

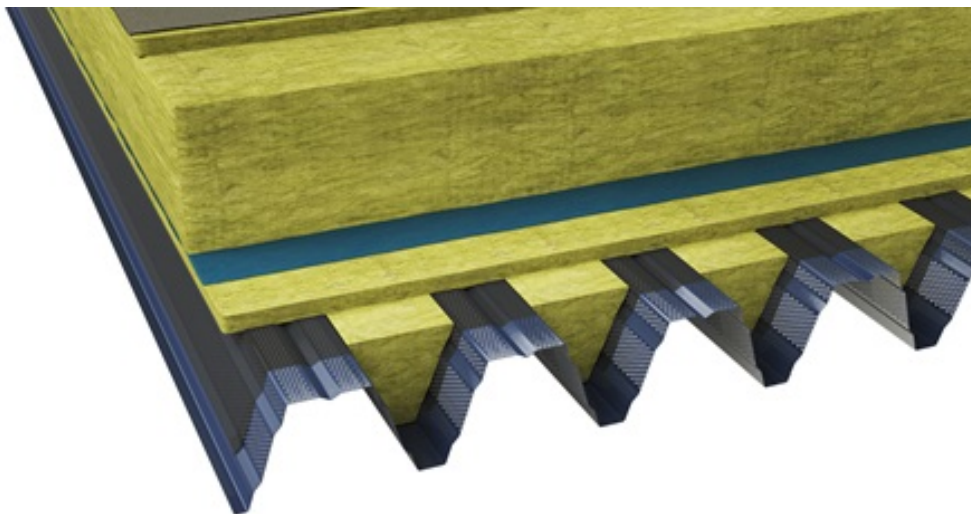
Ruukki T153 4/30 web and flange perforated + acoustic infill

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.

Infill product in the profile groove improves sound absorption coefficient about 10 % to reach sound absorption class A level, $\alpha_w = 0.9$. It improves also roof thermal insulation properties.

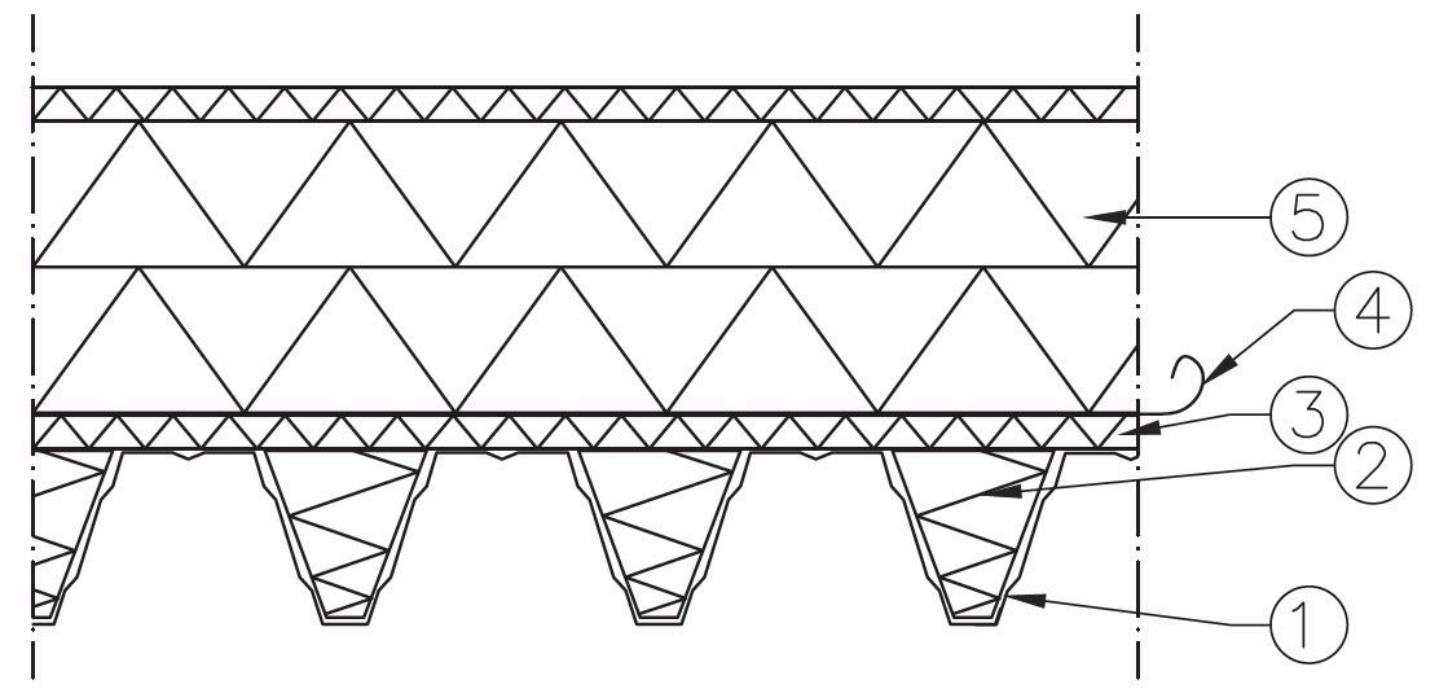
This solution is optionally available with following sustainable features:

