



## GREY SHEETS

Grey sheets are produced from extruded polystyrene foam. The sheets are 100% CFC-free and have a very closed cell structure, which gives the material excellent physical and mechanical properties, such as:

- High, retained thermal insulation effect (the insulation value of a 6 mm. thick is equal to the insulation value of 360 mm. concrete).
- The sheets possess no capillary properties, so the material will not become damp or wet through.
- The sheets exhibit good compression resistance.

Further advantages of the grey sheets are:

- A barrier effect for water vapour diffusion (moisture protection) that equals 525  $\mu$  for a 6 mm. thick.
- The sheets improve the insulation against contact sound.
- The sheets even out and cover up smaller cracks and irregularities in floors and walls.
- The sheets are easy to handle, cut to shape and processed.
- The sheets will not rot, decay or develop mould.
- Buying this recycling-product means contributing to the environment!

The grey sheets are:

- Resistant to building materials such as cement, limestone, gypsum etc. shows no salt bloom effect.
- Unaffected by nearly all alkaline or aqueous substances.
- Odourless, and will not absorb or allow the permeation of odour.

The grey sheets are not proof against organic solvents. Also direct contact with materials containing organic solvents and/o plastisizers is not permitted.

## APPLICATIONS

Possible areas of applications for this material are in particular where its insulation, protection and partition functions are needed.

For example, when the grey sheets are applied underneath parquet, special attention should be paid to the dry and clean sub floor -consisting of either wood or concrete- not to make contact with organic solvents and/or plastisizers.

Please find below the most important technical data on the sheets.

### TECHNICAL DATA

Material: Extruded Polystyrene Foam sheet colour : grey/black			100%	CFC-free
Physical Properties (average values)	Material		Unit	Test method DIN
Thickness	3	6	mm	
Density	$\rho$ 40	$\rho$ 30	kg/m <sup>3</sup>	53420
Thermal conductivity	0,026	0,028	W/mk	52612
Value used in calculations	0,035	0,035	W/mk	4108
Thermal resistance value	0,086	0,17	m <sup>2</sup> K/W	
Heat penetration value	b 2,7	b 2,4	kJ/m <sup>2</sup> h <sup>1/2</sup> K	
Water vapour resistance factor	$\mu$ 750	$\mu$ 525		52615
Diffusion resistance in terms of "AIR SPACE"	sd 2,3	sd 3,1	m	
Absorption of water	none	none		
Size (L x W)	1250 x 800 mm.			
Improvement contact sound insulation	$\Delta I' w + 16$	$\Delta I' w + 17$	dB	52210
Compression stress at 10% compression	0,1	0,1	N/mm <sup>2</sup>	53421
Tensile stress at break				
length	1,3	0,9	N/mm <sup>2</sup>	53421
transverse	0,7	0,9	N/mm <sup>2</sup>	53455
Elongation at break				
length	9	10	%	53455
transverse	12	12	%	53455
Temperature range in use	-60° to + 70°		°C	

This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be considered as guaranteeing specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed. The quality of our products is guaranteed under the General Conditions of Sale of **Cavinato S.p.A.**

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