

PRODUCT DESCRIPTION AND APPLICATION

ARCO GIPS is an eco-friendly soundproofing obtained by coupling recycled latex/foam and gypsum plasterboard. Panel thicknesses available are 20.0 and 30.0 mm. The product is rot-resistant, it's not irritating to skin contact, eyes and the respiratory system. ARCO GIPS keeps its technical performance over time and it is used to existing walls between different housing units during the building renovation.

GENERAL INFORMATION AND ADVICE

The wall airborne noise insulation between different housing units [R'_w] will be obtained using ARCO GIPS, a product by ARCOACUSTICA Company. The product will be applied to a plaster slab coated, it is laid as padding onto the existing structure and it fixed with polypropylene dowels. Wall airborne insulation (R_w) 55.0 and 57.0 dB, thermal resistance (R) 0.44 and 0.71 m^2K/W , dynamic stiffness (s') 8.5 and 6.0 MN/m^3 . The system implementation will have to be carried out in compliance with the instructions specified in installation procedure by the manufacturer.



Picture of the product

SUMMARY OF MAIN FEATURES

Evaluation criterion	Procedure	Symbol	Gips ²⁰	Gips ³⁰	U.M.
Nominal thickness	IM/AL 2014	s	20.0	30.0	mm
Roll length	IM/AL 2014	L	200.0	200.0	cm
Roll height	IM/AL 2014	W	120.0	120.0	cm
Surface mass	IM/AL 2014	Ms	~15.0	~17.0	Kg/m ²
Density	IM/AL 2014	Mv	/	/	Kg/m ³
Thermal conductivity	EN 12667 ISO 8302	λ_D	0.038	0.038	W/mK
Elastomer D.S.C.	ISO 11357/1 ISO 357/2	C	1800.0	1800.0	J/kgK
Water vapour transmission resistance	EN 12086	μ	5.2	5.2	/
Product thermal resistance	ISO 13786 ISO 6946	R	0.44	0.71	m^2K/W
Fire reaction class	EN 13501/1	Classe	F	F	/
Elastomer lower heating value	/	LHV	38000	38000	kJ/kg
Application product	/	/	ad. foam	ad. foam	s

Warning: Other sizes are available upon request

ACOUSTIC PROPERTY

Evaluation criterion	Procedure	Symbol	Gips ²⁰	Gips ³⁰	U.M.
Wall airborne insulation	ISO 12354/1	R_w	55.0	57.0	dB
Wall airborne noise insulation	ISO 140/4 ISO 717/1	R'_w	50.0	52.0	dB
Panel's airborne noise insulation	ISO 140/4 ISO 717/1	R'_w	33.5	35.0	dB
Increased airborne noise insulation	ISO 12354/1	ΔR_w	15.5	17.5	dB
Dynamic stiffness	ISO 29052/1	s'	8.5	6.0	MN/m^3
Apparent dynamic stiffness	ISO 29052/1	s'	8.5	6.0	MN/m^3

Warning: ArcoAcustica disclaims any civil or criminal liability arising from not compliant products using

PACKING

Evaluation criterion	Gips ²⁰	Gips ³⁰	U.M.
Pallet size	120x200	120x200	cm
Product weight on pallet	1152.0	1123.2	kg
Number of meters per pallet	72.0	62.4	m ²
Number of panel per pallet	30	26	Panel

Warning: ArcoAcustica reserves to change the technical specifications of all products without prior notice.