

FLOATING FLOOR

Ceramic tiles,
Wooden or Stone

Separating strips

Floating screed

K-FLEX® ST

Concrete

K-FLEX® ▶ ST		
Material	Flexible elastomeric foam	EN 14304
Fire classification	B-s3,d0	EN 13501
Dimensions	h 1000 mm - Rolls 30 m	
Thickness	6 mm	
Dynamic stiffness	54 MN/m³	UNI EN 29052
Surface	Smooth	
Weight	0,3 kg/m² (±10%)	
Base colour	Black	
Density	50 kg/m³ (±10%)	
Compressibility	0,3±0,05 mm	UNI EN 12431

FLOATING FLOOR

Attenuation of the pressure level: $\Delta L_w = 25$ dB
Correction terms: $C_{v,\Delta} = -14$ dB

Description of components	Thickness (mm)
1 Ceramic Tiles	10
2 Floating Screed	50
3 K-FLEX® ST	6
4 Concrete	140

FLOATING FLOOR ▶

The floating floor is the most common technical solution for sound insulation in the building industry. To insulate a floor against the sound made by footsteps, a resilient material must be placed between the source of the noise and the building structure.

The use of an elastic material installed under the floating screed, with certified performance of low dynamic stiffness value and capable of supporting the load of the screed, can reduce the transmission of vibration, increasing the value of ΔL_w .

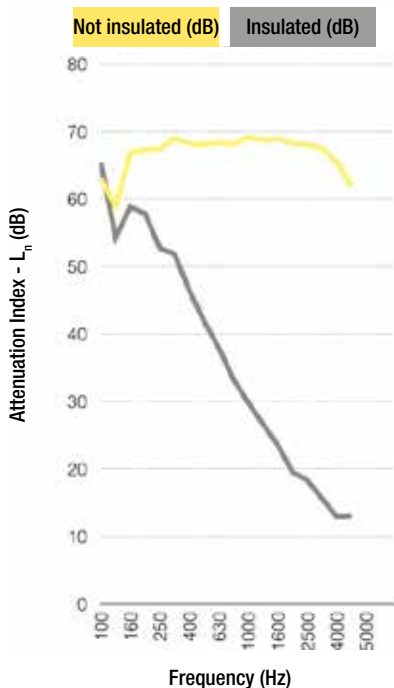
When laying down a floating screed it is important to avoid contact between the screed and the perimetral structure. For this reason the resilient material installed on the floor should also be turned up against the walls to 5cm more than the final level of the floor.



Detail of K-FLEX® ST turned up against walls



PERFORMANCE ▶



Freq. (Hz)	Not insulated (dB)	Insulated (dB)	ΔL (dB)
100	63,0	65,4	-2,3
125	58,8	54,3	4,4
160	66,8	58,8	8,0
200	67,3	57,8	9,4
250	67,4	52,7	14,7
315	69,0	51,8	17,2
400	68,2	46,4	21,8
500	68,0	41,9	26,2
630	68,4	37,9	30,5
800	68,1	33,2	34,9
1000	69,1	29,8	39,3
1250	68,7	26,6	42,1
1600	68,9	23,5	45,5
2000	68,2	19,5	48,7
2500	68,0	18,3	49,7
3150	67,5	15,6	51,9
4000	65,4	12,9	52,6
5000	61,9	13,0	48,9

ACOUSTIC PERFORMANCE ▶

$L_{Tr0,w}$ = 78 dB

$L_{Tr,w}$ = 53 dB

ΔL_w = 25 dB

$C_{l,\Delta}$ = -14 dB

DOWNLOAD CERTIFICATE ▶

