

Ruukki® Sono

Acoustic element



Ruukki® Sono – acoustic element

Ruukki® Sono element is part of the Ruukki® Acoustic Environment Solution. The element offers the best sound absorption on the market and improves acoustic comfort in offices, sports and multipurpose buildings, as well as industrial environments, creating a calmer and more productive atmosphere. It is suitable for use in both new constructions and as additional structure in dry indoor spaces.

TECHNICAL PROPERTIES

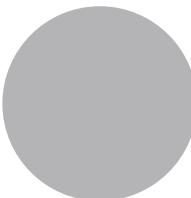
- Nominal width of the element: 1200 mm, can be split into for example 2 x 600 mm
- Thicknesses: 100 mm and 150 mm
- Standard length of the element: 2000–9000 mm
- Installation direction: Horizontal or vertical
- Thermal insulation: U-value (W/m²K) 0.40 / 100 mm
- Reaction to fire: C1-s1, d0
- Fire resistance of the element: EI30 (4 m horizontal installation)

COATINGS AND COLORS

Polyester coated steel, stock colors:



RR20 WINTER WHITE



RR21 PEBBLE GREY

Other standard colors and coatings, minimum delivery quantity 150 m².

PROFILE OPTIONS



RIB 150 -PROFILE



RIB 200 -PROFILE



RIB 600 -PROFILE



FLAT

ELEMENT AS A PARTITION WALL



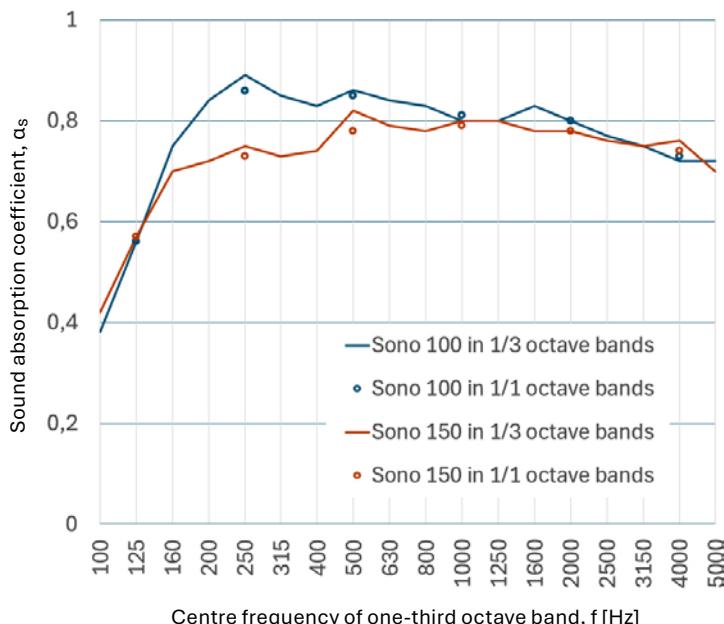
ACOUSTIC PERFORMANCE

- Sound attenuation: Excellent acoustic performance α_w up to 0.85
- Sound absorption class: B
- Airborne sound insulation: 32...33 dB

Sound absorption values

(according to EN ISO 354 and ISO 11654)

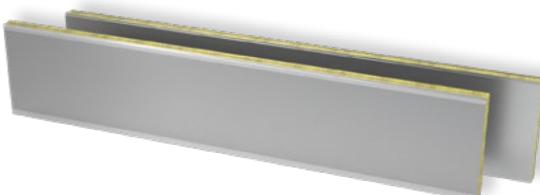
	Sono 100	Sono 150
Frequency [Hz]	α_p	α_p
125	0,55	0,55
250	0,85	0,75
500	0,85	0,75
1000	0,80	0,80
2000	0,80	0,80
4000	0,75	0,75
α_w	0,85	0,80
Class	B	B



Airborne sound insulation

(according to ISO 10140-2:2022 and ISO 717-1:2020)

