## 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. The article is used to increase the facade acoustic insulation in buildings renovation and its application is in contact with the existing walls.

## **GENERAL INFORMATION AND ADVICE**

The facade sound insulation for existing walls  $[D_{2m,nTW}]$ , will be obtained using ARCO GIPS, a product by ARCOACUSTICA Company. The product will placed in contact with the plaster layer of the existing wall and fixed with polypropylene dowels. Airborne wall insulation (Rw) 58.0 and 60.0 dB, thermal resistance (R) 0.44 and 0.71 m<sup>2</sup>K/W, dynamic stiffness 8.5 and 6.0 MN/m<sup>3</sup>. 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 <sup>20</sup>	Gips <sup>30</sup>	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/m²
Density	IM/AL 2014	Mv	/	/	Kg/m³
Thermal conductivity	EN 12667 ISO 8302	$\lambda_{D}$	0.038	0.038	W/mK
Elastomer D.S.C.	ISO 11357/1 ISO 357/2	С	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	m²K/W
Fire reaction class	EN 13501/1	Classe	F	F	/
Elastomer lower heating value	/	LHV	38000	38000	kJ/kg

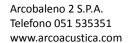
Warning: Other sizes are available upon request

ACOUSTIC PROPERTY					
Evaluation criterion	Procedure	Symbol	Gips <sup>20</sup>	Gips <sup>30</sup>	U.M.
Airborne wall insulation	ISO 12354/3	Rw	58.0	60.0	dB
Airborne facade insulation	ISO 140/5 ISO 717/1	D <sub>2m,nTW</sub>	/	/	dB
Panel's airborne noise insulation	ISO 140/4 ISO 717/1	R' <sub>W</sub>	33.5	35.0	dB
Elastomer airflow resistance	ISO 29053	r	>100.0	>100.0	kPa*s/m²
Dynamic stiffness	ISO 29052/1	s'	8.5	6.0	MN/m³

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

PACKING			
Evaluation criterion	Gips <sup>20</sup>	Gips <sup>30</sup>	U.M.
Pallet size	120x200	120x200	cm
Product weight on pallet	864.0	811.2	kg
Number of meters per pallet	72.0	62.4	m²
Number of sheet per pallet	30	26	Panel

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



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