

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.

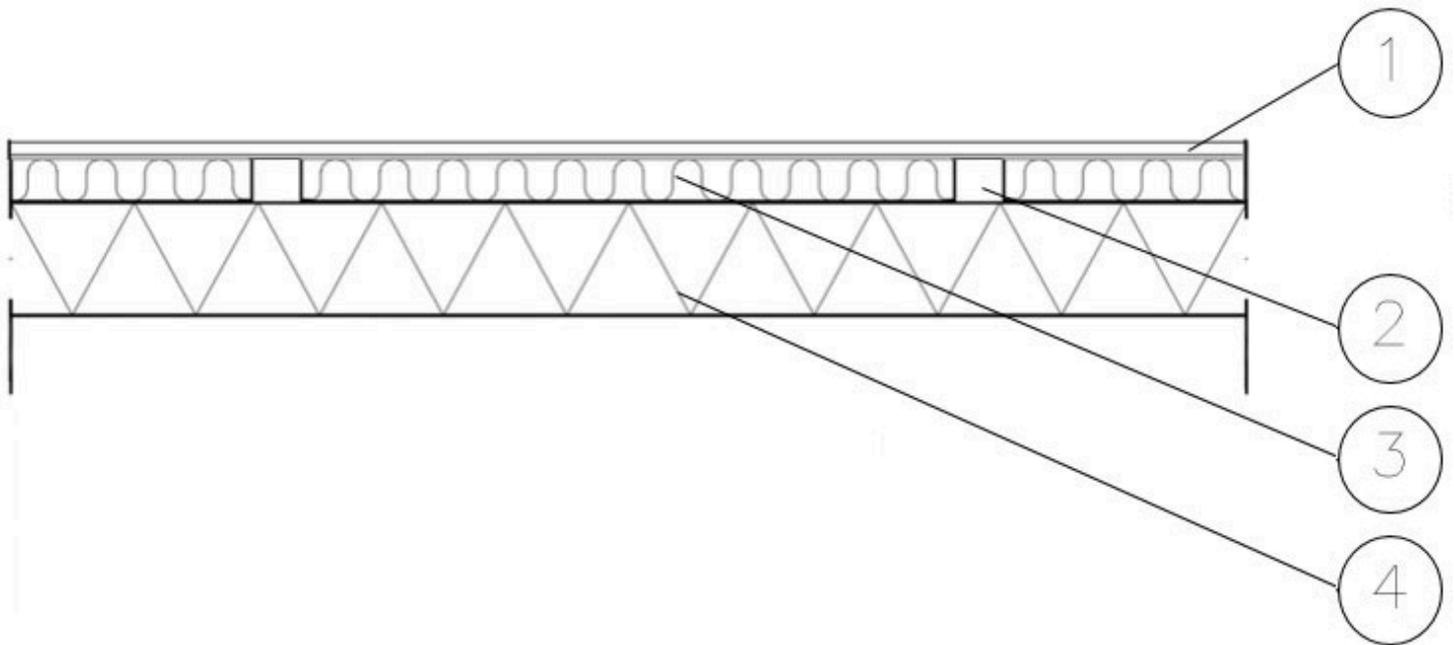
This solution is optionally available with following sustainable features:

- 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. Hat profile 0,6 mm; h = 50 mm, w = 70 mm
3. Rockwool with glass fibre felt ~ 85 kg/m³, 50 mm, not in Ruukki delivery
4. Base structure: Ruukki sandwich panel (SPA150E) / all kind of base structure

| | |
|---|---|
| Thickness | 50 |
| 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 | 0,30 |
| 250 | 0,85 |
| 500 | 1,00 |
| 1000 | 0,95 |
| 2000 | 0,95 |
| 4000 | 0,95 |

