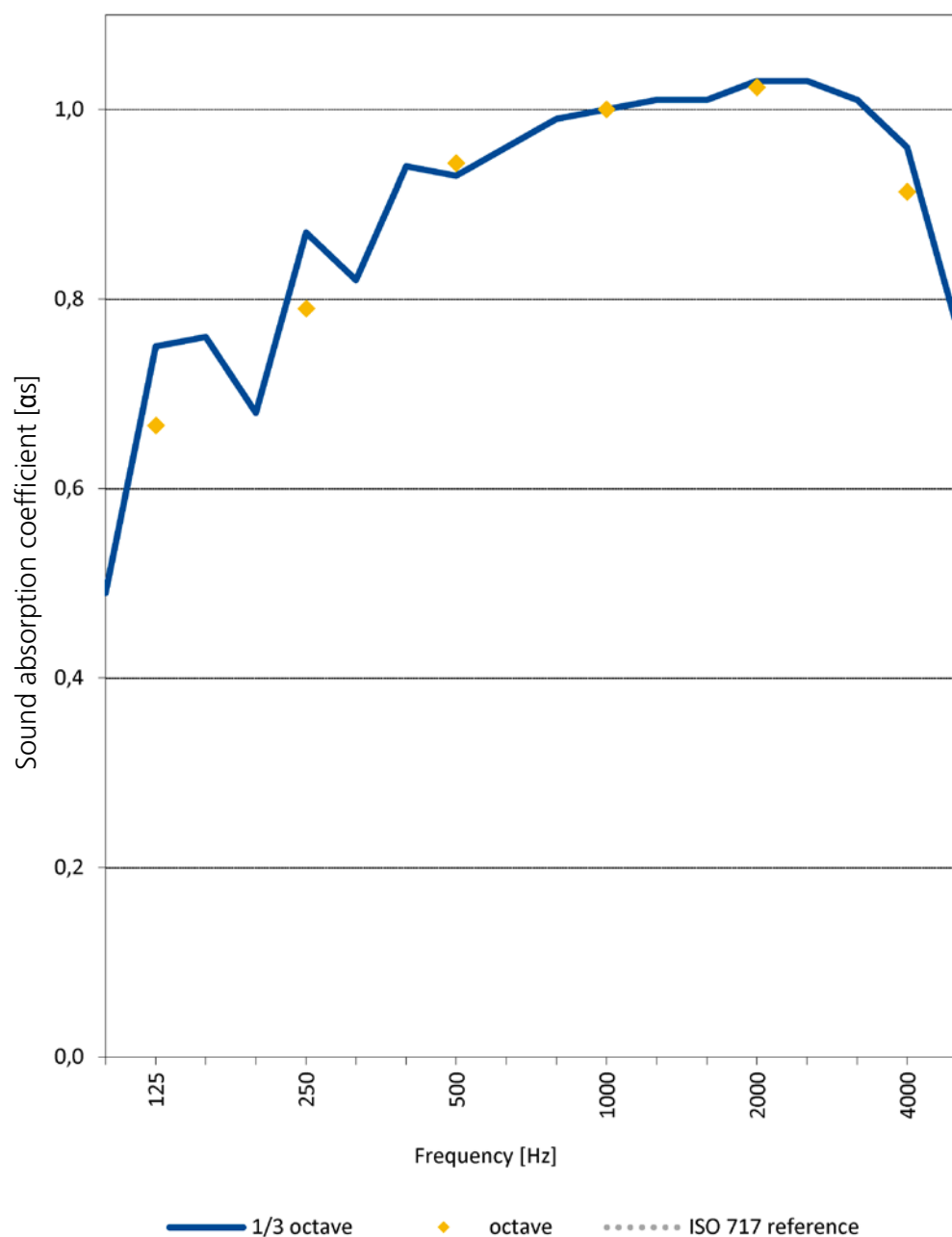
Measurement of the sound absorption

Product
Metfiber Eco Wall Sound 200 mm

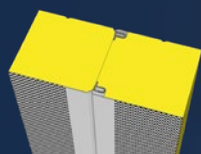


Surface 12,0 m²
Thickness 200 mm
Standard ISO354:2003

Freq. [Hz]	α 1/3 oct. oct.		
125	0,49 0,75 0,76	0,67	
250	0,68 0,87 0,82	0,79	
500	0,94 0,93 0,96	0,94	
1000	0,99 1,00 1,01	1,00	
2000	1,01 1,03 1,03	1,02	
4000	1,01 0,96 0,77	0,91	



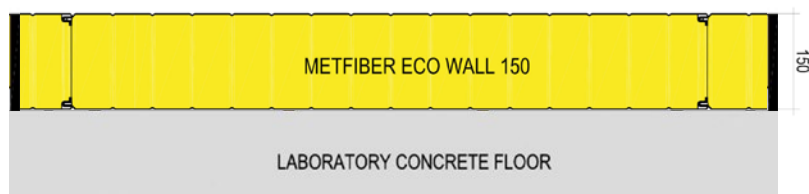
α_w 1,00
NRC 0,95
Country Netherlands
Laboratory Peutz
Report nr. 041
Test year 2015



