

Ruukki acoustic cladding 50 mm

All Ruukki design and low profiles with 30% continuous perforation and suitable background insulation layer of 50 mm removes flutter echoes between vertical parallel surfaces and improves absorption properties of both wall and ceiling surfaces.

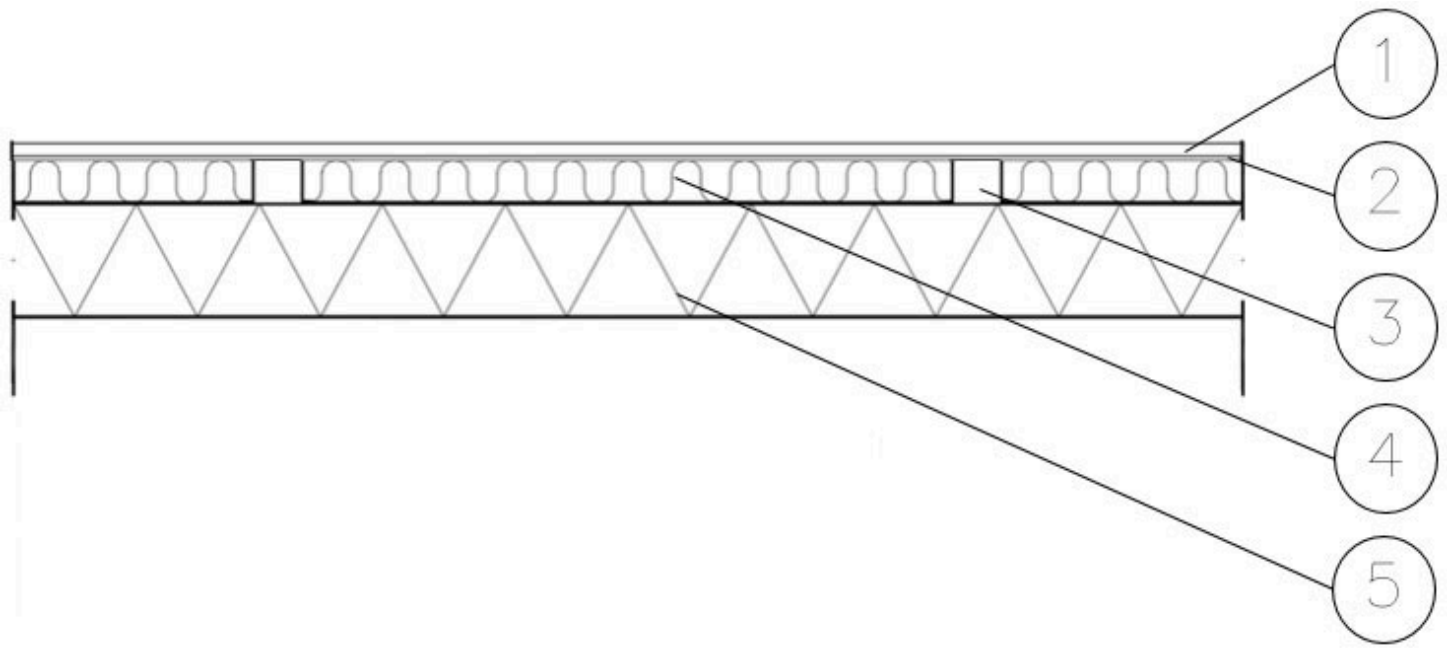
This solution is optionally available with following sustainable features:

- Steel facings made of recycled steel (SSAB Zero) for significantly lower CO₂ 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 = 50 mm, w = 70 mm
- 4. Low density rock wool ~ 25 kg/m³, not in Ruukki delivery
- 5. Base structure: Ruukki sandwich panel (SPA150E) / all kind of base structure

Sound absorption values

Absorption coefficient and class for construction

(Below values valid with all kind of base structure)

