

COPERSOUND PE

PROPERTIES

COPERSOUND PE is a rolled multi-layer product for acoustic insulation of partitions walls, composed by a bitumen polymer membrane with green fabric surface finishing coupled on the lower face to a sound resistant expanded/reticulated closed-cell polyethylene layer - density 33 kg/m³.

The sound insulating bituminous membrane ensures watertightness, resistance to water vapor diffusion and, at the same time, improves acoustic insulation performance by acting as a continuous barrier against airborne noise transmissions.

The physical reticulation of the sound resistant PE layer and the water tight closed-cell structure allow the product to have remarkable long lasting sound & heat insulating properties.

COPERSOUND PE shall be applied to the wall by means of neoprene glue, taking care of overlapping the rolls 5 cm approximately. It is recommended to attach the green fabric surface to the wall in order to reach the best adhesion possible.

In case of need, mechanically fix the membrane on the upper edges by means of proper plastic nails.

For correct installation refer to COPERSOUND guideline provided by Copernit Technical Department upon request.

ADVANTAGES

- Excellent acoustic performance;
- Low thickness: the product does not require modifications to the partition wall interspace dimensions;
- Ease of application;
- Watertight and rot proof;
- Particularly suitable for renovation and restructuring work;
- High flexibility, ease of cutting: COPERSOUND PE fits to any kind of surface.

Properties	Test Method	Unit	COPERSOUND PE	Tol.
Unit weight	EN 1849-1	kg/m ²	4,0	±10%
Total thickness (<i>indicative value</i>)	EN 1849-1	mm	5,0	±10%
Reticulated PE mat thickness (<i>indicative value</i>)	EN 1849-1	mm	3,0	±10%
Bitumen-polymer layer thickness	EN 1848-1	mm	2,0	±10%
Length	EN 1848-1	m	7,5 (-1%)	≥
Reticulated PE mat width	EN 1848-1	m	1,0 (-1%)	≥
Bitumen-polymer layer width	EN 1848-1	m	1,0 (-1%)	≥
Heat conductivity - Reticulated PE mat (λ) - Bitumen-polymer layer (λ)	ISO 8302	W/mk	0,039 0,17	--
Watertightness	EN 1928	kPa	60	≥
Resistance to water vapor diffusion	EN 1931	μ	100.000	--
AIRBORNE NOISE INSULATION VALUES				
Evaluation index of sound insulating power R_w (REPORT ISTITUTO GIORDANO n° 272593)	UNI EN ISO 140-3 UNI EN ISO 717-1	dB	52	--
Apparent average dynamic stiffness, s'_t (REPORT ISTITUTO GIORDANO n° 268324)	UNI EN 29052-1	MN/m ³	11	--