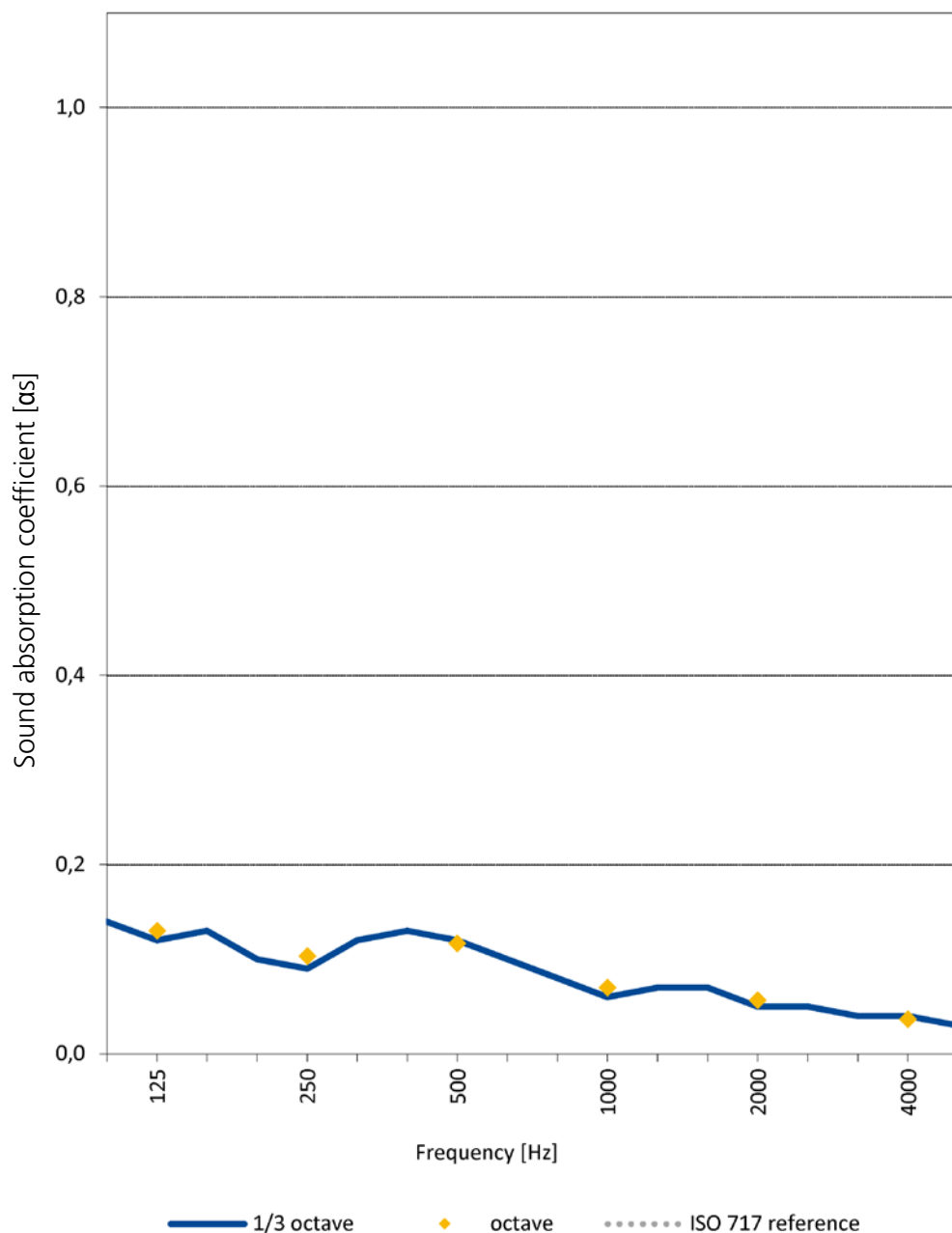
Measurement of the sound absorption

Product
Metfiber Eco Wall 150 mm

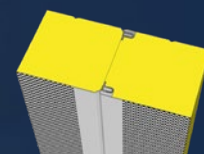
Surface 11,2 m²
Thickness 150 mm
Standard ISO354:2003



Freq. [Hz]	α	
	1/3 oct. oct.	
125	0,14 0,12 0,13	0,13
250	0,10 0,09 0,12	0,10
500	0,13 0,12 0,10	0,12
1000	0,08 0,06 0,07	0,07
2000	0,07 0,05 0,05	0,06
4000	0,04 0,04 0,03	0,04



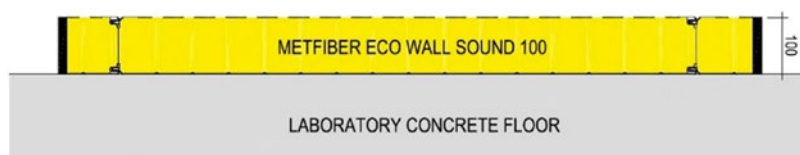
α_w 0,10
NRC 0,10
Country Netherlands
Laboratory Peutz
Report nr. 002
Test year 2014



Measurement of the sound absorption

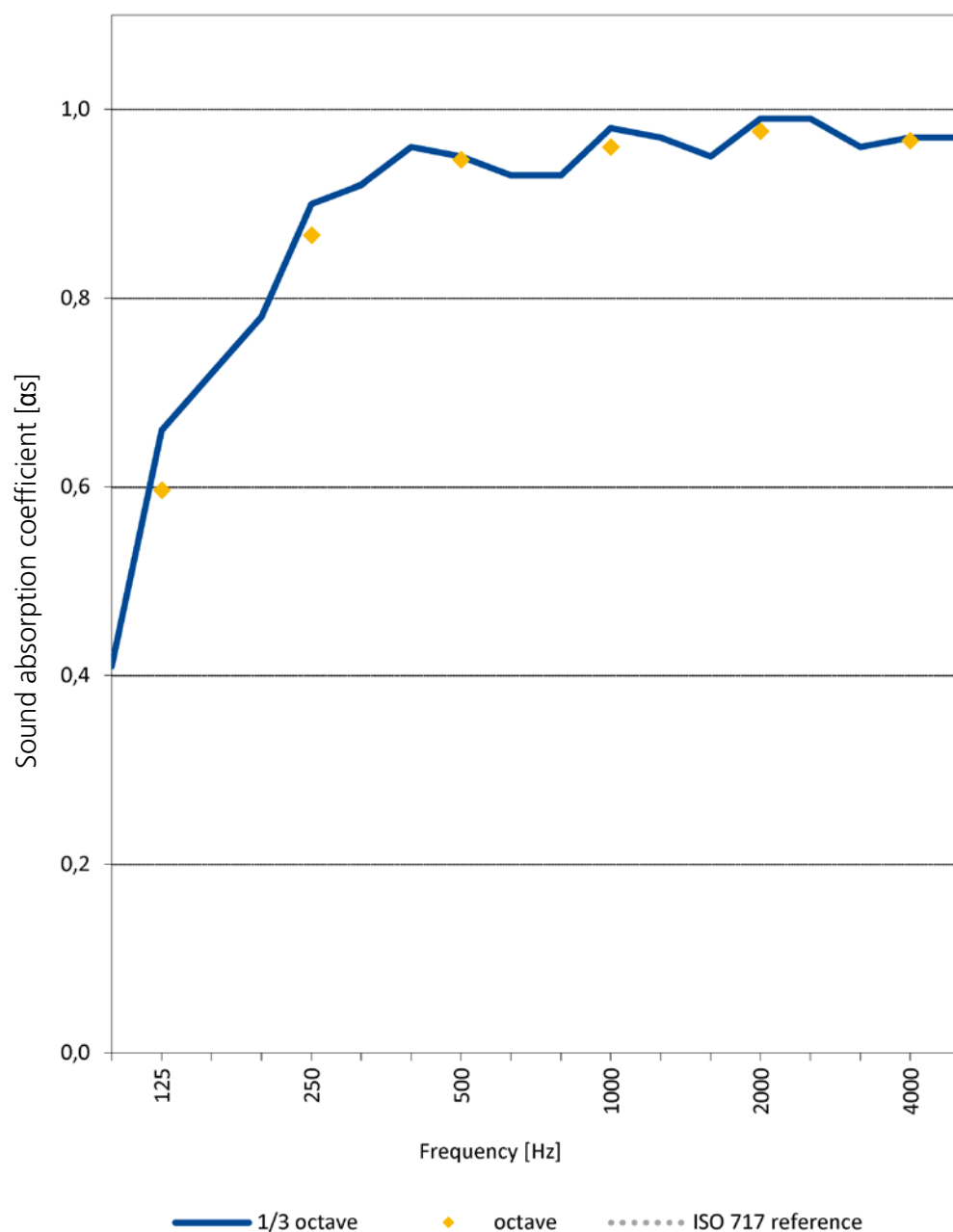
Product

Metfiber Eco Wall Sound 100 mm

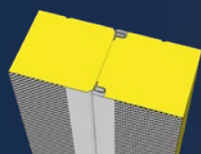


Surface 11,2 m²
Thickness 100 mm
Standard ISO354:2003

Freq. [Hz]	α		
	1/3 oct. oct.		
125	0,41 0,66 0,72	0,60	
250	0,78 0,90 0,92	0,87	
500	0,96 0,95 0,93	0,95	
1000	0,93 0,98 0,97	0,96	
2000	0,95 0,99 0,99	0,98	
4000	0,96 0,97 0,97	0,97	



