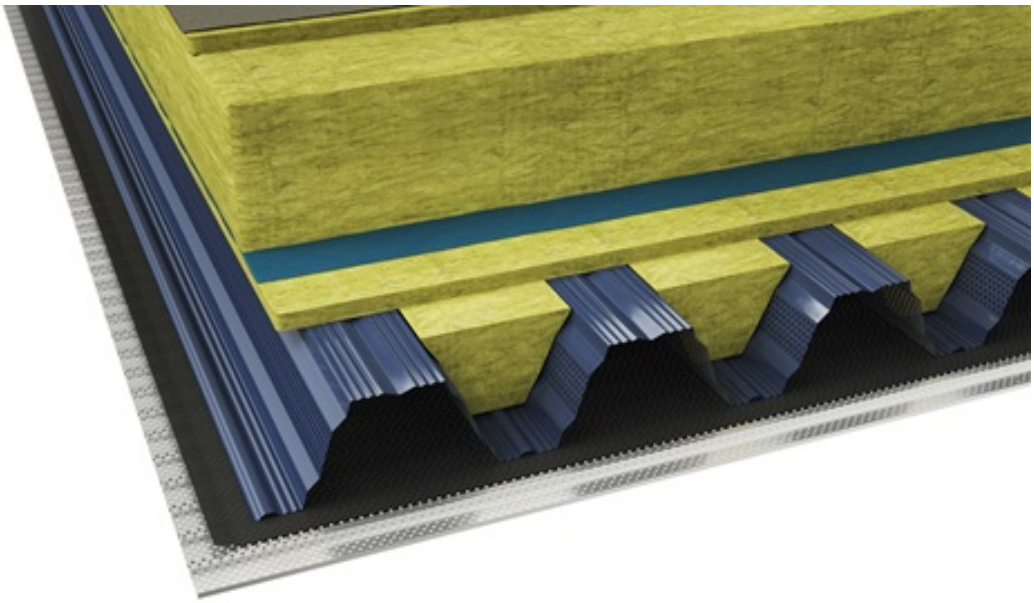
Ruukki T130M 3/15 web perforated + acoustic infill + Ruukki T20 3/30 profile with light non-woven layer

Load bearing T130M profile with web perforation is a **classical solution** to improve roof absorption properties. Solution is integrated and efficient as normal mineral wool layers above the sheeting are utilized for sound absorption indoors.

By adding Infill product in the load bearing sheeting profile groove and separate perforated cladding product underneath with a light weight non-woven fabric layer doubles the average sound absorption coefficient to improve ceiling form absorbing to highly absorbing level.

Ruukki® LowCarbon
Also available as Ruukki® LowCarbon, helping to reduce embodied carbon and made with high recycled content. See the Ruukki® LowCarbon pages and product-specific EPDs for details.

