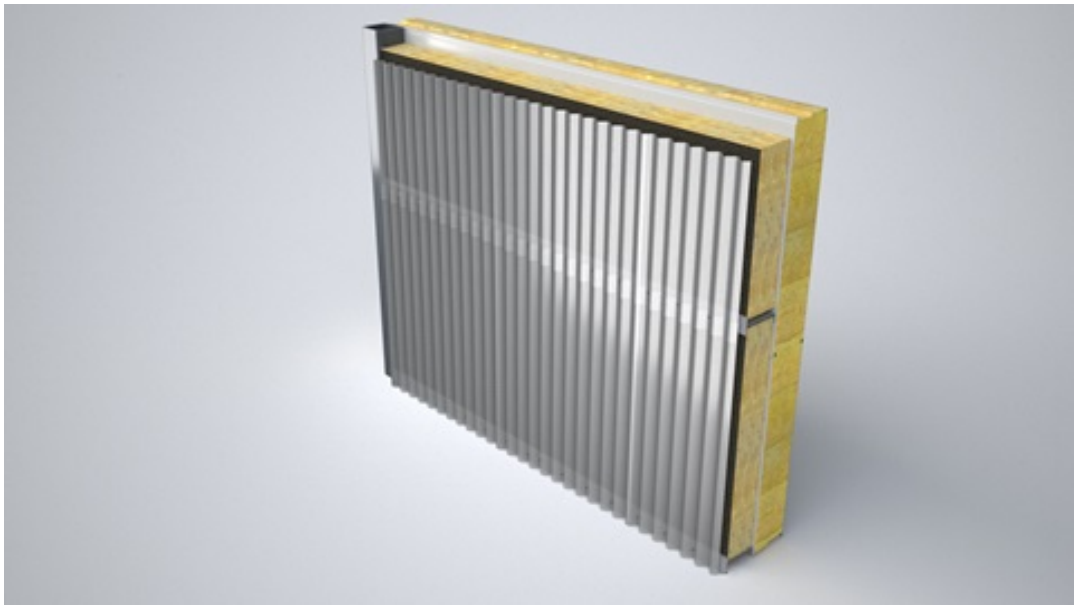
Ruukki acoustic cladding 100 mm

All Ruukki design and low profiles with 30% continuous perforation and suitable background insulation layer of 100 mm removes flutter echoes between vertical parallel surfaces and improves absorption properties of both wall and ceiling surfaces.

This solution is optionally available with following sustainable features:

- Steel facings made of recycled steel (SSAB Zero) for significantly lower CO_2 emissions and high circularity (Ruukki LowCarbon)



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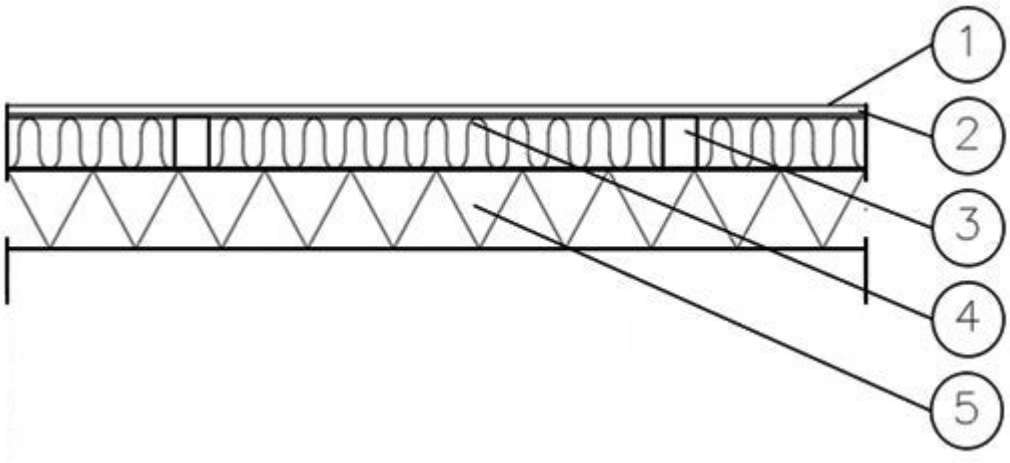
Structure