α_w 1,00
NRC 0,95
Country Netherlands
Laboratory Peutz
Report nr. 003
Test year 2014



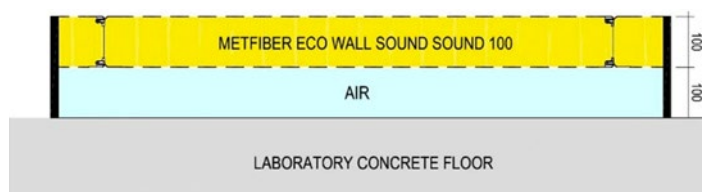
Measurement of the sound absorption

Product

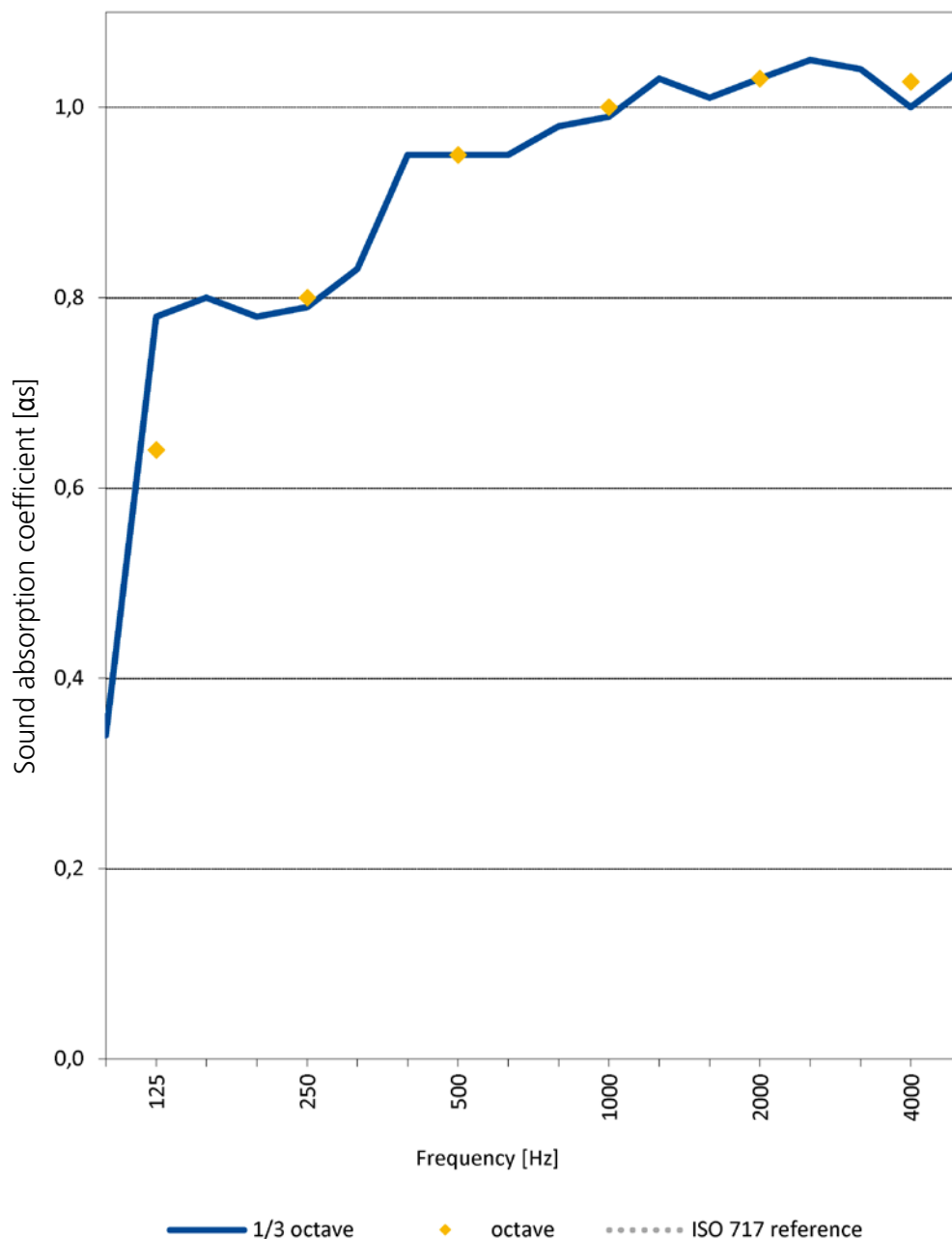
Metfiber Eco Wall Sound Sound 100 mm

Cavity air 100 mm

Surface 12,0 m²
Thickness 200 mm
Standard ISO354:2003



Freq. [Hz]	α		
	$\frac{1}{3}$ oct. oct.		
125	0,34 0,78 0,80	0,64	
250	0,78 0,79 0,83	0,80	
500	0,95 0,95 0,95	0,95	
1000	0,98 0,99 1,03	1,00	
2000	1,01 1,03 1,05	1,03	
4000	1,04 1,00 1,04	1,03	



α_w 1,00
NRC 0,95
Country Netherlands
Laboratory Peutz
Report nr. 037
Test year 2016