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



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Structure



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

Sound absorption values

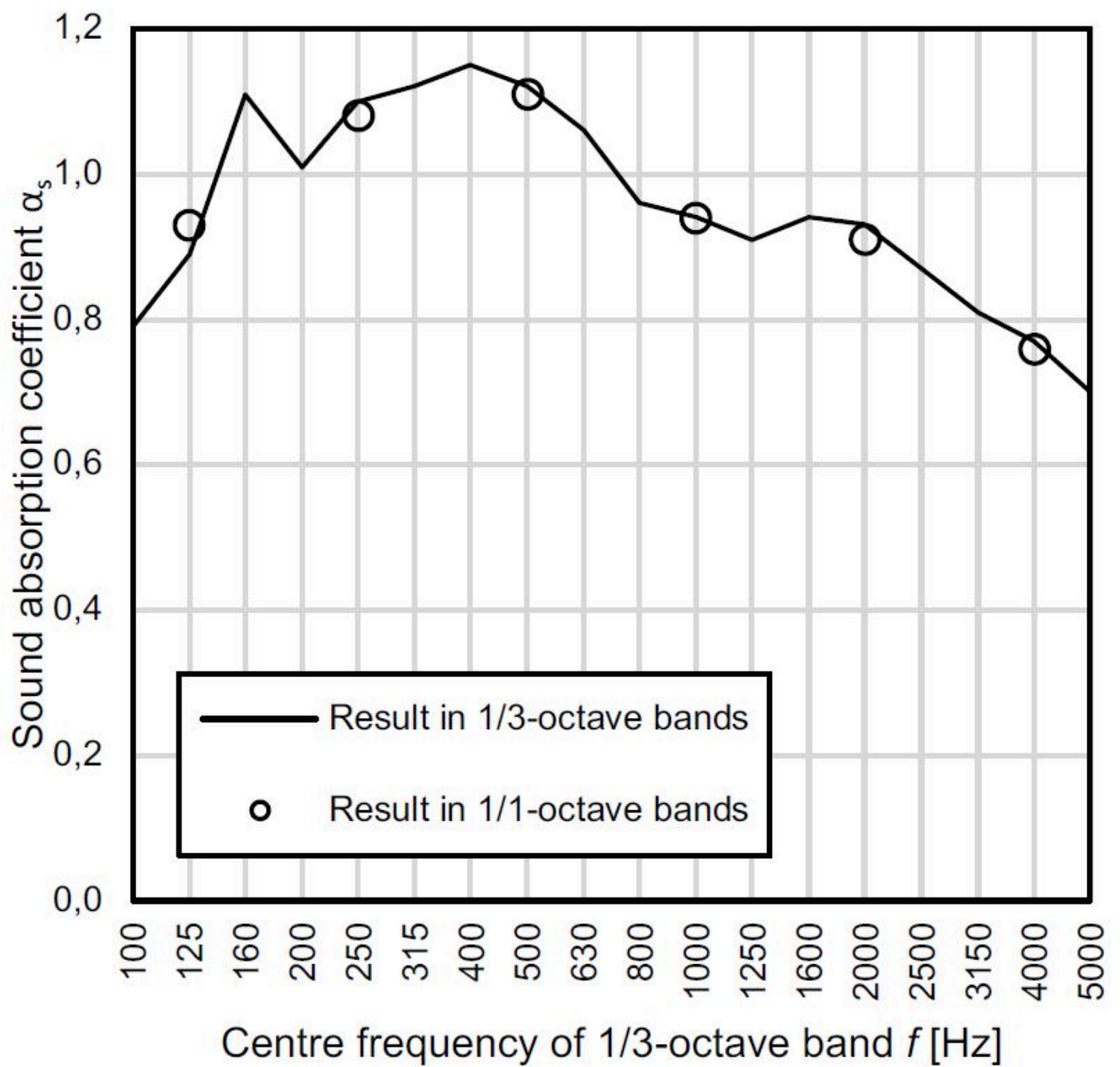
Absorption coefficient and class for construction