1. Ruukki design profile or low profile with 30 % perforation
2. Acoustic fabric
3. Hat profile 0,6 mm; h = 100 mm, w = 70 mm
4. Low density glass wool ~ 15 kg/m³, not in Ruukki delivery
5. Base structure: Ruukki sandwich panel (SPA150E) / all kind of base structure

Thickness	**100**
Impact resistance class (EN 13964:2014)	Class 2A (Design Venice S10) Class 3A (Design Tokyo S18)

Sound absorption values

Practical sound absorption coefficient α_p and sound absorption class

Class A, α_w 1,00

f(Hz)	**α_p**

125	0,60
250	1,00
500	1,00
1000	1,00
2000	1,00
4000	0,95

Sound insulation values

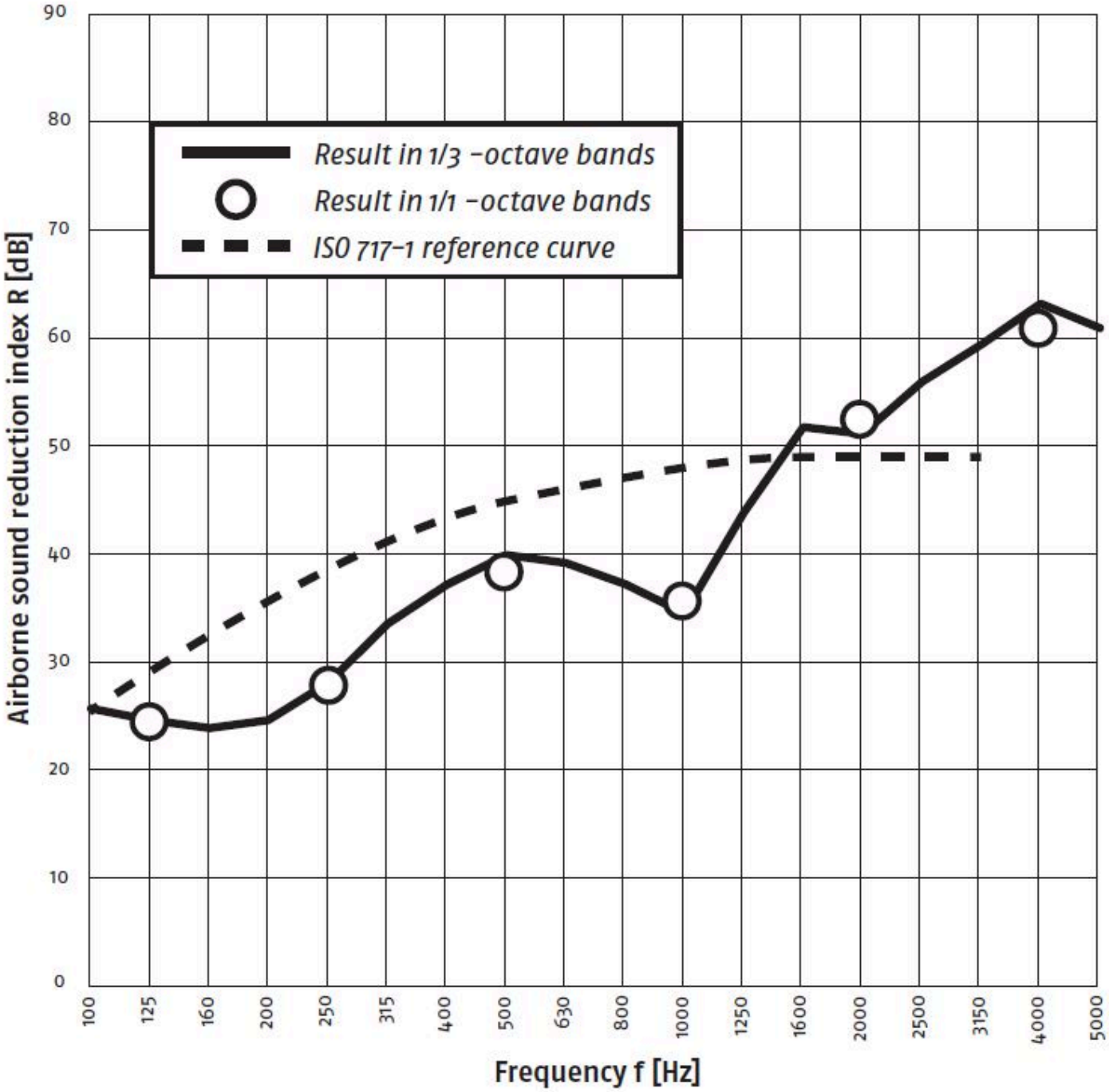
Airborne sound insulation value improvement

