ALADIN STRIPE

RESILIENT SOUNDPROOFING PROFILE

CERTIFIED
Tested by the Industrial Research Centre of the University of Bologna in accordance with EN ISO 10848.

PERFORMANCE
Soundproofing up to 4 dB in accordance with EN ISO 140-7, thanks to the innovative composition of the mixture; reduced application thickness (between 3 and 5 mm).

TESTED
Footstep noise reduction verified and approved experimentally by Holzforschung Austria.

SOFT

EXTRA SOFT

CODES AND DIMENSIONS

code	Version	B [mm]	L [m]	s [mm]	pcs.
ALADIN95	SOFT	95	50	5,0	1
ALADIN115	EXTRA SOFT	115	50	7,0	1

PRACTICAL
Precut to obtain 4 different widths from only two versions. Dry installation with mechanical fastening.

EPDM
Extruded EPDM foam mix to optimise soundproofing based on typical wood structure loads.

MY PROJECT SOFTWARE

MATERIAL AND DURABILITY

ALADIN STRIPE SOFT: compact extruded EPDM

ALADIN STRIPE EXTRA SOFT: expanded EPDM.

High chemical stability, VOC-free.

ELASTIC

Thanks to the EPDM mix, the product can compensate for the expansion of wood or of materials in general.

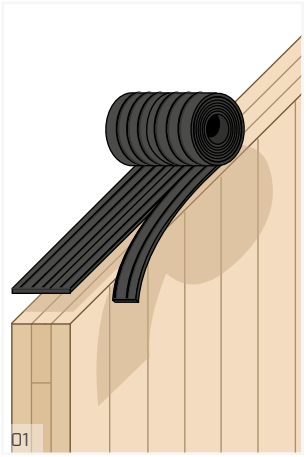
TECHNICAL SPECIFICATIONS

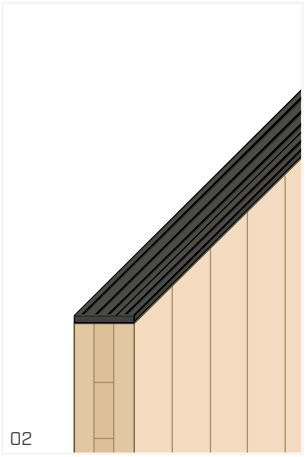
Property	Standard	ALADIN95 [SOFT]	ALADIN115 [EXTRA SOFT]
Composition	-	Extruded EPDM	expanded EPDM
Density	ASTM D 297	1,1 ± 0,02 g/cm^3	0,50 ± 0,06 g/cm^3
Hardness	EN ISO 868	50 ± 5 shore	-
Dynamic stiffness s' (airtight condition) (1)	UNI 29052	221 MN/m^3	76 MN/m^3
Dynamic stiffness s' (non-airtight condition) (1)	UNI 29052	115 MN/m^3	23 MN/m^3
Tear strength	EN ISO 37	≥ 9 Mpa	-
Elongation at break point	EN ISO 37	≥ 500 %	-
Compression deformation 22h:			
+23 °C	EN ISO 815	-	≤ 25 %
+40 °C	EN ISO 815	-	≤ 35 %
+70 °C	EN ISO 815	-	-
+100 °C	EN ISO 815	≥ 50 %	-
Max processing temperature	-	> 100 °C	> 100 °C
Reaction to fire	EN 13501-1	class E	class E

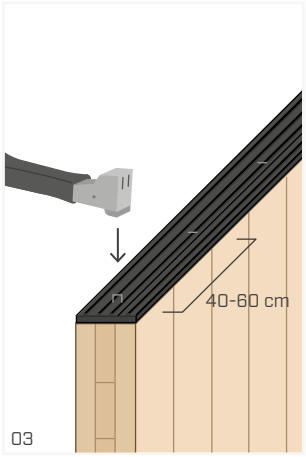
TABLE OF USE

Code	L [mm]	TYPE	APPLICABLE COMPRESSION [N/mm^2]		LOWERING [mm]		APPLICABLE LINEAR LOAD [kN/m]		ACOUSTIC LOWERING $L'_{nt,w}$ [dB] (2)
			from	to	min	max	from	to	
ALADIN95	47,5	soft - divided	0,189	0,316	0,5	1,5	9	15	≤ 3
ALADIN95	95,0	soft	0,189	0,316	0,5	1,5	18	30	≤ 3
ALADIN115	57,5	extra soft - divided	0,035	0,157	0,7	2,0	2	9	≤ 4
ALADIN115	115,0	extra soft	0,035	0,157	0,7	2,0	4	18	≤ 4

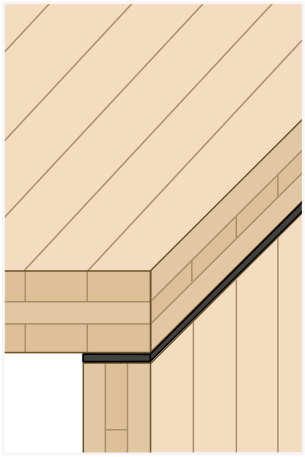
APPLICATION INSTRUCTIONS


01


02



03



NOTES:

