

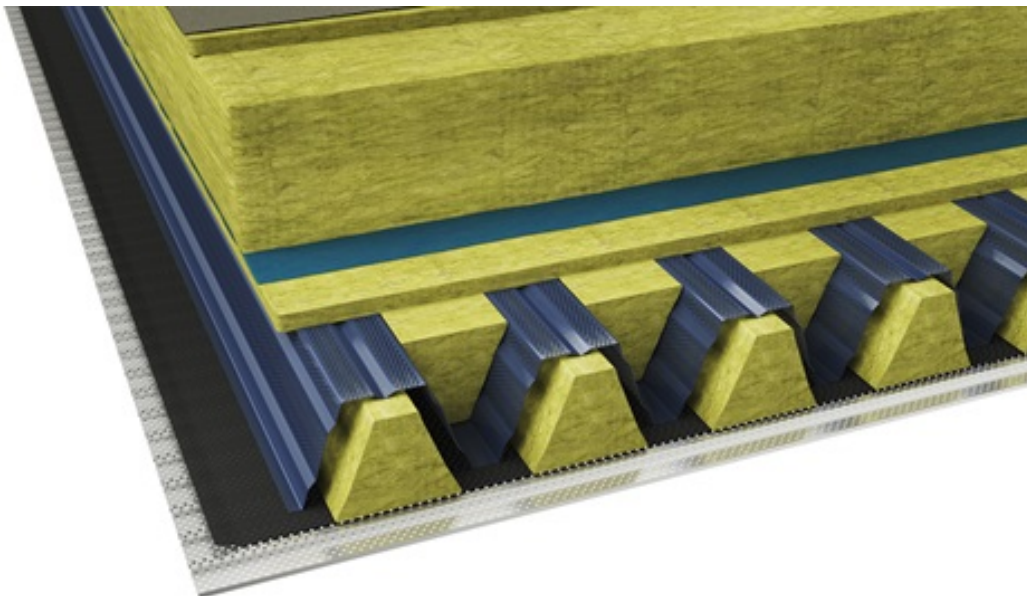
# Ruukki T153AcuB - web and flange perforated + infills both sides + Ruukki T20 3/30 profile - Mineral wool

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:**

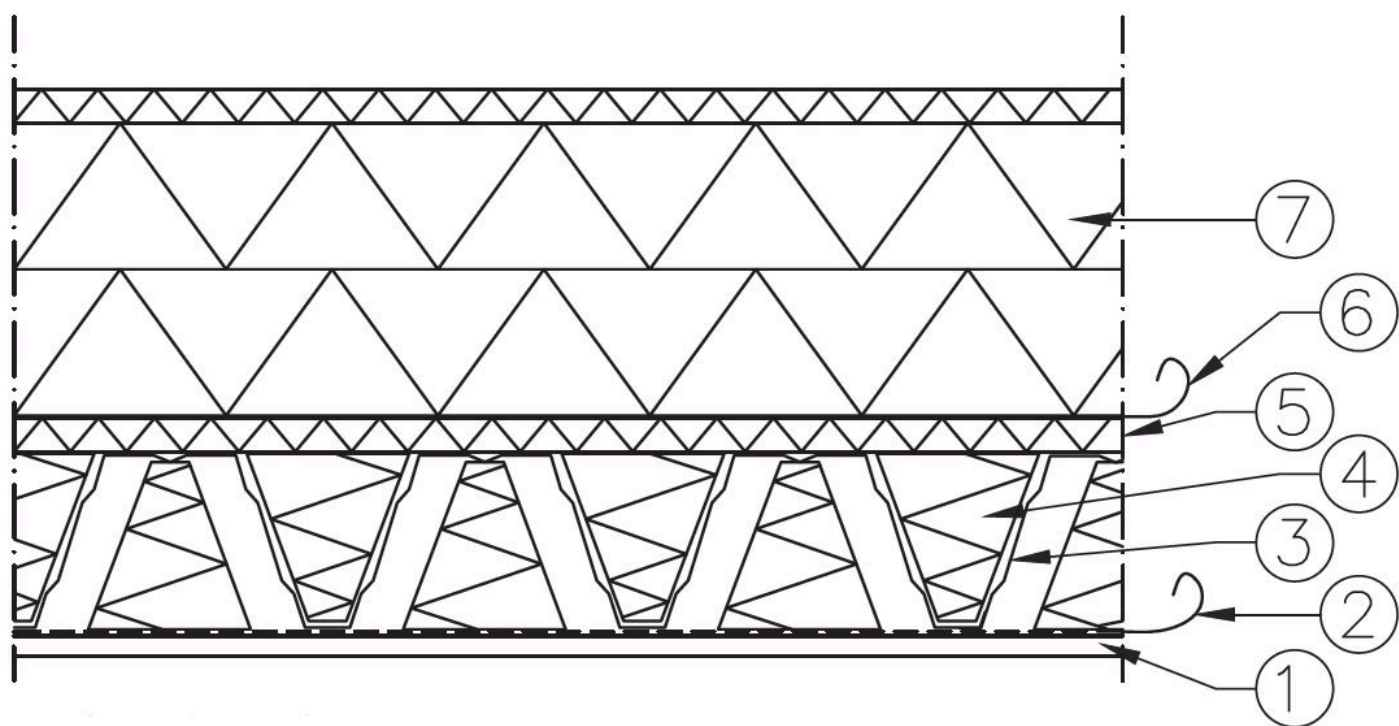
- Steel facings made of recycled steel (SSAB Zero) for significantly lower CO<sub>2</sub> emissions and high circularity (Ruukki LowCarbon)



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# Structure



- 1. T20 (perforation 30%), Ruukki delivery
- 2. Nonwoven fabric, Ruukki delivery
- 3. T153 AcuB 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

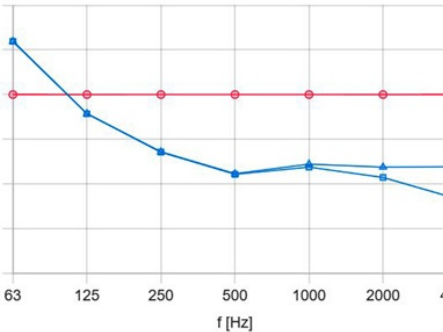
### Absorption coefficient and class for construction

Class A,  $\alpha_w$  1,00

f(Hz)	$\alpha_p$ 1/1
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125	1,00
250	1,00
500	1,00
1000	1,00
2000	1,00
4000	0,95

## 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



### **Load bearing sheets absorption structures**

PDF, 281.8 KB



### **Load bearing sheet absorption structures**

DWG, 405.7 KB



### **Acoustic cladding structure drawing**

DWG, 313.5 KB



### **Acoustic cladding structure drawing**

PDF, 389.1 KB

## Accessories



### **Facade cladding accessories 02\_2025**

PDF, 4.1 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