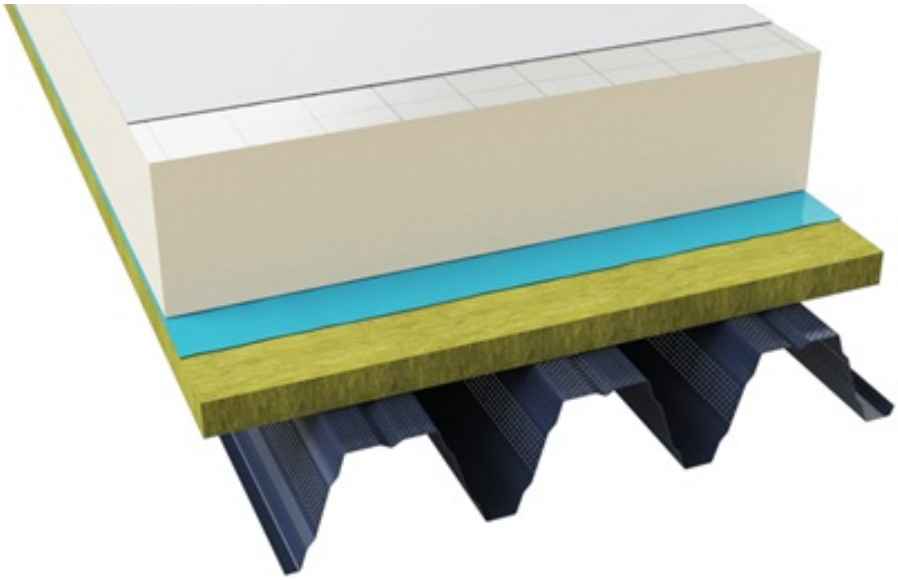
Ruukki T153Acub 4/30 Web and flange perforated - PIR

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 ceiling structure for acoustic reasons.

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

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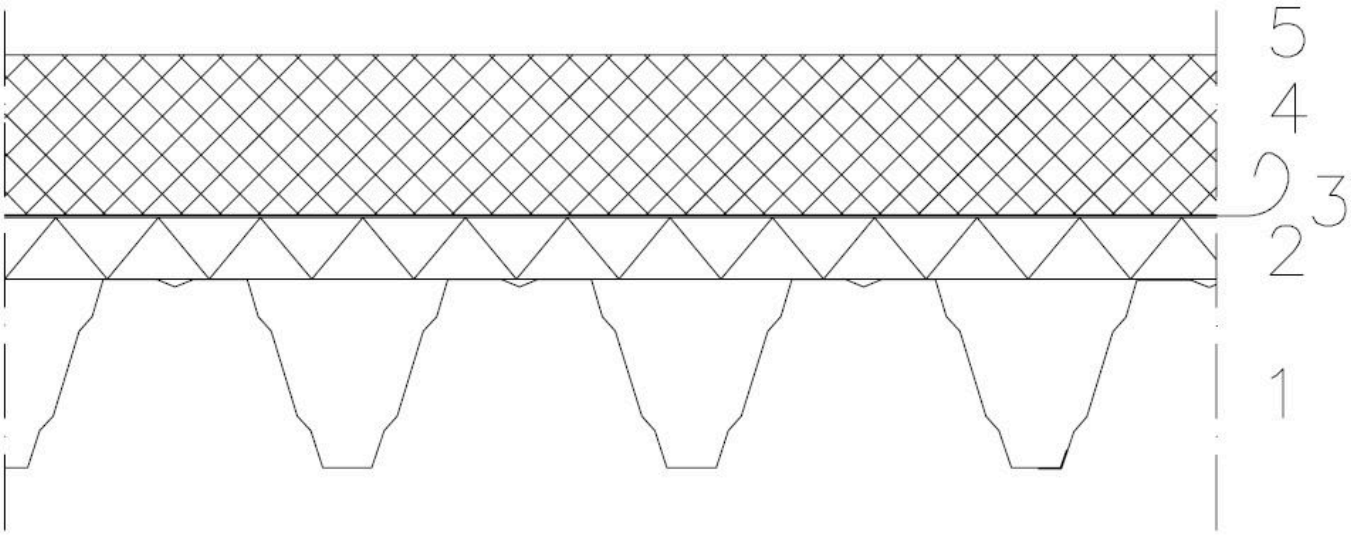
Structure



1. T153AcuB (web and flange perforated 4 mm/30%)
2. Absorption layer: Dust proof mineral wool 30/50 mm, density > 120 kg/m^3
3. Vapor barrier, e.g. PE, t= 0,2 mm
4. PIR insulation 130...220 mm, density 30...40 kg/m^3
5. Upper layer and roof membrane according to project

Sound absorption values

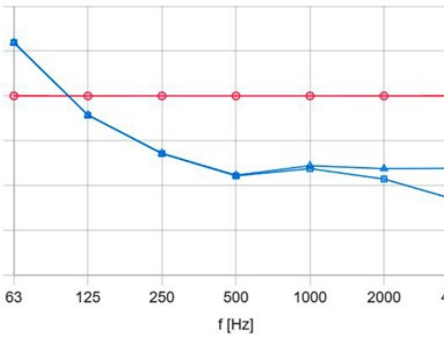
Absorption coefficient and class for construction

Class C, α_w 0,75 (Absorption layer thickness 30 mm)
Class B, α_w 0,80 (Absorption layer thickness 50 mm)

f(Hz) Absorption layer thickness	α_p 30 mm	α_p 50 mm
125	0,15	0,35
250	0,55	1,00
500	0,90	0,95

1000	0,75	0,80
2000	0,75	0,75
4000	0,70	0,70

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