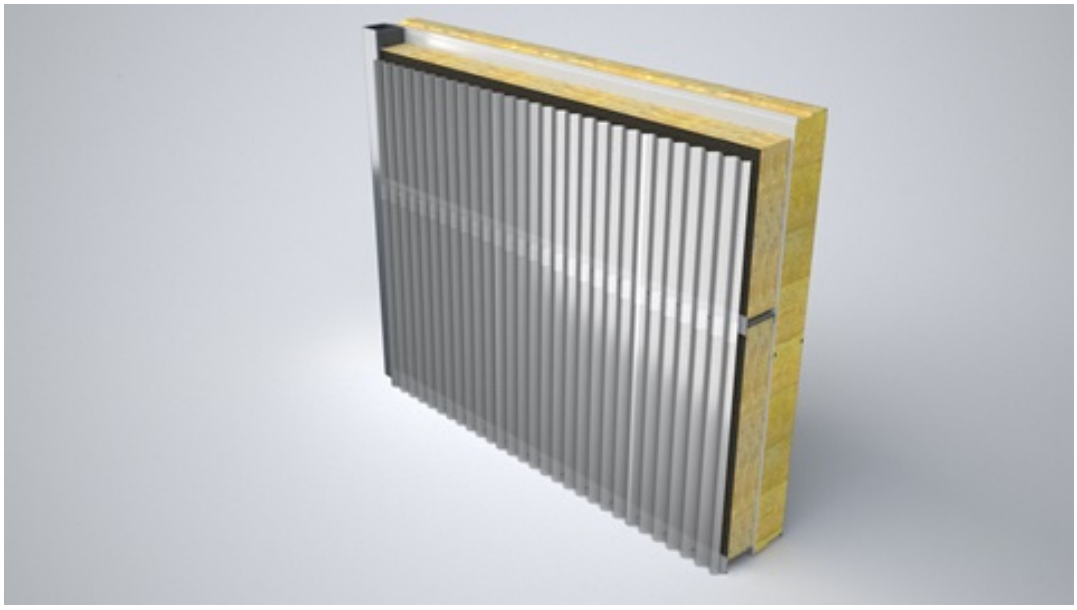
Ruukki acoustic cladding 100 mm

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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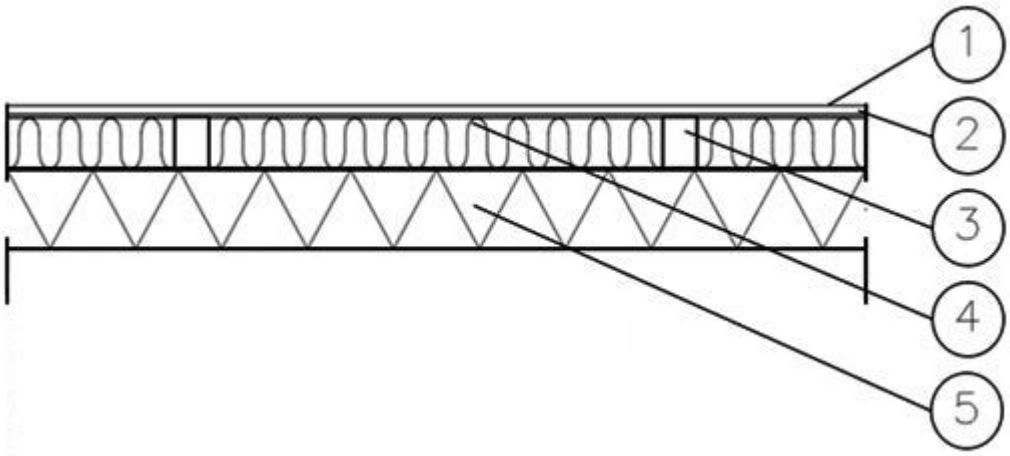
Structure