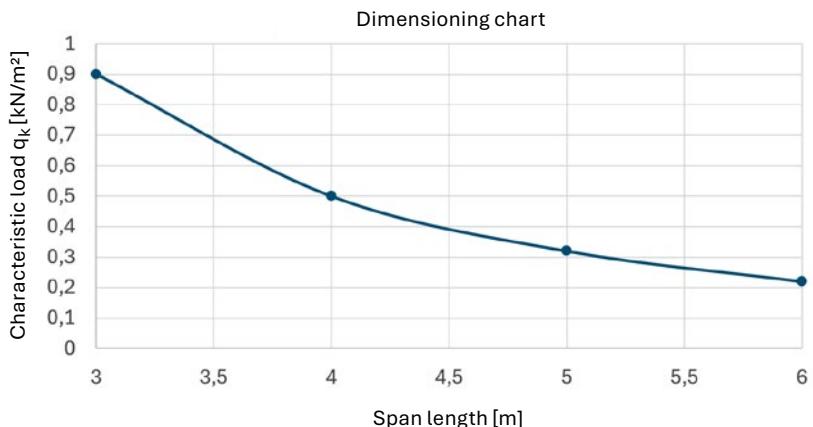
	Sono 100	Sono 150
R_w	32 dB	33 dB
R_w+C	30 dB	30 dB
R_w+C_{tr}	28 dB	29 dB



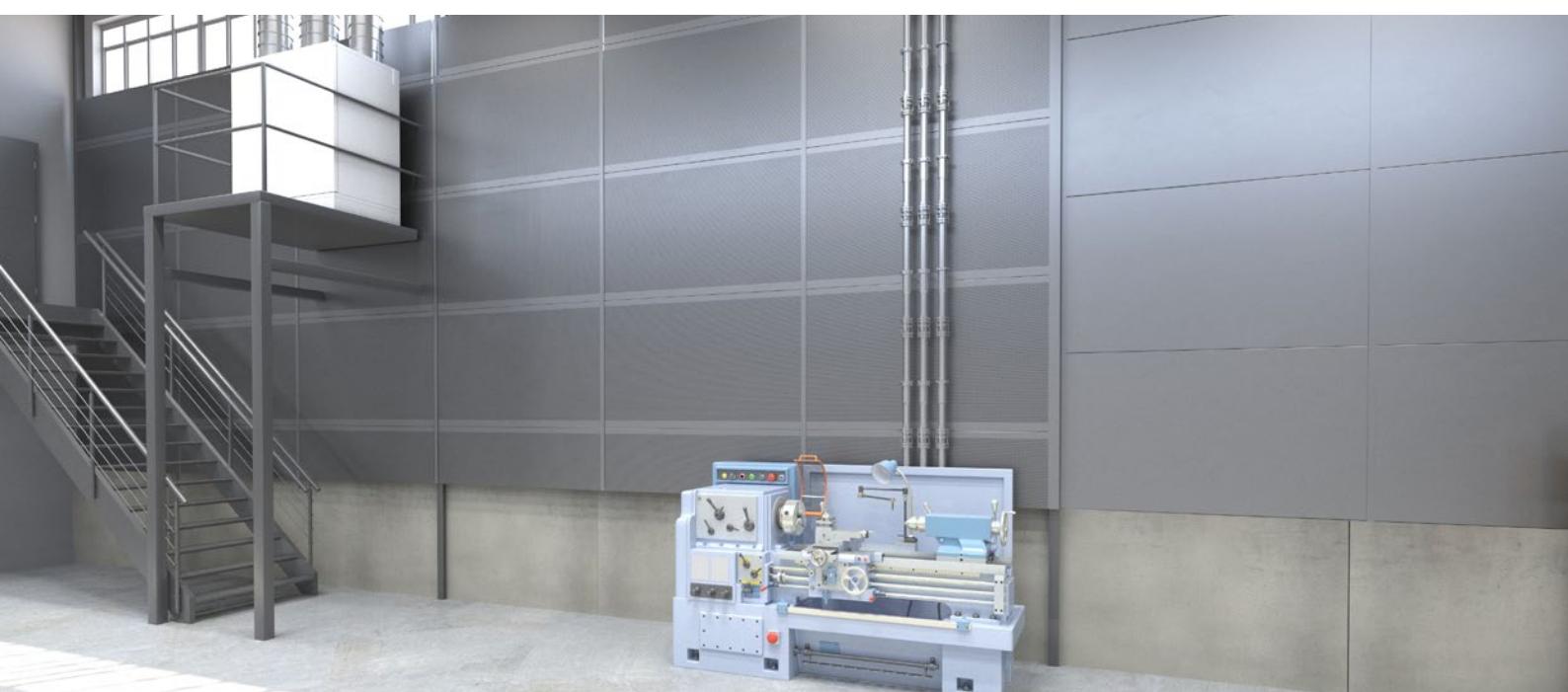
STRUCTURAL PERFORMANCE

SONO 100 & 150

Maximum characteristic variable load in relation to span length according to the attached figure. The curves include the partial factor ($\gamma_F = 1,5$) for load and partial factor (γ_M) for material. Two element screws are applied at each element end.



ELEMENT AS AN ADDITIONAL LAYER



CONTACT INFORMATION:

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