



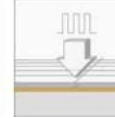
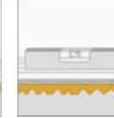
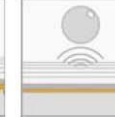
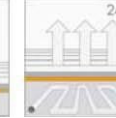




# Technical data sheet Fixophon

**Material:** Fixophon is an extruded closed cell polyolefin foam laminated with a high efficient metalized polyolefin-foil as water vapour control layer. Fixophon is manufactured without CFCs and HCFCs and contains neither plasticizers nor heavy metals or other hazardous substances.

**Application:** Fixophon underlay is applicable for floating installation under laminate and parquet floorings for impact sound insulation and for compensation of unevenness of the subfloor as well as protection against moisture migration coming from the subfloor. Application in rooms with low frequentation, standard requirements on impact sound insulation and long-term load bearing capacity.

## Technical data:

RWS	IS	CS	CC	DL	PCv	RLB	TR	SD	RTF
									
[ % ]	[ dB ]	[ kPa ]	[ kPa ]	25 kPa	[ mm ]	[ m ]	[ m <sup>2</sup> K/W ]	[ m ]	[ class ]
0	16	< 5	< 1	≤ 1cycl.	1.4	N.P.D	0.045	200	F <sub>fl</sub>

	Property	Unit	Value	Norm
<b>d:</b>	<b>Thickness</b> of the underlay measured at 100 Pa pre-load	mm	2 (±10%)	EN 823 <sup>1)</sup>
	<b>Foam colour</b>	natural (050)		
<b>RWS:</b>	<b>Reflected walking sound</b> • sound reduction compared to reference underlay	%	0	EPLF working draft 021029-5 F1
<b>IS:</b>	<b>Impact sound improvement</b> • measured under 7 mm laminate flooring	dB	16	ISO 140 / 717
<b>CS:</b>	<b>Compressive strength</b> • tested at 0.5 mm compression under 100 Pa pre-load	kPa	< 5	EN 826 <sup>1)</sup>
<b>CC:</b>	<b>Compressive creep under long term static load</b> • max. thickness loss of 0.5 mm extrapolated to 10 years	kPa	< 1	EN 1606 <sup>1)</sup>
<b>DL:</b>	<b>Dynamic load</b> • number of load cycles at max. deformation ≤ 0.5 mm • alternating cycles from $\sigma_{min} = 100$ Pa to $\sigma_{max} = 25$ kPa	no. of cycles	≤ 1	EN 13793 <sup>1)</sup>
<b>PCv:</b>	<b>Punctual conformability</b> • to even out punctual unevenness of subfloors	mm	1.4	CEN TS 16354 - 12:2013
<b>RLB:</b>	<b>Resistance to impact by large diameter ball</b> • to be tested on flooring system (underlay+laminat flooring)	m	N.P.D.	EN 13329 Annex F and EN 438 Chapter 21
<b>TR:</b>	<b>Thermal resistance</b> <sup>2)</sup> at 24°C mean temperature	m <sup>2</sup> K/W	0.045	EN 12667 / EN 12664
<b>SD:</b>	<b>Water vapour diffusion resistance of the underlay</b> <sup>3)</sup> • diffusion-equivalent air layer thickness, SD-value	m	200	EN 12086
	• acc. EN 12086 method A, measured at 23°C, 0-50% rel. humidity	foil-type:	-	ALU 200
		foil colour:	-	silver
<b>WA:</b>	<b>Water absorption</b> by foam	Vol%	< 1	EN 12087
<b>RTF:</b>	<b>Reaction to fire</b>	class	F <sub>fl</sub>	Test acc. EN ISO 11925-2 classification acc. EN 13501-1, Table 2

N.P.D. = no performance determined

- All tests are done according to the mentioned standards and the modifications given in document CEN/TS 16354 - 12:2013.
- According to the recommendations of "Bundesverband Flächenheizungen und Flächenkühlungen e.V. (BVF)" and EN 1264-3 is this underlay applicable for underfloor heating systems. The total R-value of the complete floor construction of max. 0,15 m<sup>2</sup> K/W has to be considered.
- The given value for water vapour diffusion (SD-value) is valid for the underlay only, when the butted click connections are carefully sealed with tape.

**Chemical resistance:**

- against water, most domestic cleaners, solutions of salt, acids, bases
- partly durable against organic solvents and hydrocarbons

**Storage conditions:**

- Do not store the underlay outdoors, protect it from exposure of sunlight. Despite degassing during storage in our warehouse the foam can still contain a certain amount of the foaming agent Isobutane, which can build together with atmospheric oxygen a highly inflammable mixture of gas. During storage ensure good ventilation, especially at ground level. Avoid electrostatic discharge. Keep away from ignition source. No open flames, no smoking!