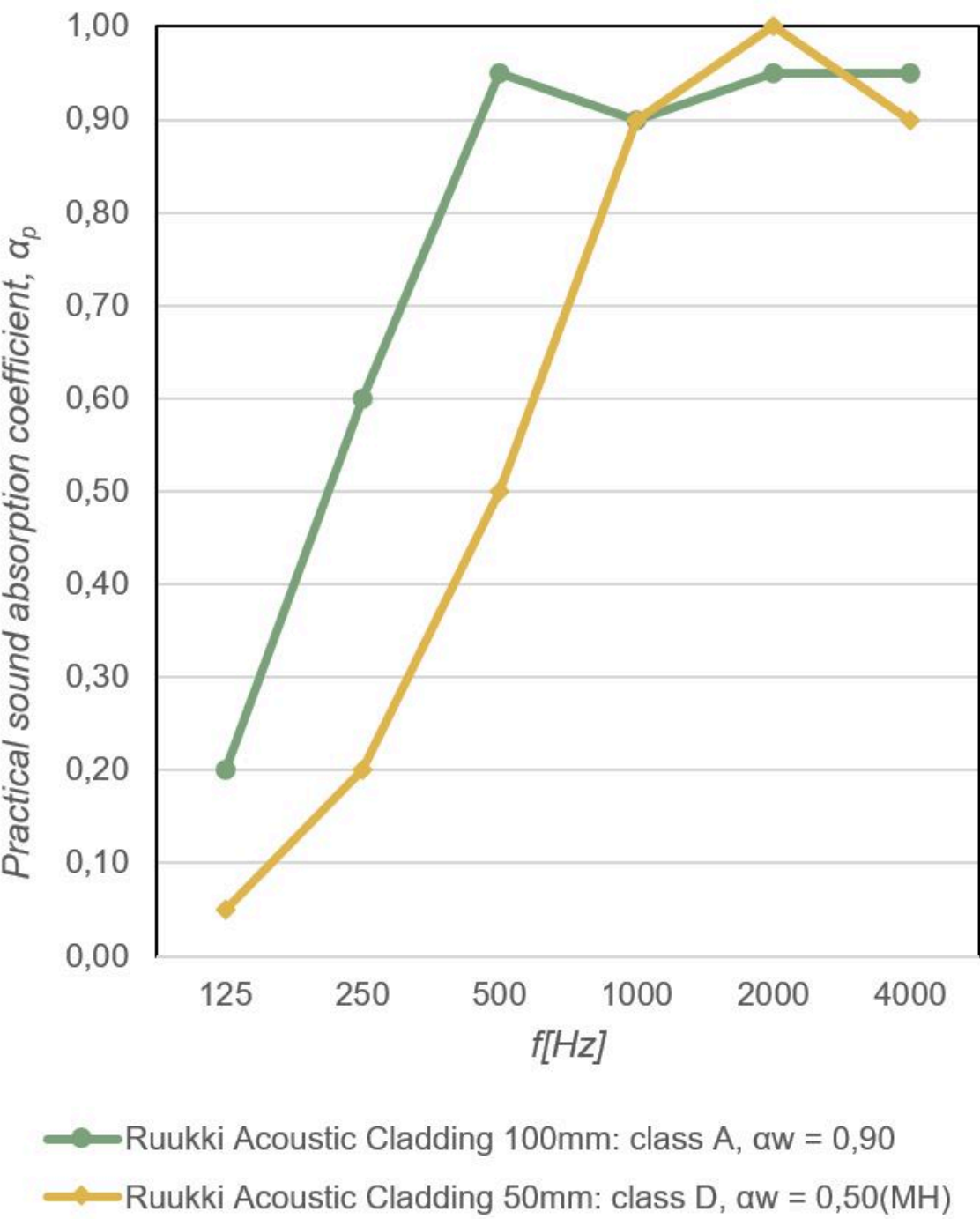
f(Hz)	125	250	500	1000	2000	4000
α_s	0,05	0,22	0,49	0,90	0,98	0,90

Practical sound absorption coefficient α_p

(Ruukki Acoustic Cladding 50mm: class D, $\alpha_w = 0,50$ (MH))