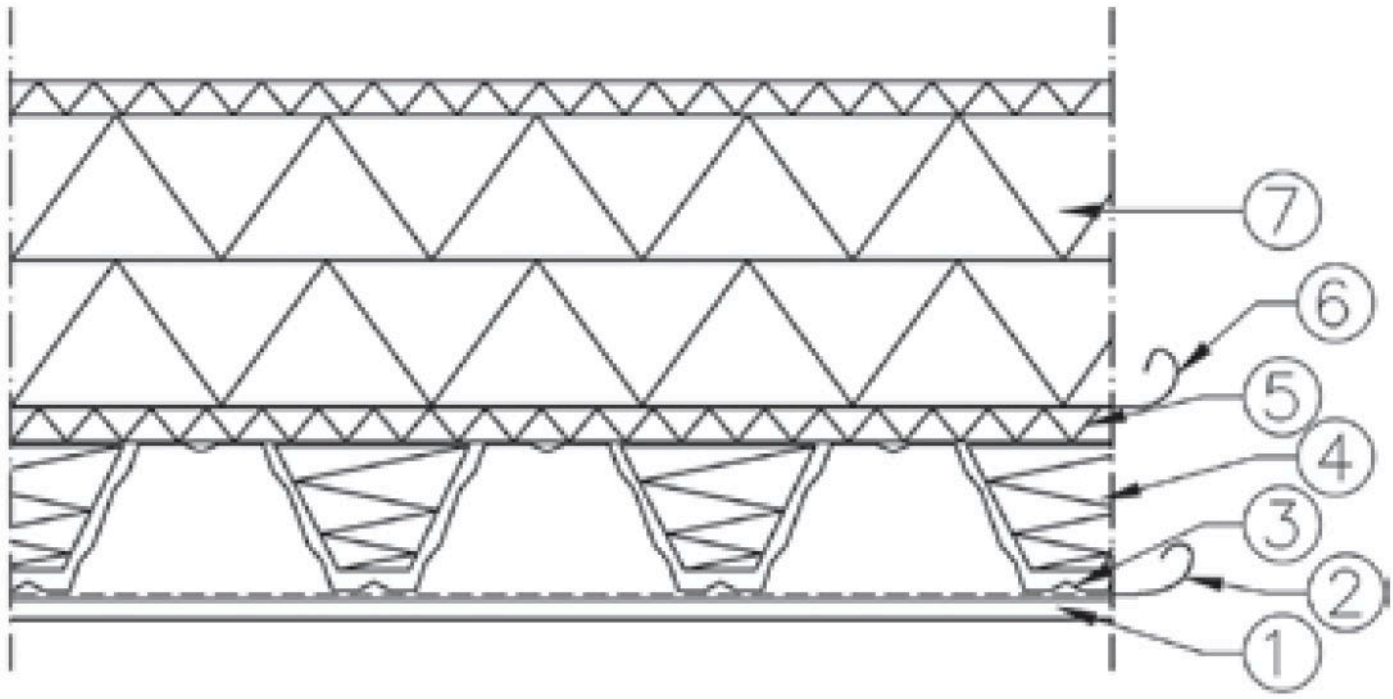
Availability and delivery time for different thickness/coating combinations varies.



SEND CONTACT REQUEST

The information on our website is accurate to the best of our knowledge and understanding. Although every effort has been made to ensure accuracy, the company cannot accept any responsibility for any direct or indirect damages resulting from possible errors or incorrect application of the information of this publication. We reserve the right to make changes.

Structure



1. T20 (perforation 30%), Ruukki delivery
2. Nonwoven fabric, Ruukki delivery
3. T130M (Perforation 15%), 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

