

# CONSTRUCTION SEALING

## COMPRESSIBLE SEALING GASKET FOR REGULAR JOINTS

### NOISE REDUCTION

The acoustic performance has been tested in the Flanksound Project by Rothoblaas: using it as a wall isolation gasket provides up to 3 dB of noise reduction.

### PRACTICAL

Sealing of timber to timber joints can be carried out on site or during prefabrication.



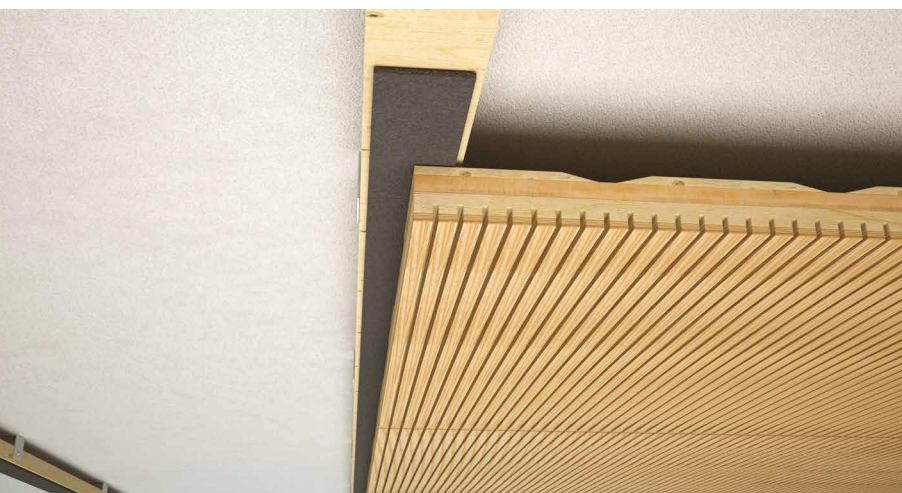
### CODES AND DIMENSIONS

CODE	B	s	L	B	s	L	
	[mm]	[mm]	[m]	[in]	[in]	[ft]	
CONSTRU4625	46	3	25	1 3/4"	0.12	82' 1/4	3

### TECHNICAL DATA

Properties	standard	value	USC conversion
Thickness	-	3 mm	0.12 in
Density $\rho$	-	approx. 0,48 g/cm <sup>3</sup>	29.97 lb/ft <sup>3</sup>
Compression deformation 22h +23 °C (73°F)	EN ISO 815	< 25%	-
Compression deformation 22h +40 °C (104°F)	EN ISO 815	< 35%	-
Correction of $K_{ij}$ in the presence of elastic profile in the joint $\Delta_{l,ij}$ <sup>(1)</sup>	ISO 10848-1	4 dB	-
Solvents	-	no	-
Storage temperature	-	+5 / +25 °C	+41 / +77 °F
Resistance to temperature	-	-35 / +100 °C	-31 / +212 °F

<sup>(1)</sup>Measurement performed during the Flanksound Project. See the manual for more information on configuration.



### PERFORMANCE

Increase of sound insulation

$$\Delta_{l,ij} = 4 \text{ dB}$$

$$\Delta_{l,ij} = K_{ij,\text{with}} - K_{ij,\text{without}}$$

See the manual for more information on configuration.



# SOUND ABSORPTION



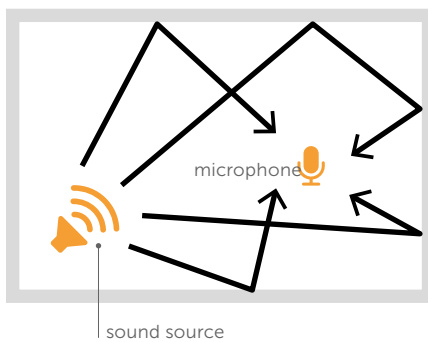
## WHAT IS REVERBERATION?

Reverberation is a phenomenon that occurs inside a closed room when sound waves, generated by a source, are reflected in a disordered manner and for a long period by the walls, even when the sound source has stopped producing them.

## HOW DO I SOLVE IT

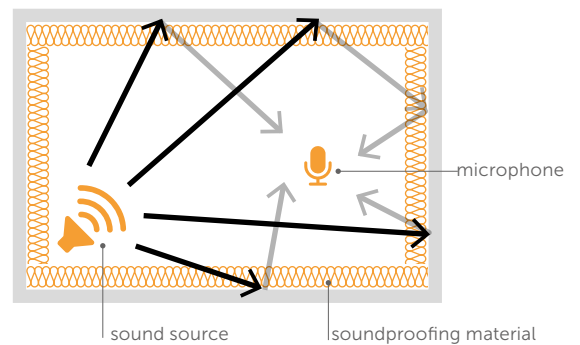
Designing spaces correctly by means of sound absorption means being able to minimise sound wave reflections within rooms, using specific solutions or products capable of absorbing a large amount of them.

### very reverberant environment



In this image, we note that sound bounces off surfaces and therefore reverberation will be easily perceived.

### acoustically corrected environment



In this image, however, we see that, thanks to a sound-absorbing intervention, the sound impacting the wall decreases drastically.

## SOUND ABSORPTION

Sound-absorbing materials are those that can dissipate the energy of incident sound waves on the surface, due to their porous nature. Sound-absorbing materials of a fibrous nature, such as SILENT WALL SURFACE, are able to prevent the reflection of sound waves in favour of an effective absorption of the waves, thanks to the convective motions generated in the cavities between the fibres.