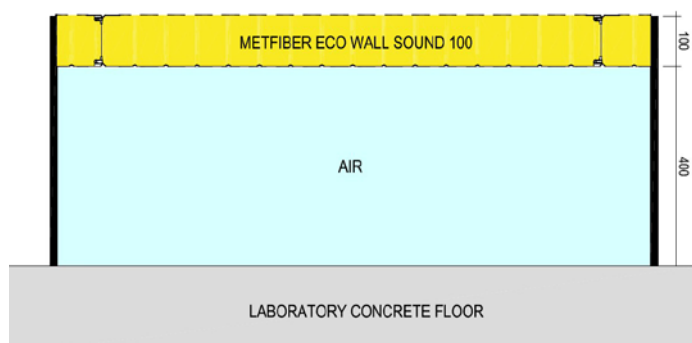
Measurement of the sound absorption

Product

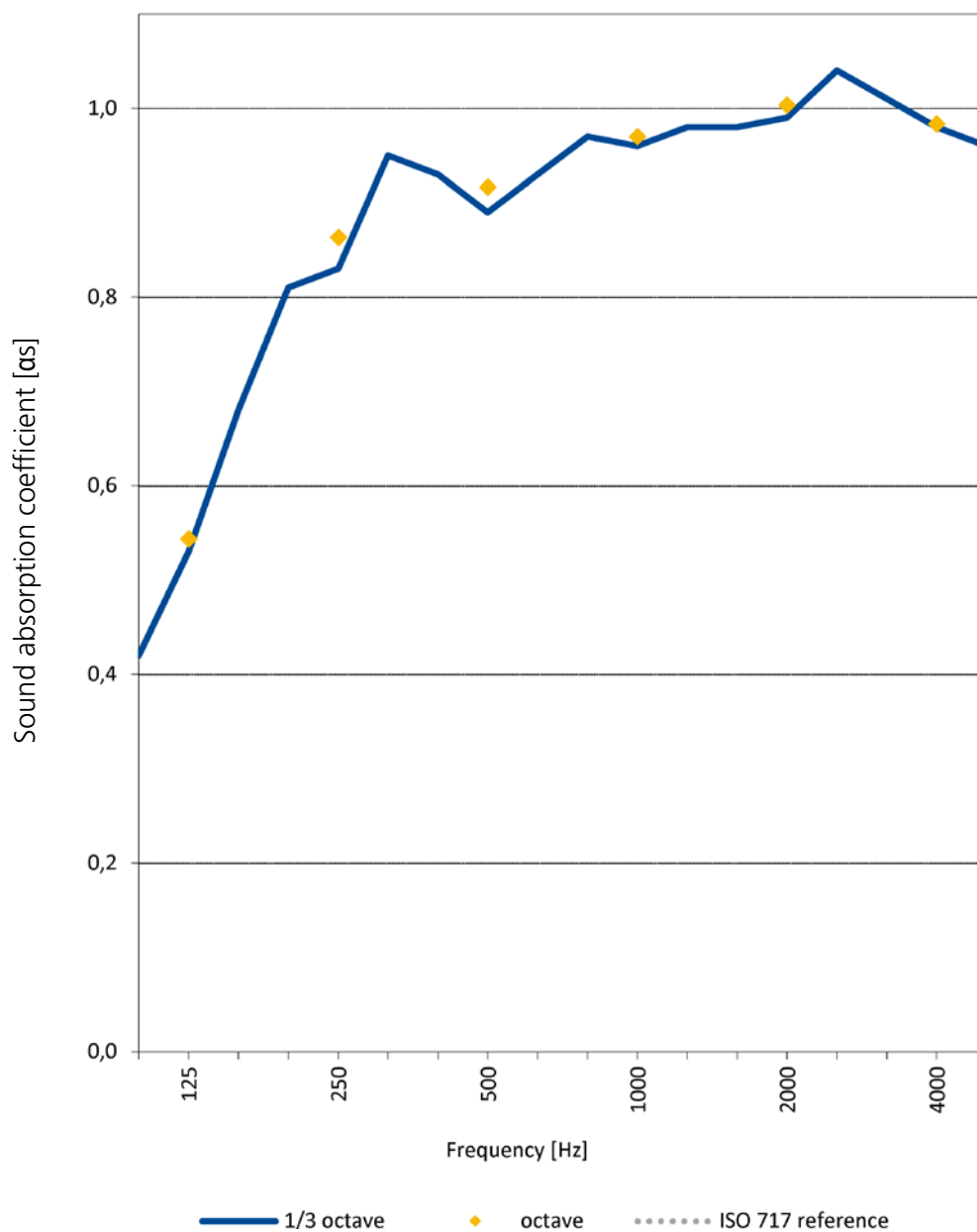
Metfiber Eco Wall Sound 100 mm

Cavity air 400 mm

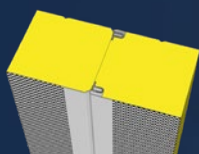
Surface 14,7 m²
Thickness 500 mm
Standard ISO354:2003



Freq. [Hz]	α	
	$\frac{1}{3}$ oct. oct.	
125	0,42 0,53 0,68	0,54
250	0,81 0,83 0,95	0,86
500	0,93 0,89 0,93	0,92
1000	0,97 0,96 0,98	0,97
2000	0,98 0,99 1,04	1,00
4000	1,01 0,98 0,96	0,98



α_w 0,95
NRC -
Country Netherlands
Laboratory Peutz
Report nr. 038
Test year 2020



