

#### 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 ( $R_w$ ) 58.0 and 60.0 dB, thermal resistance ( $R$ ) 0.44 and 0.71  $m^2K/W$ , dynamic stiffness 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 <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/m <sup>2</sup>
Density	IM/AL 2014	Mv	/	/	Kg/m <sup>3</sup>
Thermal conductivity	EN 12667 ISO 8302	$\lambda_D$	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	$\mu$	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

**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	$R_w$	58.0	60.0	dB
Airborne facade insulation	ISO 140/5 ISO 717/1	$D_{2m,nTW}$	/	/	dB
Panel's airborne noise insulation	ISO 140/4 ISO 717/1	$R'_w$	33.5	35.0	dB
Elastomer airflow resistance	ISO 29053	r	>100.0	>100.0	kPa*s/m <sup>2</sup>
Dynamic stiffness	ISO 29052/1	s'	8.5	6.0	MN/m <sup>3</sup>

**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	m <sup>2</sup>
Number of sheet per pallet	30	26	Panel

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