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

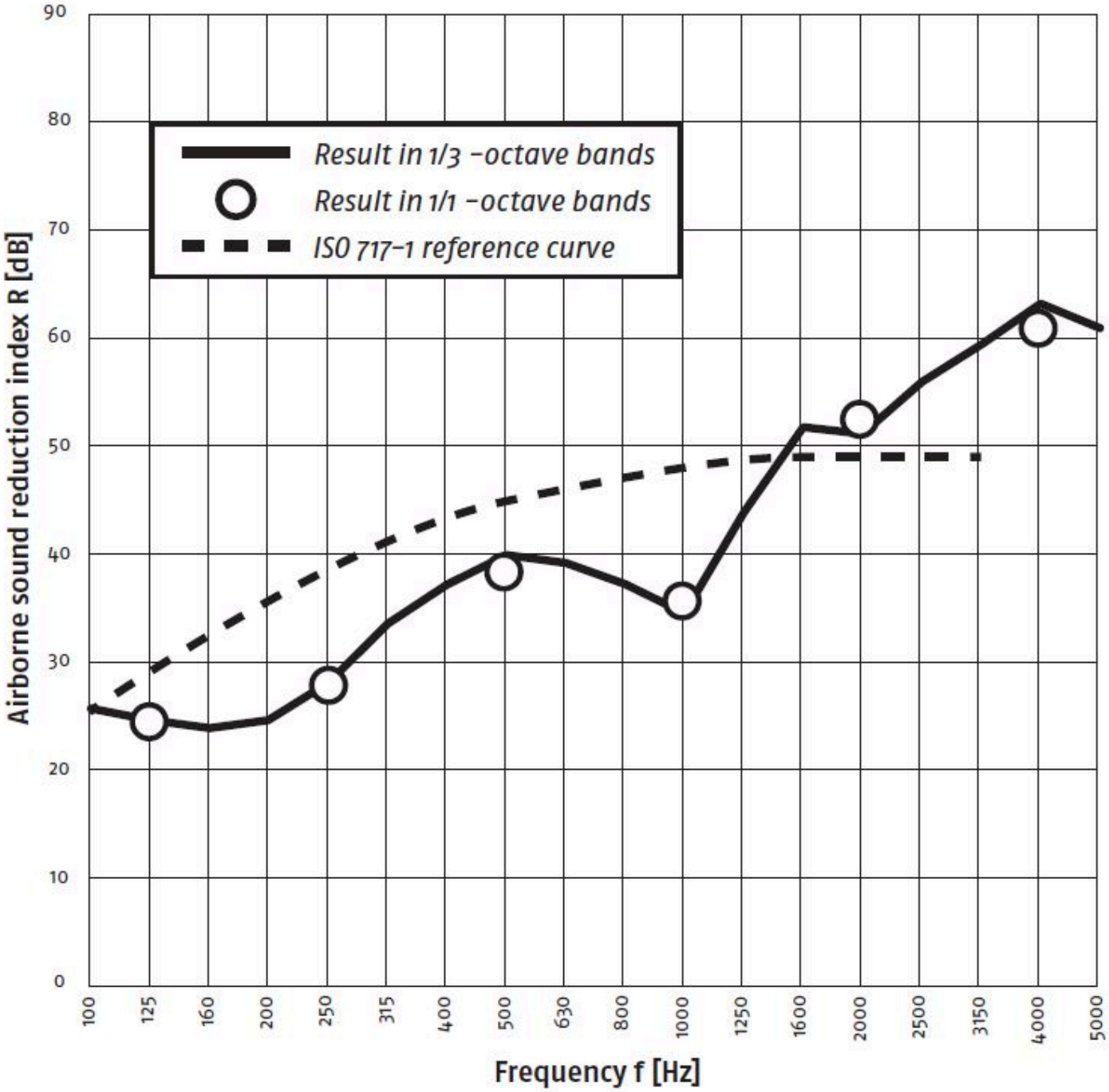
Airborne sound insulation value improvement

(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		

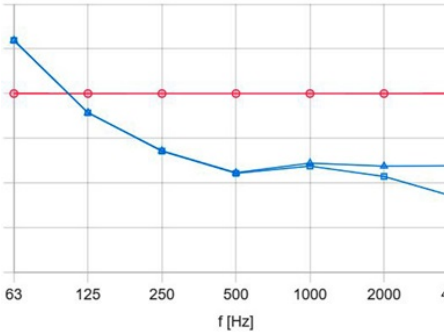
1250	43,0			
1600	51,4			
2000	50,7	52,1		
2500	55,8			
3150	59,1		x	
4000	62,5	60,7	x	
5000	61,1			

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

Zistite, aký materiál je pre vás najlepší. Vyskúšajte našu kalkulačku pre váš ďalší projekt. Pridaním rozmerov budovy a vyplnením nastavení materiálu v nástroji Ruukki Acoustic Estimator môžete zistiť, ktorá konfigurácia produktu poskytuje optimálne výsledky pre váš projekt.

Prejsť na kalkulačku

Stiahnite si BIM objekty do vášho počítača

ProdLib prináša produkty Ruukki ako modely BIM v 3D pre návrhové programy AutoCad, Autodesk Revit, Archicad a Tekla priamo na plochu vášho počítača. Knižnice produktov sústreďujú všetky potrebné návrhové modely a detailné výkresy na jednom mieste. Aktualizácie knižnice sú automaticky oznámené, takže ako používateľ si môžete byť istý, že k dispozícii sú vždy najnovšie informácie o produkte. ProdLib je možné použiť aj ako samostatnú desktopovú aplikáciu.

Prejsť do knižnice BIM

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

Installation instruction

Detail drawings

Accessories

Facade cladding accessories 11_2025 ENG
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

Ruukki Cor-Ten facades - Certification
PDF, 31,8 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

Environmental product declaration

EPD Ruukki colour-coated products
PDF, 1,1 MB

EPD Ruukki LowCarbon colour-coated products
PDF, 0,8 MB