Sound insulation values

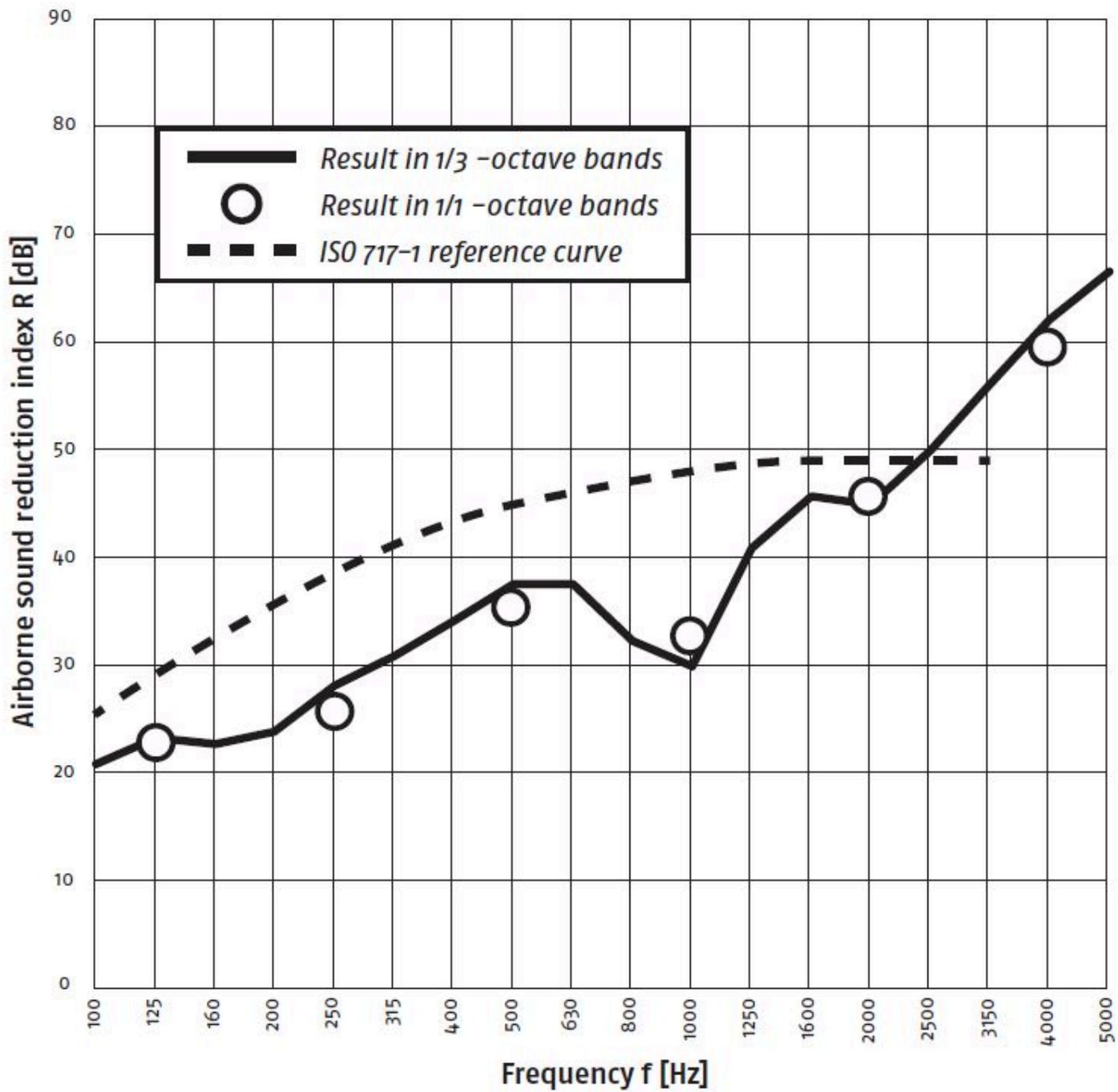
Airborne sound insulation value improvement

(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 | 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 | | | |

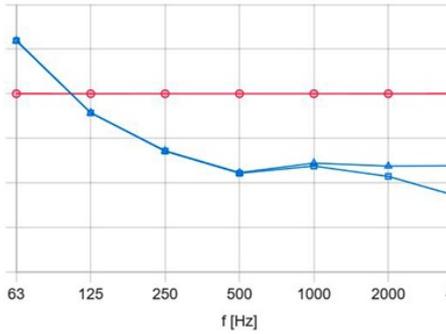
| | | | | |
|------|------|------|---|---|
| 500 | 37,2 | 36,0 | | |
| 630 | 37,5 | | | |
| 800 | 32,7 | | | |
| 1000 | 30,0 | 32,7 | | |
| 1250 | 40,5 | | | |
| 1600 | 46,1 | | | |
| 2000 | 45,5 | 46,8 | | |
| 2500 | 49,9 | | | |
| 3150 | 56,3 | | x | |
| 4000 | 62,2 | 59,8 | x | |
| 5000 | 66,6 | | x | x |

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



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