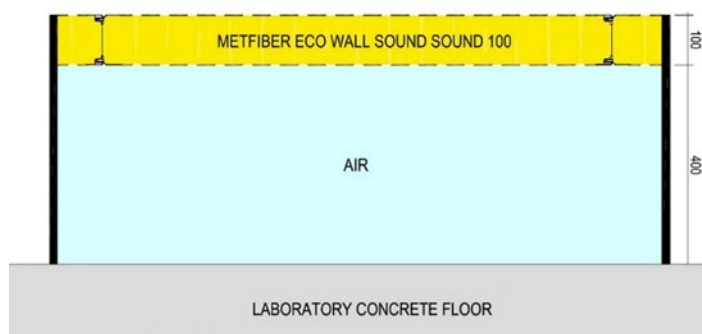
Measurement of the sound absorption

Product

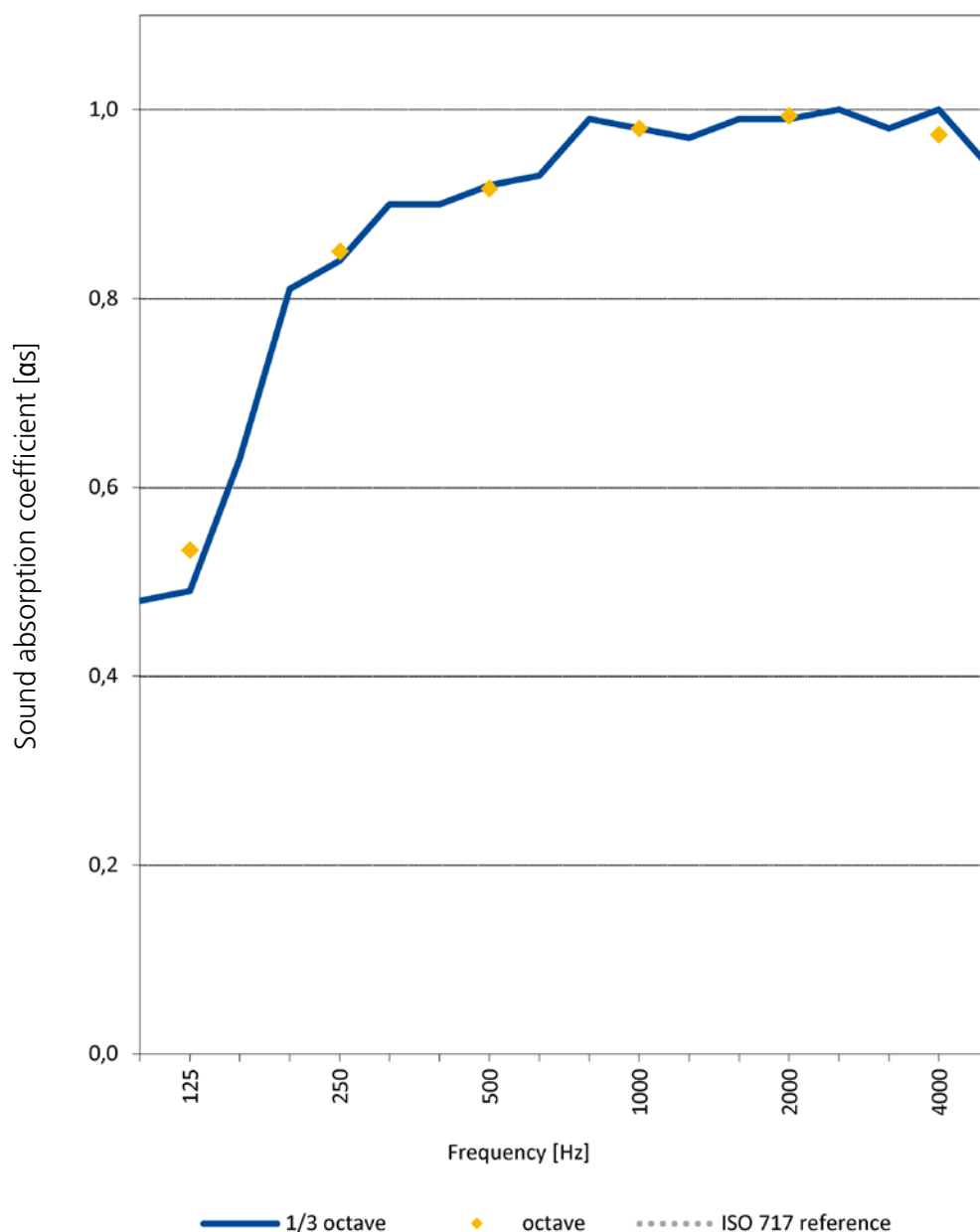
Metfiber Eco Wall Sound Sound 100 mm

Cavity air 400 mm

Surface 12,0 m²
Thickness 500 mm
Standard ISO354:2003



Freq. [Hz]	α		
	1/3 oct. oct.		
125	0,48 0,49 0,63	0,53	
250	0,81 0,84 0,90	0,85	
500	0,90 0,92 0,93	0,92	
1000	0,99 0,98 0,97	0,98	
2000	0,99 0,99 1,00	0,99	
4000	0,98 1,00 0,94	0,97	



α_w 1,00
NRC -
Country Netherlands
Laboratory Peutz
Report nr. 038
Test year 2020

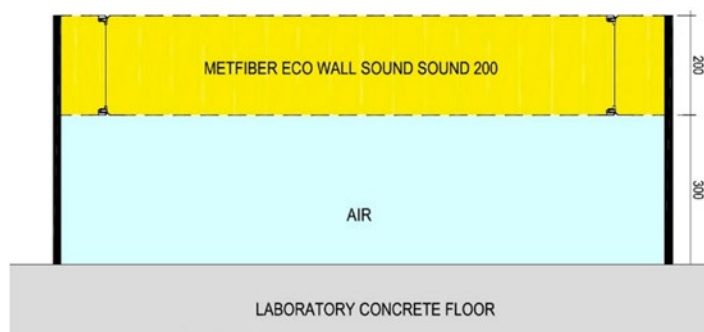
Measurement of the sound absorption

Product

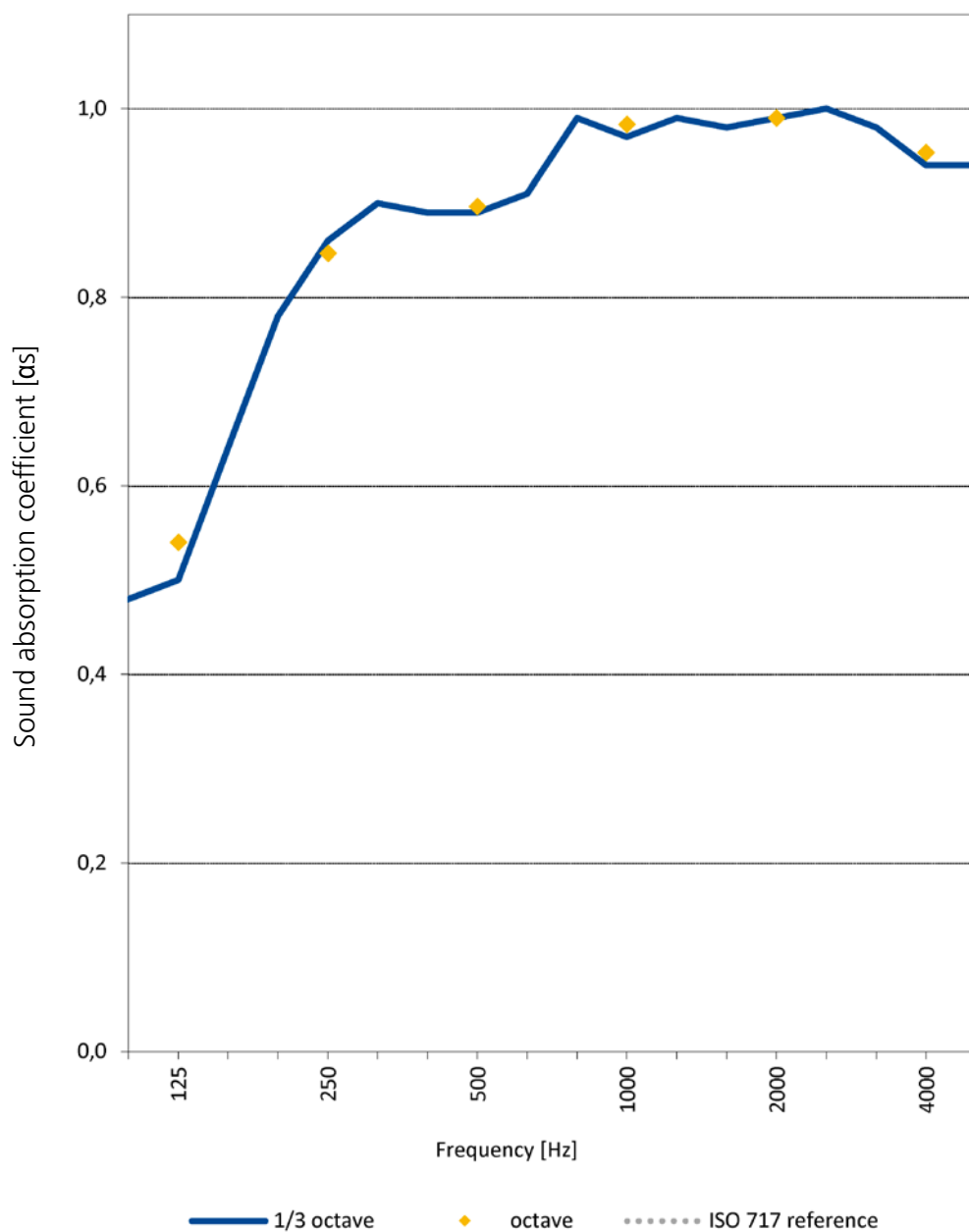
Metfiber Eco Wall Sound Sound 200 mm

Cavity air 300 mm

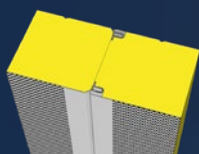
Surface 12,0 m²
Thickness 500 mm
Standard ISO354:2003



Freq. [Hz]	α 1/3 oct. oct.	
125	0,48 0,50 0,64	0,54
250	0,78 0,86 0,90	0,85
500	0,89 0,89 0,91	0,90
1000	0,99 0,97 0,99	0,98
2000	0,98 0,99 1,00	0,99
4000	0,98 0,94 0,94	0,95