Class A, α_w 0,90

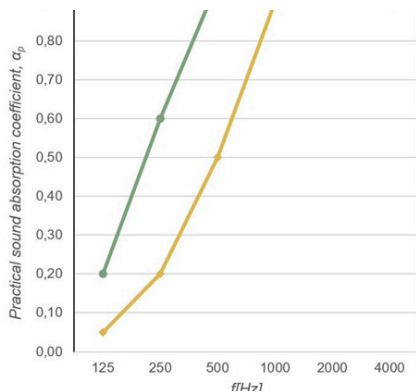
f(Hz)	α_s 1/3	α_s 1/1	α_p 1/1
100	0,79	0,93	0,95
125	0,89	0,93	0,95
160	1,11	0,93	0,95
200	1,01	1,08	1,00

250	1,10	1,08	1,00
315	1,12	1,08	1,00
400	1,15	1,11	1,00
500	1,12	1,11	1,00
630	1,06	1,11	1,00
800	0,96	0,94	0,95
1000	0,94	0,94	0,95
1250	0,91	0,94	0,95
1600	0,94	0,91	0,90
2000	0,93	0,91	0,90
2500	0,87	0,91	0,90
3150	0,81	0,76	0,75
4000	0,77	0,76	0,75
5000	0,70	0,76	0,75

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



Design tools



Ruukki Acoustic Estimator

Find out what is the best material option for you. Try our estimator for your next project. By adding dimensions of the building, and filling in material settings in the Ruukki Acoustic Estimation tool, you can see which product configuration provides your project with optimal results.

[Go to estimation tool here](#)

Stiahnite si BIM objekty do vášho počítača

ProdLib prináša produkty Ruukki ako modely BIM v 3D pre návrhové programy AutoCad, Autodesk Revit, Archicad a Tekla priamo na plochu vášho počítača. Knižnice produktov sústreďujú všetky potrebné návrhové modely a detailné výkresy na jednom mieste. Aktualizácie knižnice sú automaticky oznámené, takže ako používateľ si môžete byť istý, že k dispozícii sú vždy najnovšie informácie o produkte. ProdLib je možné použiť aj ako samostatnú desktopovú aplikáciu.

[Prejsť do knižnice BIM](#)



Software Poimu pre dimenzovanie nosných trapézových profilov

Software Poimu vám umožňuje optimalizovať výber produktov podľa Eurokódu. Jednoducho, zadefinovaním niektorých základných vstupných údajov viete zvoliť potrebný nosný profil z ponuky Ruukki. Tento rýchly optimalizačný nástroj zahŕňa 1-, 2- a viac- polové konštrukcie a poskytuje presné riešenie, aký profil a v akej dĺžke by sa mal použiť.

[Prejsť k softvéru Poimu](#)

Technical documents

Here you can find all technical documents related to Ruukki's sound environment solutions. Documents are organised by document type.

Product description

Design instruction

Installation instruction

Detail drawings

Accessories



Facade cladding accessories 10_2022 ENG

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



Ruukki Cor-Ten facades - Certification

PDF, 31,8 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

Environmental product declaration