f(Hz)	125	250	500	1000	2000	4000
α_p	0,05	0,20	0,50	0,90	1,00	0,90

Sound absorption performance of Ruukki acoustic claddings 50mm and 100mm



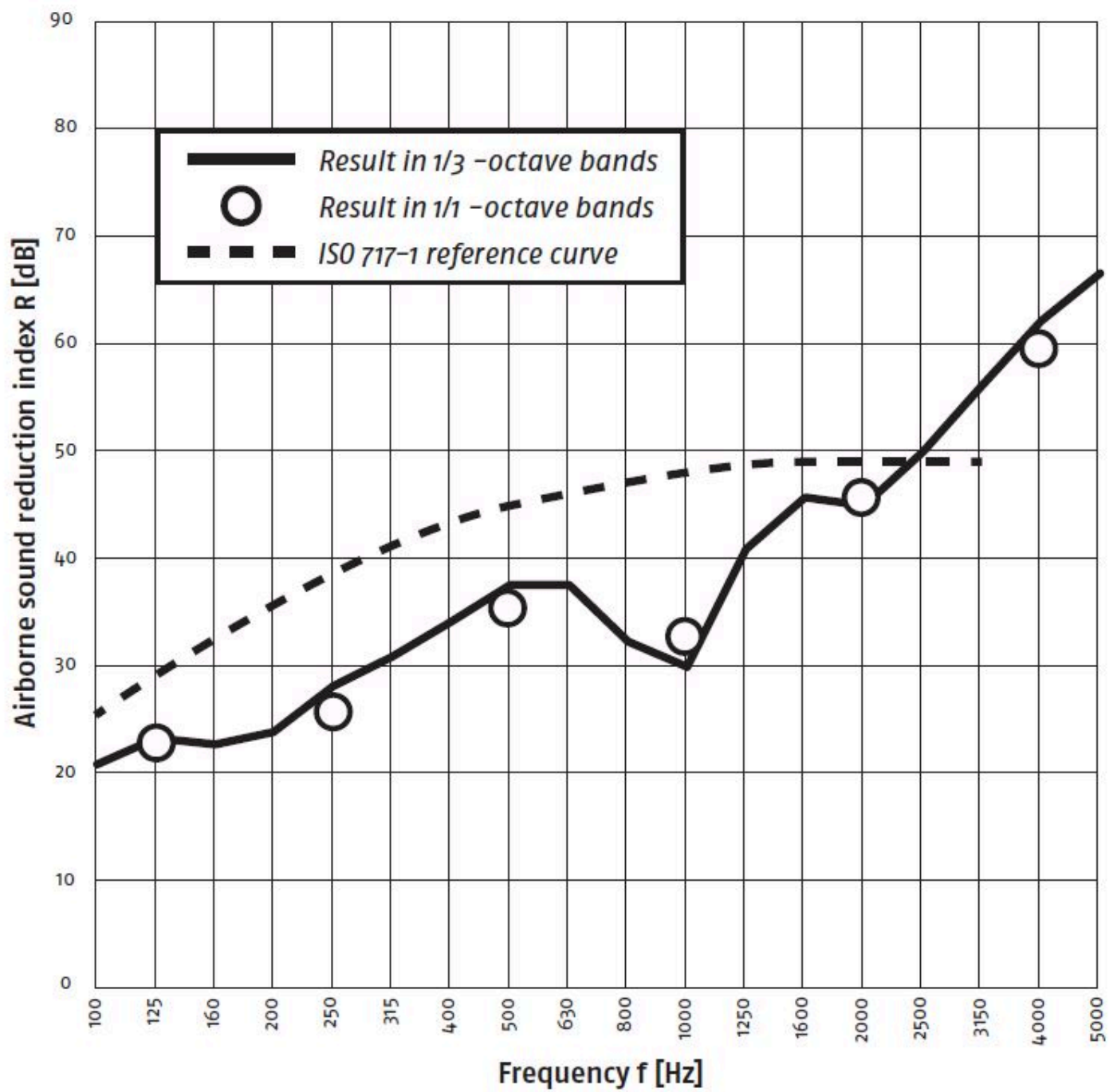
Sound insulation values

Airborne sound insulation value improvement

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

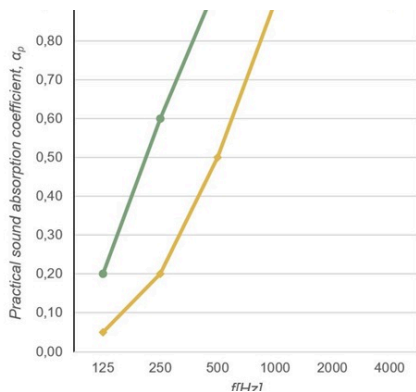
f(Hz)	R(dB) 1/3	R(dB) 1/1	F	B
50	32,2			
63	28,2	19,4		
80	14,9			
100	21,1			
125	23,0	22,1		
160	22,3			
200	23,9			
250	27,9	26,6		
315	30,7			
400	34,2			
500	37,2	36,0		
630	37,5			
800	32,7			
1000	30,0	32,7		
1250	40,5			
1600	46,1			
2000	45,5	46,8		
2500	49,9			
3150	56,3		x	
4000	62,2	59,8	x	
5000	66,6		x	x

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



$$R_w(C;C_{tr}) = 35 \text{ } (-2;-5) \text{ dB}$$

Design tools



Ruukki Acoustic Estimator

Find out what is the best material option for you. Try our estimator for your next project. By adding dimensions of the building, and filling in material settings in the Ruukki Acoustic Estimation tool, you can see which product configuration provides your project with optimal results.

[Go to estimation tool here](#)

Stáhněte si BIM objekty do vašeho počítače

ProdLib přináší produkty Ruukki jako modely BIM ve 3D pro návrhové programy AutoCad, Autodesk Revit, Archicad a Tekla přímo na plochu vašeho počítače. Knihovny produktů soustřeďují všechny potřebné návrhové modely a detailní výkresy na jednom místě. Aktualizace knihoven jsou automaticky oznámeny, takže jako uživatel si můžete být jisti, že k dispozici jsou vždy nejnovější informace o produktu. ProdLib lze také použít jako samostatnou desktopovou aplikaci.

[Přejít do knihovny 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

Design instruction

Installation instruction

Detail drawings

Accessories



Facade cladding accessories 10_2022 ENG

PDF, 4,2 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 10/PP/ZYR - Low profiles

PDF, 56,5 KB



Declaration of Performance 28/PP/VIM - Low profiles

PDF, 42,7 KB



Declaration of Performance 8/PP/VIM - Low profiles

PDF, 43,2 KB

Environmental product declaration