

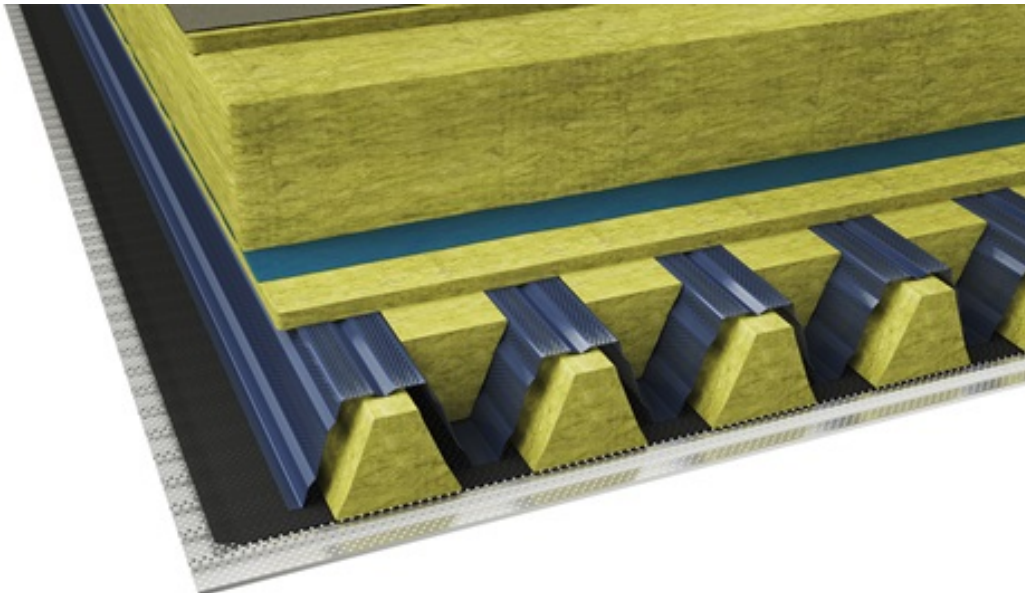
Ruukki T153 4/30 web and flange perforated + acoustic infill + Ruukki T20 3/30 profile with light non-woven layer

Load bearing T153 profile with web and flange perforation is a top class solution to improve roof sound absorption properties to extremely absorbing level. Solution is integrated and efficient as normal mineral wool layers above the sheeting are utilized for sound absorption indoors. There is no need to assemble large amount of sound absorption materials afterwards to cover the structure for acoustic reasons.

By adding Infill product in the load bearing sheeting profile grooves on both sides and separate perforated cladding product underneath with non-woven layer improves absorption properties reaching total sound absorption coefficient $\alpha_w = 1,00$. It does not get much better than this.

This solution is optionally available with following sustainable features:

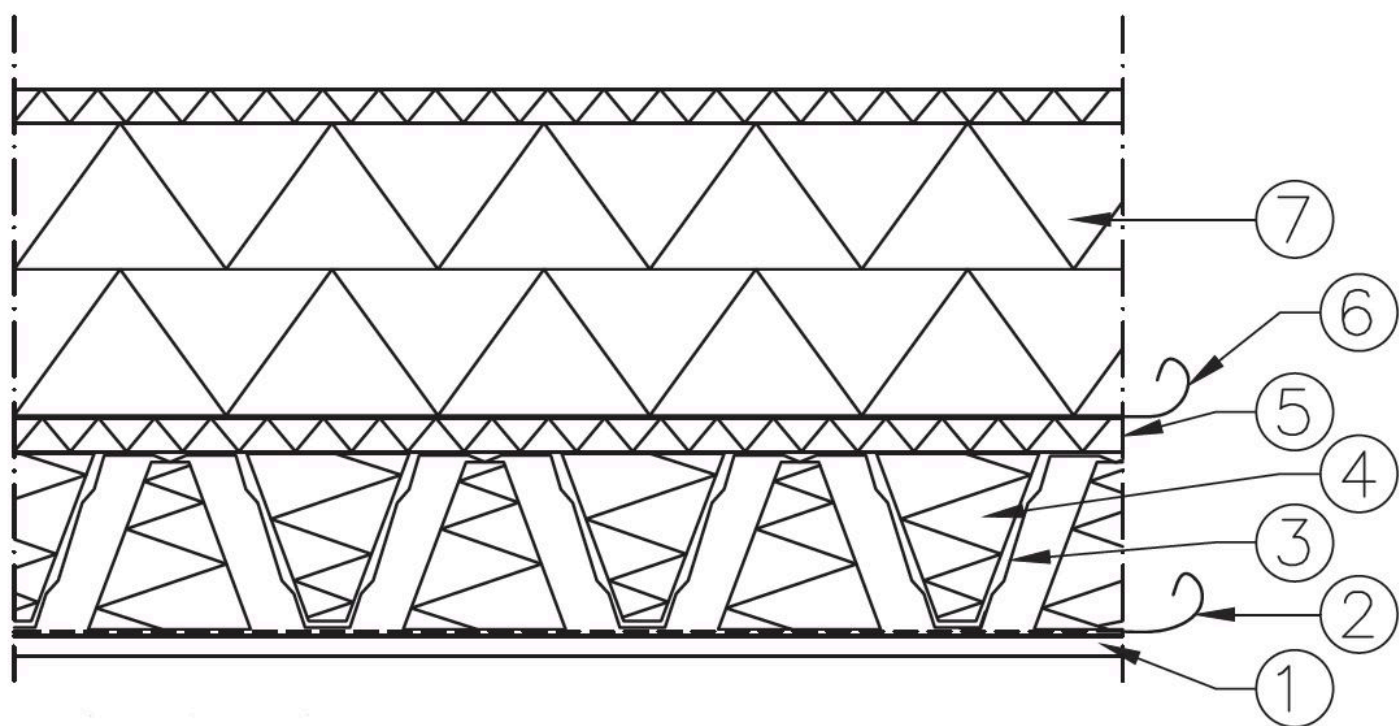
- Steel facings made of recycled steel (SSAB Zero) for significantly lower CO₂ emissions and high circularity (Ruukki LowCarbon)



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Structure



- 1. T20 (perforation 30%), Ruukki delivery
- 2. Nonwoven fabric, Ruukki delivery
- 3. **T153** 4/30 (Perforation 30%), Ruukki delivery
- 4. Acoustic infill with dustproof, Ruukki delivery
- 5. Mineral wool (30 mm), needed for acoustic performance
- 6. Vapor barrier
- 7. Mineral wool (total of 130-400 mm)

Sound absorption values

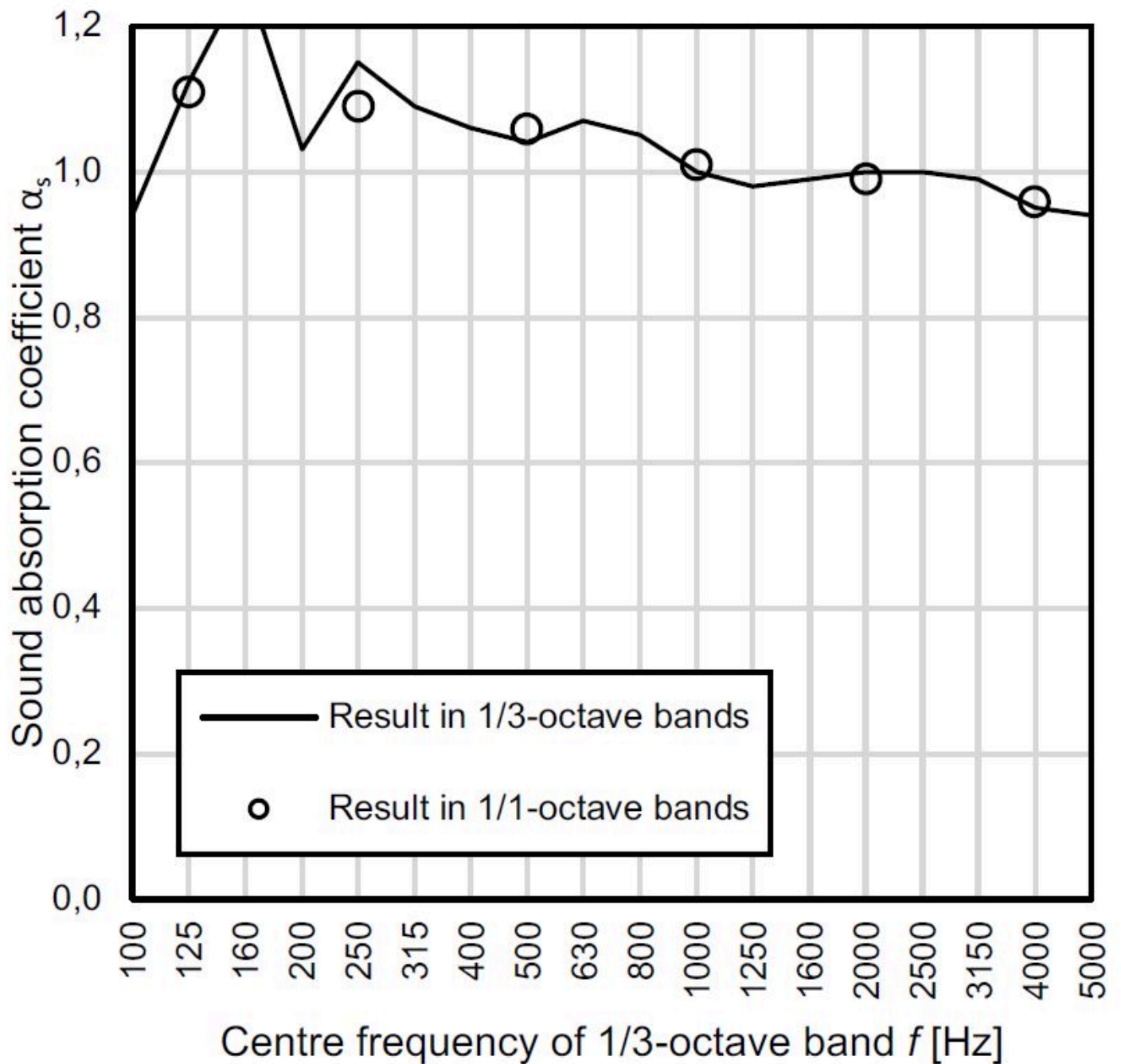
Absorption coefficient and class for construction