α_w 1,00
NRC -
Country Netherlands
Laboratory Peutz
Report nr. 038
Test year 2020

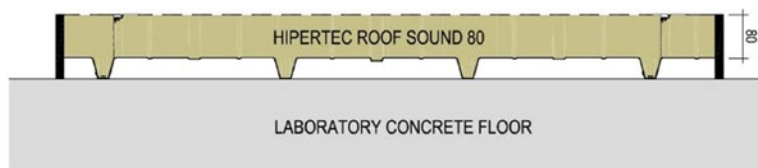


Measurement of the sound absorption

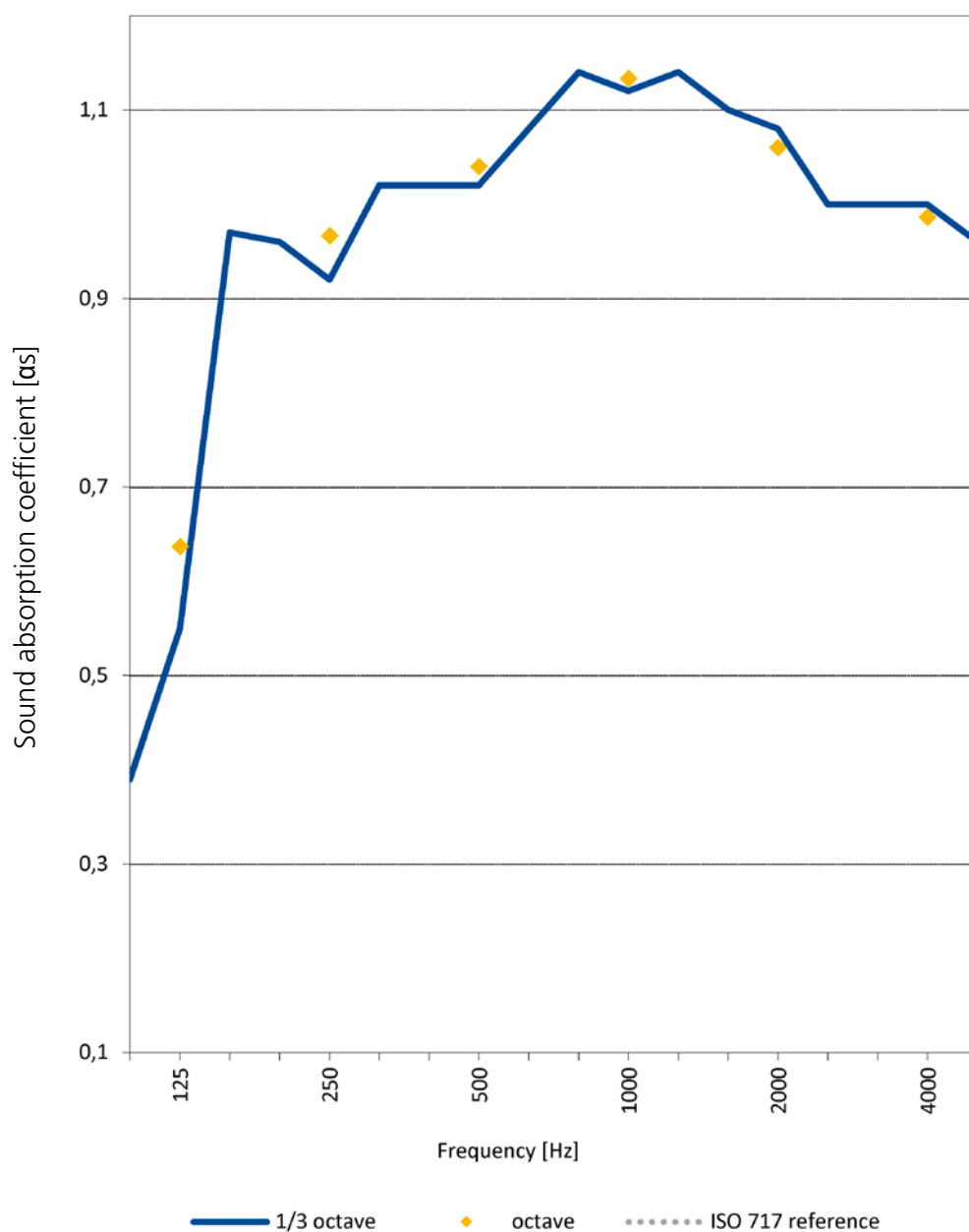
Product

Hipertec Roof Sound 80 mm

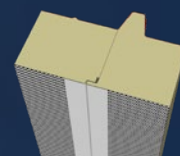
Surface 12,0 m²
Thickness 80 mm
Standard ISO354:1985



Freq. [Hz]	α	
	$\frac{1}{3}$ oct. oct.	
125	0,39 0,55 0,97	0,64
250	0,96 0,92 1,02	0,97
500	1,02 1,02 1,08	1,04
1000	1,14 1,12 1,14	1,13
2000	1,10 1,08 1,00	1,06
4000	1,00 1,00 0,96	0,99