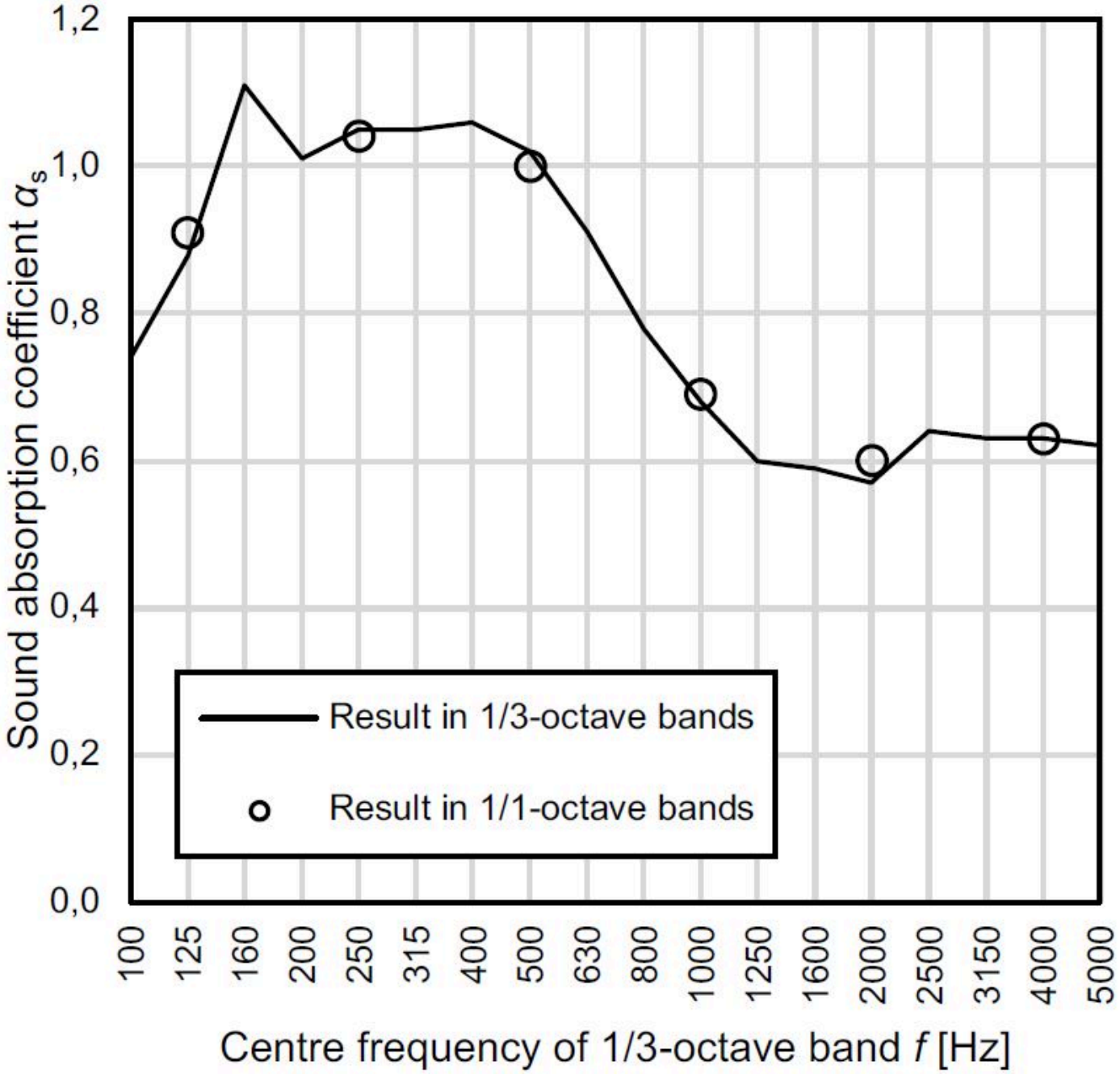
Absorption coefficient and class for construction

Class C, α_w 0,70

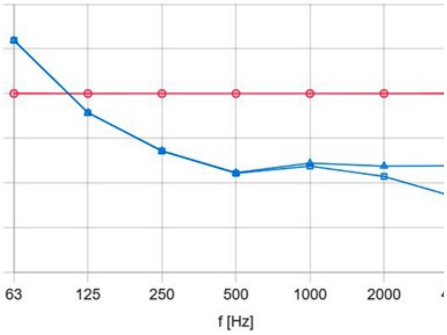
f(Hz)	α_s 1/3	α_s 1/1	α_p 1/1

100	0,74	0,90	0,90
125	0,88	0,90	0,90
160	1,11	0,90	0,90
200	1,01	1,04	1,00
250	1,05	1,04	1,00
315	1,05	1,04	1,00
400	1,06	1,00	1,00
500	1,02	1,00	1,00
630	0,91	1,00	1,00
800	0,78	0,69	0,70
1000	0,68	0,69	0,70
1250	0,60	0,69	0,70
1600	0,59	0,60	0,60
2000	0,57	0,60	0,60
2500	0,64	0,60	0,60
3150	0,63	0,63	0,65
4000	0,63	0,63	0,65
5000	0,63	0,63	0,65

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


1,2
1,0
0,8
0,6
0,4
0,2
0,0
Sound absorption coefficient α_s
Result in 1/3-octave bands
Result in 1/1-octave bands
100
125
160
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
Centre frequency of 1/3-octave band f [Hz]

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 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

SPA acoustic Rw structure types 08_2026
DWG, 0.6 MB

SPA acoustic Rw structure types 08_2026
PDF, 3.6 MB

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