

# TECHNICAL DATA SHEET

## DESCRIPTION

SOFIX is an acoustic solution that offers superior performances. This product has been developed to surpass the acoustic requirements in challenging structures such as Mass Timber or dynamic environments prone to noise transmission like gyms. It is an innovative decoupling system made from non-woven synthetic fibers and introduces hemispherical cups to reduce points of contact to a minimum. This composition provides superior acoustic comfort in the most challenging environments.

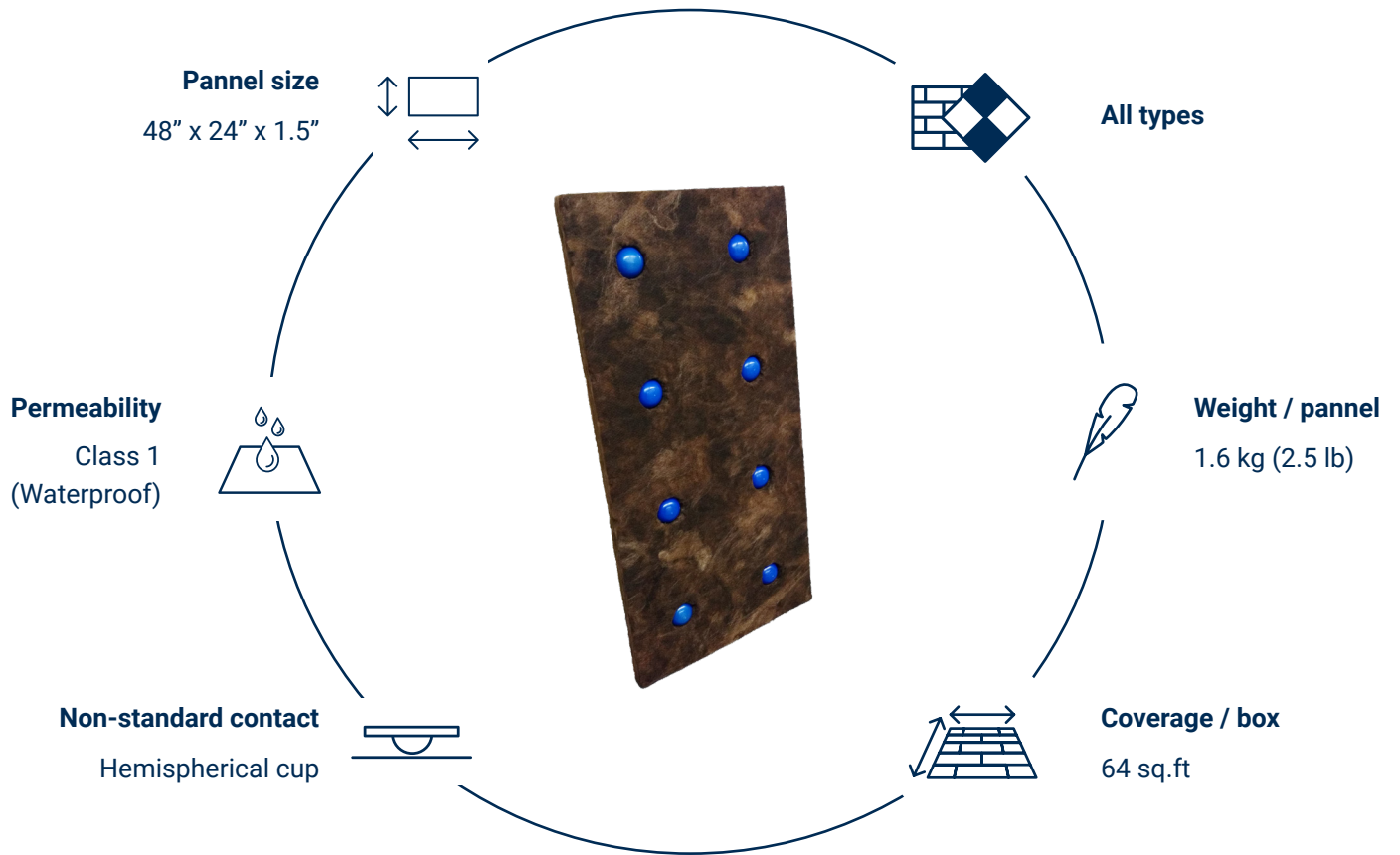
## COMPATIBILITY

### ADHESIVE

N/A

### FLOORING

Engineered wood floor



THERMAL COMFORT



ACOUSTIC COMFORT



MECHANICAL STRENGTH

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## PERFORMANCE TABLE

Test	Suspended ceiling	Assemblage	Membrane	Flooring type	Installation	Acoustic performance	Acoustic comfort
T.135.9	N/A	SOFIX* + insulation+ Acoustivibe + 2 gyphs	Ceramic	Ceramic	Mortar	AiIC: 70	A-HiIC: 74
T.160.27	N/A	SOFIX* + 1.5 concrete» + CLT 131mm	Ceramic	Ceramic	Mortar	AiIC: 60	A-HiIC: 63
T.146.1	No	SOFIX* + 9.5 concrete»	Ceramic	Ceramic	Mortar	AiIC: 77	A-HiIC: 78
T.220224.1	N/A	SOFIX* + CLT 152mm	No	Hardwood	Nailed	IIC: 58 STC: 61	A-HiIC: 74

## PHYSICAL PROPERTIES

<b>Vertical deflexion (Glass mineral wool)</b>	4 mm @ 16 Kpa
<b>Type of fiber</b>	Recycled inorganic glass
<b>VOC</b>	0 g/L
<b>Moisture</b>	Rot-resitant
<b>Type of plastique</b>	High-density polyethylene
<b>Length (1 pannel)</b>	122 cm (48 in)
<b>Width (1 pannel)</b>	61 cm (24 in)
<b>Thickness</b>	3.8 cm (1.5 in)
<b>Weight (1 pannel)</b>	±1.6 kg (±3.5 lb)
<b>Coverage</b>	0.7 m <sup>2</sup> (8 sq.ft)

## TECHNICAL DATA

<b>PERM (vapor barrier)</b> ASTM E96. procedure A	0.02
<b>R factor</b> ASTM C518	6.5
<b>Puncture resistance</b> TAPPI. test T803	25 Beach units
<b>Flame spread</b> ASTM E84. CAN/ULC S102	<25
<b>Smoke developed</b> ASTM E84. CAN/ULC S102 (Coupelle)	<50
<b>Elongation Yield</b> ASTM D638	18 %
<b>Yield tensile strength</b> ASTM D638	24.1 Mpa (3500 psi)
<b>Flexural modulus</b> ASTM D790	663 Mpa (96 000 psi)
<b>Brittleness temperature</b> ASTM D746	< -70°C
<b>Environmental stress crack</b> ASTM D1693	9 hours