(Values below are measured with Ruukki sandwich panel (SPA150E) base structure, similar improvement with all sandwich panels.)

f(Hz)	R(dB) 1/3	R(dB) 1/1	F	B
50	21,3			
63	31,4	18,6		
80	14,8			
100	25,8			
125	24,4	24,5		
160	23,6			
200	24,5			
250	28,1	27,3		
315	33,1			
400	37,0			

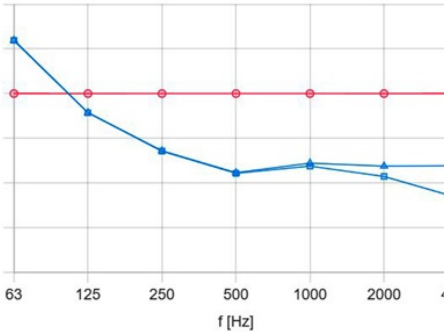
500	39,8	38,4		
630	39,0			
800	37,2			
1000	34,0	36,7		
1250	43,0			
1600	51,4			
2000	50,7	52,1		
2500	55,8			
3150	59,1		x	
4000	62,5	60,7	x	
5000	61,1			

Note. Signs F and B indicate that the declared result is an underestimate in this frequency band. The true value is larger.



$R_w(C;C_{tr})$ = 39 (-1;-5) dB

Design tools



Ruukki Acoustic Estimator

Try our estimator for your next project. With our estimation tool you can calculate which product configuration provides you with optimal results.

Go to estimation tool here

Download BIM objects to your desktop

ProdLib brings Ruukki products as BIM models directly to your desktop in 3D form for design programs AutoCAD, Autodesk Revit, Archicad and Tekla Structures. Product libraries compile all necessary design models and detailed drawings in one place. Library updates are automatically notified, so as a user you can be sure that your product information is constantly up to date. ProdLib can also be used as a standalone desktop application.

Go to BIM library

Technical documents

Here you can find all technical documents related to Ruukki's sound environment solutions. Documents are organised by document type.

Product description

Ruukki sound environment solutions - Product description 10_2025
PDF, 1.6 MB

Design instruction

Ruukki sound environment solution - Design instructions 10_2022
PDF, 5.5 MB

Sound insulation values for sandwich panels and various structures 02_2023
PDF, 5.9 MB

Installation instruction

Load bearing profiled sheet - Installation instructions 10_2022
PDF, 1.1 MB

Detail drawings

Load bearing sheets absorption structures
PDF, 281.8 KB

Load bearing sheet absorption structures
DWG, 405.7 KB

Acoustic cladding structure drawing 10_2025
DWG, 335.2 KB

Acoustic cladding structure drawing 10_2025
PDF, 215.2 KB

Accessories

Facade cladding accessories 11_2025
PDF, 2.8 MB

Profiled sheets and purlins accessories 01_2024
PDF, 4.0 MB

Certificates and approvals

Here you can find all certificates and approvals related to Ruukki's sound environment solutions. Documents are organized by document type.

Declaration of performance

Declaration of Performance 12/LBS/VIM - Load bearing products
PDF, 494.1 KB

Ruukki Cor-Ten facades - Certification
PDF, 31.8 KB

Declaration of Performance 10/PP/ZYR - Low profiles
PDF, 56.9 KB

Declaration of Performance 28/PP/VIM - Low profiles
PDF, 41.3 KB

Declaration of Performance 8/PP/VIM - Low profiles
PDF, 43.6 KB

Declaration of Performance 25/PP/PAR - Cladding products
PDF, 43.7 KB

Environmental product declaration

EPD Ruukki colour-coated products
PDF, 1.1 MB

EPD Ruukki LowCarbon colour-coated products
PDF, 0.8 MB

EPD Facade claddings 03_2023
PDF, 3.5 MB