Class A, α_w 1,00

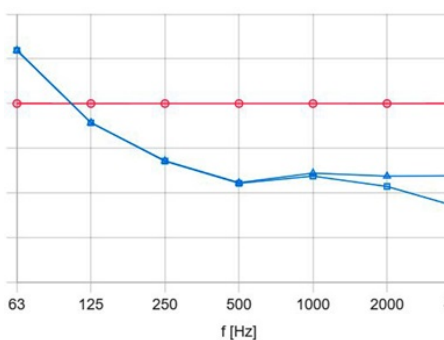
f(Hz)	α_s 1/3	α_s 1/1	α_p 1/1
100	0,94	1,11	1,00

125	1,12	1,11	1,00
160	1,27	1,11	1,00
200	1,03	1,09	1,00
250	1,15	1,09	1,00
315	1,09	1,09	1,00
400	1,06	1,06	1,00
500	1,04	1,06	1,00
630	1,07	1,06	1,00
800	1,05	1,01	1,00
1000	1,00	1,01	1,00
1250	0,98	1,01	1,00
1600	0,99	0,99	1,00
2000	1,00	0,99	1,00
2500	1,00	0,99	1,00
3150	0,99	0,96	0,95
4000	0,95	0,96	0,95
5000	0,94	0,96	0,95

Note: Sound absorption values apply with insulation thickness 130 - 400 mm



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](#)



Poimu software for dimensioning load-bearing sheets

Dimensioning software, Poimu, allows you to optimise product choice according to the Eurocode. Simply by defining some basic input data you can select a load-bearing sheet for their needs from Ruukki's selection. This quick optimisation tool covers 1-, 2-span and continuous structures and gives the exact solution as to what sheet should be used, as well as its length.

[Go to Poimu software](#)



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 09_2022

PDF, 1.5 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



Acoustic cladding structure drawing

DWG, 313.5 KB



Acoustic cladding structure drawing

PDF, 389.1 KB



Ruukki load-bearing sheet drawings 12022024

PDF, 0.6 MB



Ruukki load-bearing sheet drawings 12022024

ZIP, 7.8 MB

Accessories



Facade cladding accessories 10_2022

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



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, 56.5 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



Declaration of Performance 25/PP/PAR - Cladding products

PDF, 43.7 KB

Environmental product declaration



EPD Facade claddings 03_2023

PDF, 3.5 MB



RTS-EPD_49-20_RC_Colour_coated_EN

PDF, 1.0 MB



RTS_EPD_48-20_RC_Hot_dip_galvanised_EN

PDF, 0.5 MB