α_w 1,00
NRC -
Country Italy
Laboratory Giordano
Report nr. 051
Test year 1997

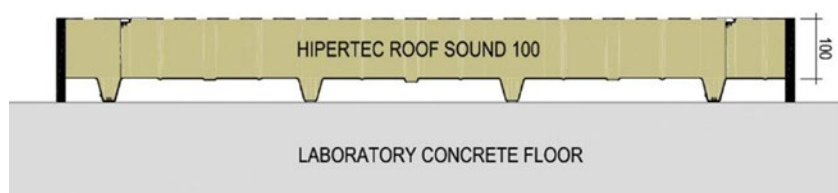


Measurement of the sound absorption

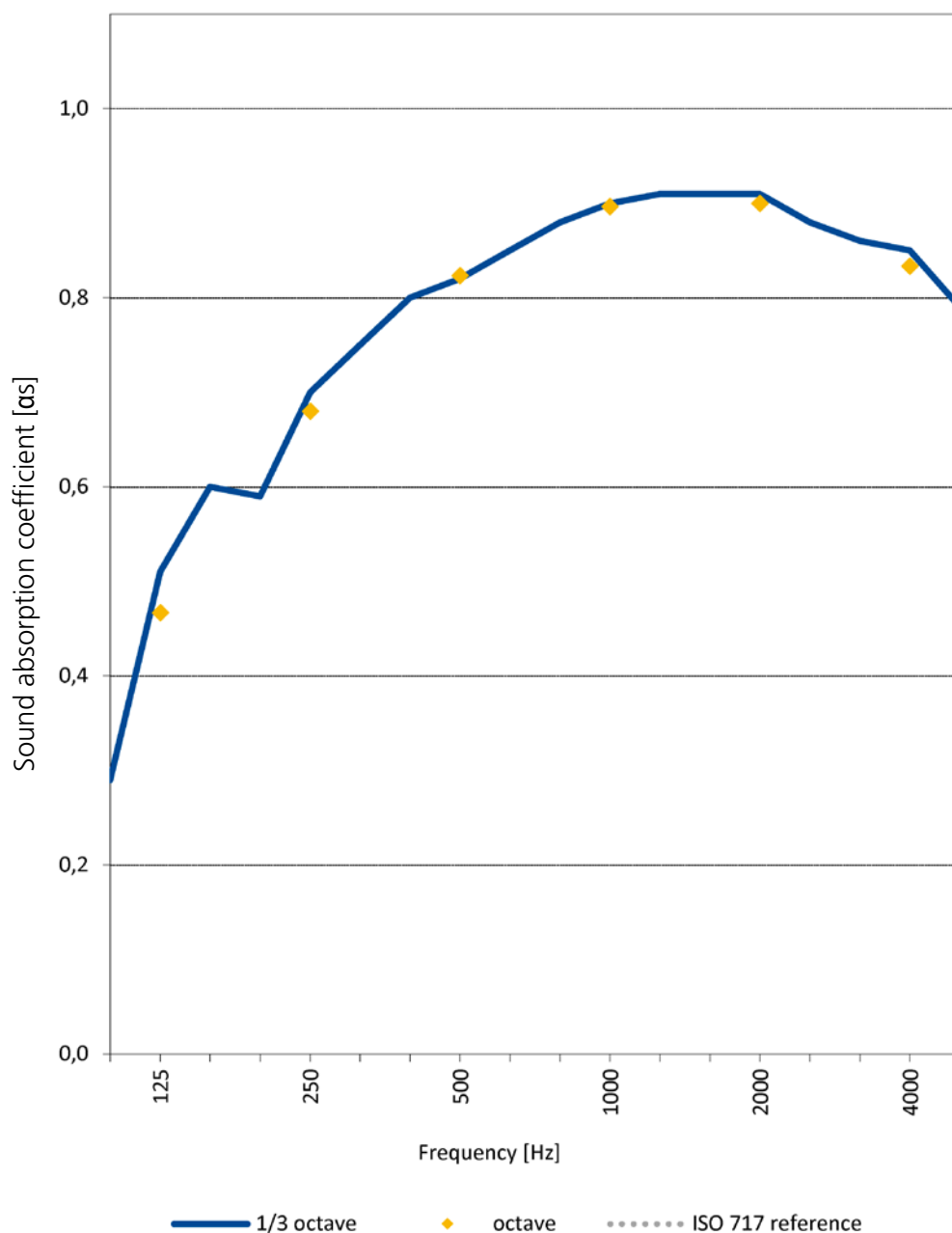
Product

Hipertec Roof Sound 100 mm

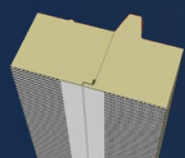
Surface 14,0 m²
Thickness 100 mm
Standard ISO354:1993



Freq. [Hz]	α	
	1/3 oct. oct.	
125	0,29 0,51 0,60	0,47
250	0,59 0,70 0,75	0,68
500	0,80 0,82 0,85	0,82
1000	0,88 0,90 0,91	0,90
2000	0,91 0,91 0,88	0,90
4000	0,86 0,85 0,79	0,83



α_w 0,85
NRC -
Country Germany
Laboratory Fraunhofer
Report nr. 035
Test year 1999

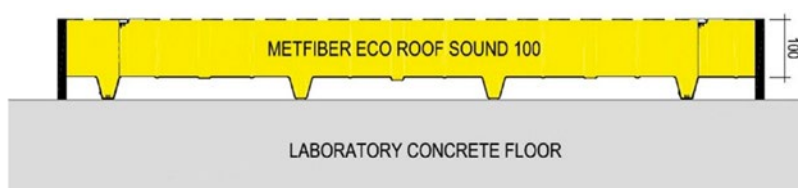


Measurement of the sound absorption

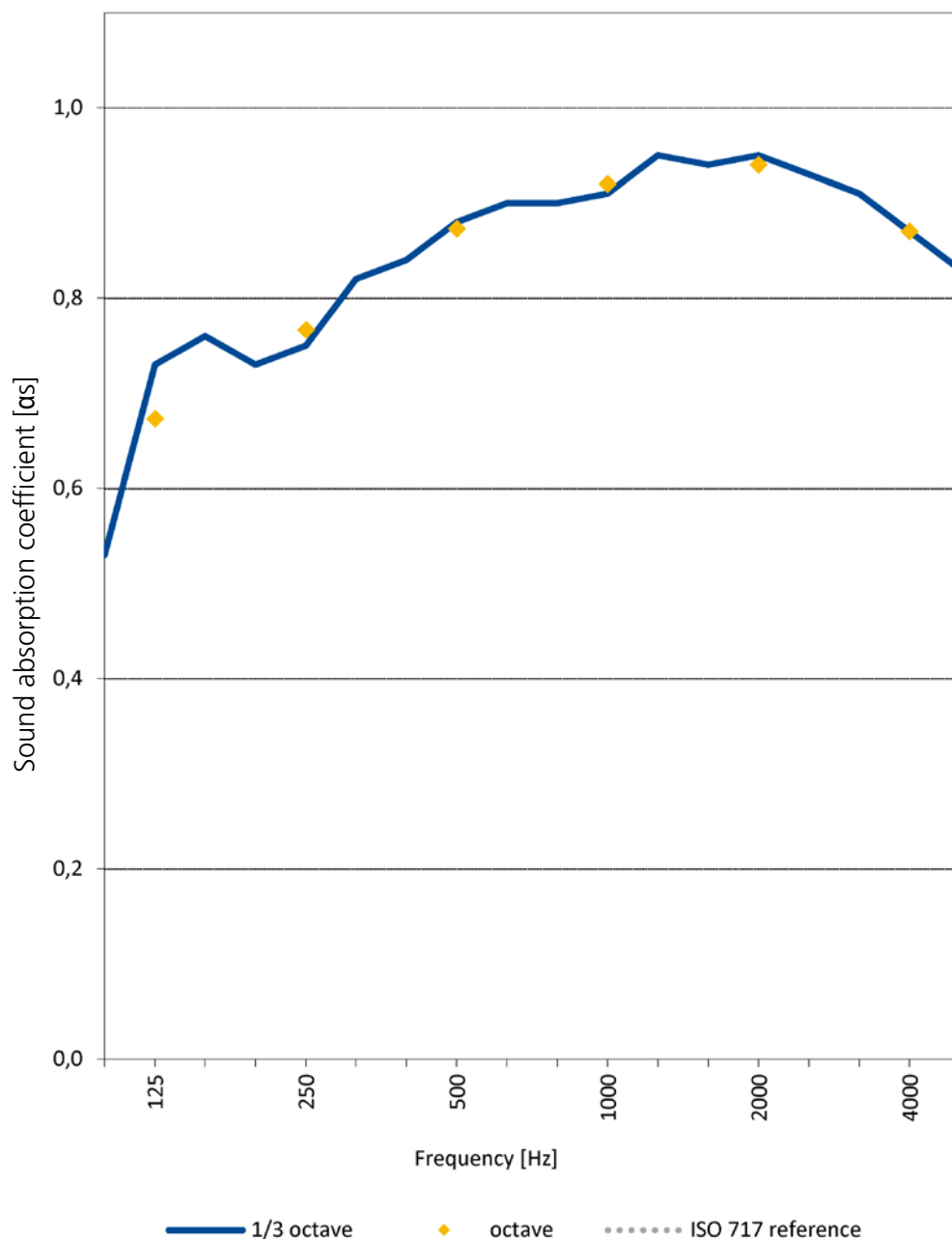
Product

Metfiber Eco Roof Sound 100 mm

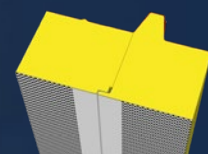
Surface 12,0 m²
Thickness 100 mm
Standard ISO354:2003