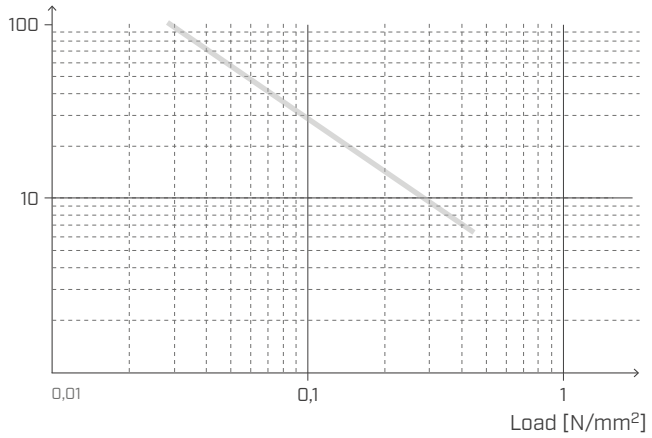
(1) s' = s' (t) the air contribution is not calculated, because the product is infinitely airtight (extremely high flow resistance values).

(2) Results guaranteed without the use of brackets and/or fastening systems between floor and wall.
Valid for design and package corresponding to the test set-up described on page 18.
Complete reports on mechanical-acoustic characterisation of the material are available from the Rothoblaas technical department.
For further information on use and calculation, please see page 86.

ALADIN STRIPE EXTRA SOFT

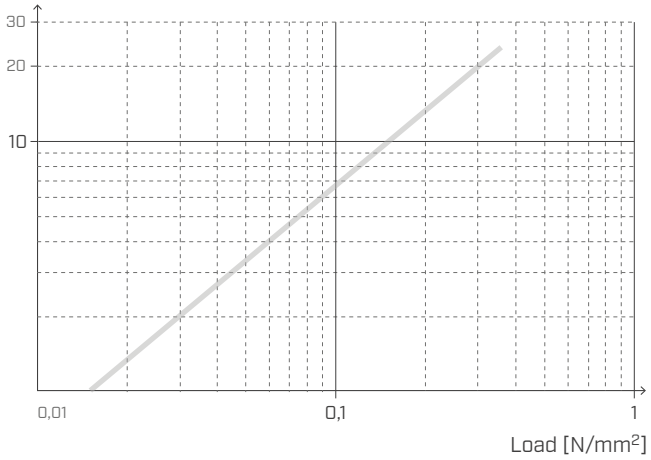
NATURAL FREQUENCY AND LOAD

Natural frequency [Hz]



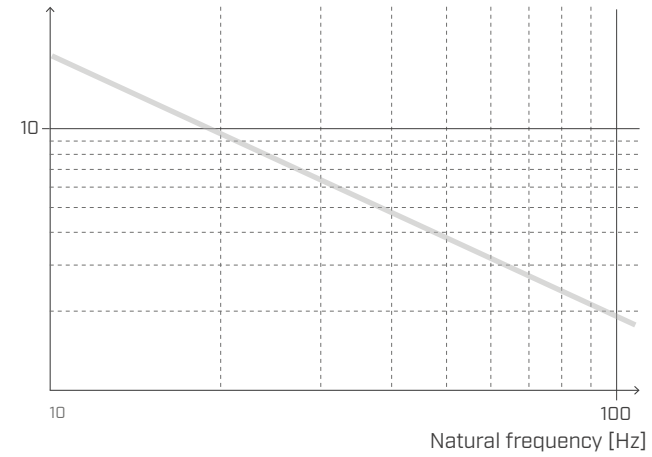
DEFORMATION AND LOAD

Deformation [%]



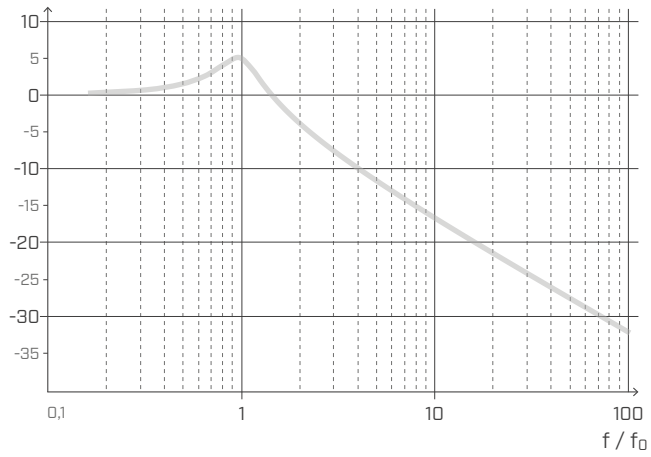
DEFORMATION AND NATURAL FREQUENCY

Deformation [%]



TRANSMISSIBILITY

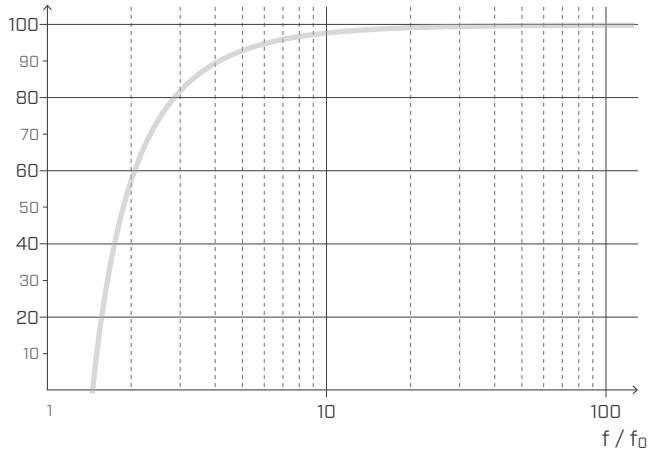
Transmission [dB]



Normalised with respect to the resonance frequency.
Elastic module measured from compression and real deformation tests

ATTENUATION

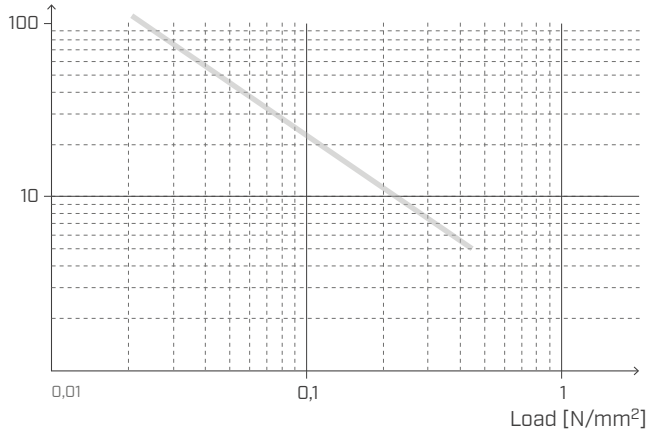
Attenuation [%]



ALADIN STRIPE SOFT

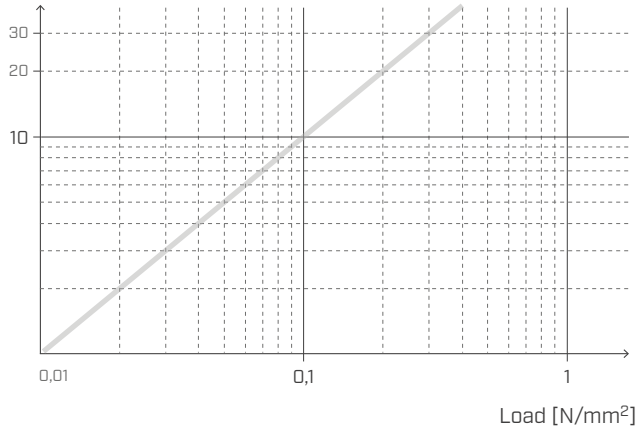
NATURAL FREQUENCY AND LOAD

Natural frequency [Hz]



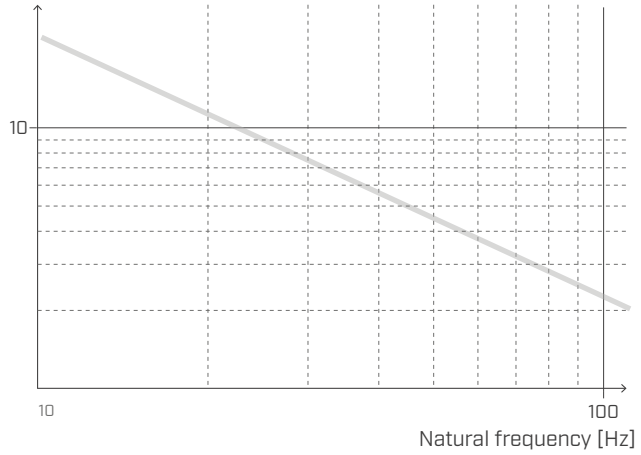
DEFORMATION AND LOAD

Deformation [%]



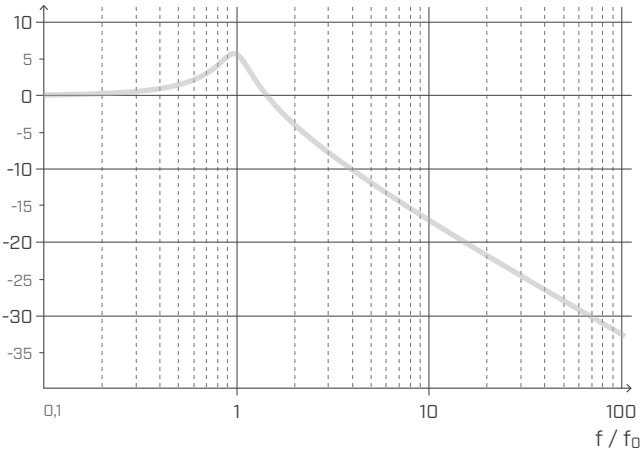
DEFORMATION AND NATURAL FREQUENCY

Deformation [%]



TRANSMISSIBILITY

Transmission [dB]



Normalised with respect to the resonance frequency.
Elastic module measured from compression and real deformation tests

ATTENUATION

Attenuation [%]