Freq. [Hz]	α		
	$\frac{1}{3}$ oct. oct.		
125	0,53 0,73 0,76	0,67	
250	0,73 0,75 0,82	0,77	
500	0,84 0,88 0,90	0,87	
1000	0,90 0,91 0,95	0,92	
2000	0,94 0,95 0,93	0,94	
4000	0,91 0,87 0,83	0,87	



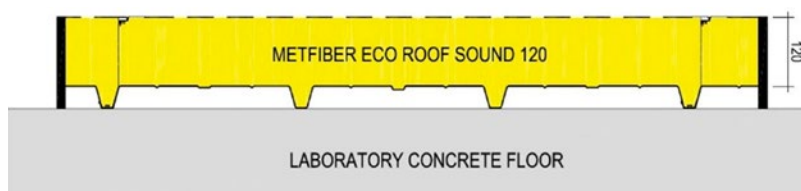
α_w 0,90
NRC 0,85
Country Netherlands
Laboratory Peutz
Report nr. 033
Test year 2016



Measurement of the sound absorption

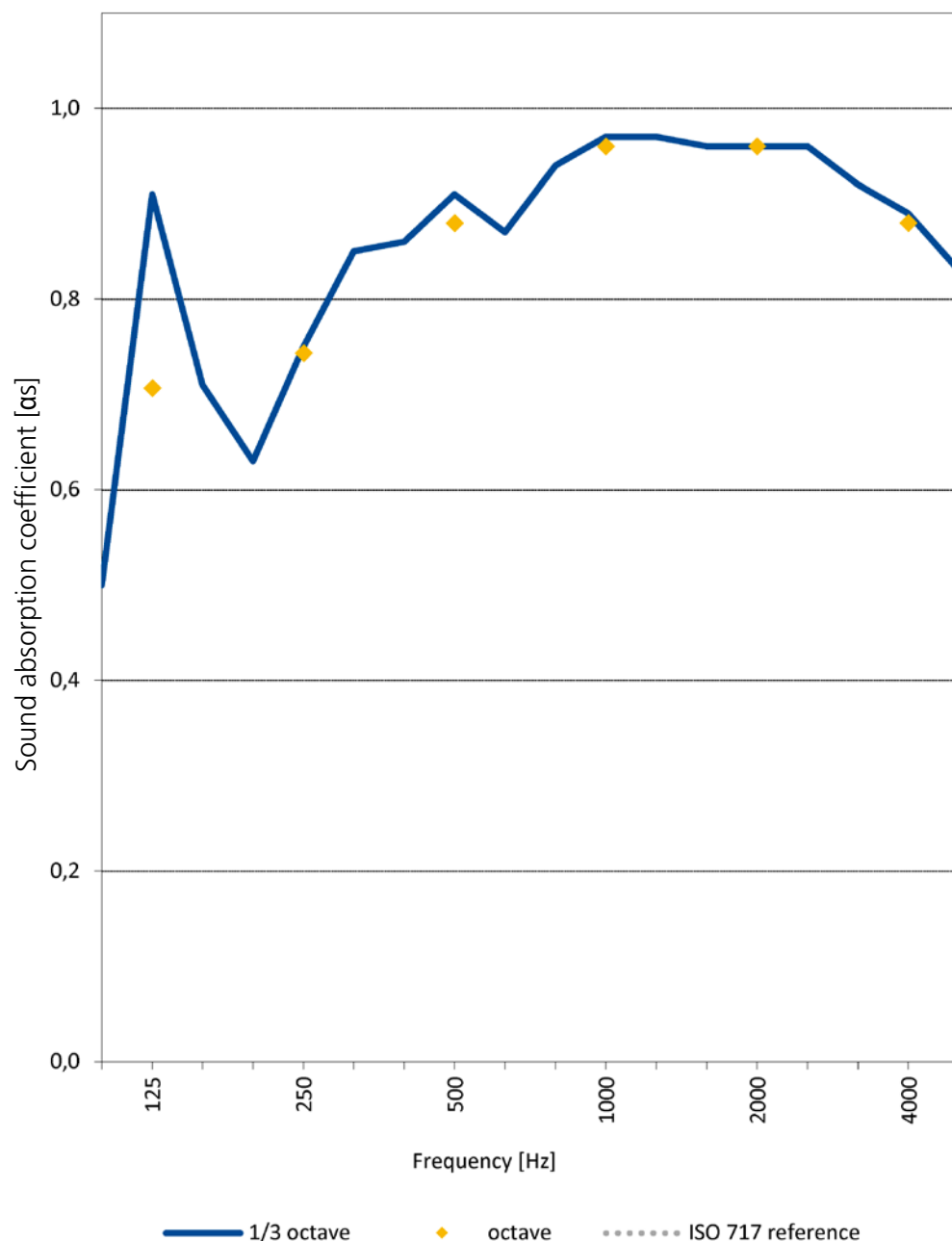
Product

Metfiber Eco Roof Sound 120 mm



Surface 12,0 m²
Thickness 120 mm
Standard ISO354:2003

Freq. [Hz]	α	
	1/3 oct. oct.	
125	0,50 0,91 0,71	0,71
250	0,63 0,75 0,85	0,74
500	0,86 0,91 0,87	0,88
1000	0,94 0,97 0,97	0,96
2000	0,96 0,96 0,96	0,96
4000	0,92 0,89 0,83	0,88



α_w 0,95
NRC 0,90
Country Netherlands
Laboratory Peutz
Report nr. 034
Test year 2016

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.

Extensive testing and approvals at independent laboratories (notified bodies) as well as many years of experience in the field of acoustic solutions contribute to the realization of your individual requirements by implementing our products and to simulate and approve their suitability in the forefront.

Got any questions or need technical support? – feel free to contact us!



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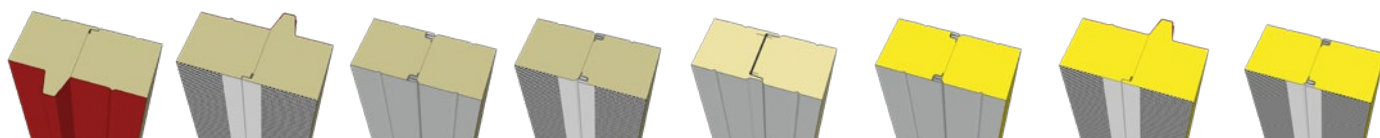


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Applicable general terms of sales available on request.

Metecno reserves the right to make necessary changes and improvements to the products without prior notice.

Metecno is not responsible for errors, including typos.

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