

LAMIX

Description

LAMIX is a synthetic acoustic barrier, composed by polymers and mineral charges.

Its production process comes from 100% recycled material.

Reduces airborne noise, minimizes vibrations on Surfaces, decouples and control resonance effects on in construction systems like drywall, metal sheets or wood panels.



PRESENTATION

REFERENCE	FORMAT	SIZE	PALLET		
			Pcs. / pallet	m ² / pallet	Weight pallet
LAMIX 3,5 Kgs	Roll	5000 x 1000 mm	70 rolls	350 m ²	1.225 Kgs.
LAMIX 3,5 Kgs Adhesive	Sheet	1000 x 1400 mm	200 sheets	280 m ²	980 Kgs.
LAMIX 5 Kgs.	Roll	5000 x 1000 mm	50 rolls	250 m ²	1.250 Kgs
LAMIX 5 Kgs. Adhesive	Sheet	1000 x 1400 mm	140 sheets	196 m ²	980 Kgs.
LAMIX 10 Kgs.	Sheet	1000 x 1400 mm	70 sheets	98 m ²	980 Kgs.
LAMIX 10 Kgs. Adhesive	Sheet	1000 x 1400 mm	70 sheets	98 m ²	980 Kgs.
LAMIX 3,5 IGN	Sheet	1200 x 1000 mm	200 sheets	240 m ²	900 Kgs
LAMIX 5 IGN	Sheet	1200 x 1000 mm	150 sheets	180 m ²	950 Kgs
LAMIX 10 IGN	Sheet	1200 x 1000 mm	75 sheets	90 m ²	950 Kgs

CHARACTERISTICS / MECHANICAL PROPERTIES

REFERENCE	MASS	THICKNESS	DENSITY	RESISTANCE TO TRACTION	ELONGATION AT BREAK	HARDNESS SHORE A
LAMIX 3,5 Kgs	3,5 kg.	1,90 mm	1,83 g/cm ³	>1 N/mm ²	>100 %	85 °Shore A
Tolerance	+/- 5%	+/- 0,5 mm	+/- 0,3			+/- 10
Standard			ISO 2781		ISO 37	ISO 868
LAMIX 5 Kgs.	5 Kgs.	2,75 mm	1,83 g/cm ³	>1 N/mm ²	>100 %	85 °Shore A
Tolerance	+/- 5%	+/- 0,5 mm	+/- 0,3			+/- 10
Standard			ISO 2781		ISO 37	ISO 868
LAMIX 10 Kgs.	10 Kgs.	5,5 mm	1,83 g/cm ³	>1 N/mm ²	>100 %	85 °Shore A
Tolerance	+/- 5 %	+/- 0,5 mm	+/- 0,3			+/- 10
Standard			ISO 2781		ISO 37	ISO 868

THERMAL PROPERTIES/FIRE BEHAVIOUR

REFERENCE	SHRINKAGE	BEHAVIOUR AGAINST COLD AT -25°C	FIRE REACTION		RESISTANCE AGAINST CHOCK B2000/50/23°C
			Fire direct to material	Material between 2 plasterboards	
LAMIX	<5 %	No break	Euroclass Ds1d2	Bs1d0	No break
Standard			UNE-EN 13501 1:2007+A1:2010	UNE-EN 13501 1:2007+A1:2010	

THERMAL RESISTANT	LAMIX 3,5 Kgs	LAMIX 5 Kgs.	LAMIX 10 Kgs.
Conductivity	0,004	0,006	0,013
UNE-EN 12667:2002	Rt (m ² ·K/W)	Rt (m ² ·K/W)	Rt (m ² ·K/W)

ACOUSTIC PROPERTIES

REFERENCE	FREQUENCIES (Hz)						GLOBAL REDUCTION INDEX	OFFICIAL LAB	STANDARD	FILE Nº
	125	250	500	1000	2000	4000				
LAMIX 3,5 Kgs	5,2	12,5	19,5	24,2	29,4	35	23 dB	Applus	UNE-EN ISO 140-3	4.011.522
LAMIX 5 Kgs	12,1	15,3	19,7	21,8	22,8	26,2	22 dB	Applus	UNE-EN ISO 140-3	4.011.526
LAMIX 10 Kgs	15,2	22,8	28,6	33,2	37,7	42,3	32 dB	Applus	UNE-EN ISO 140-3	4.011.525

ACOUSTIC PROPERTIES INSIDE CONSTRUCTION SYSTEM

SYSTEM	DETAILS	ACOUSTIC INSULATION RESULT					
Drywall Partition	LAMIX5 between double gypsum boards (15mm) each side and 48mm structure with 20mm textile fiber (55Kgs/m7)	Rw(C:Ctr) = 56 (-4;-12) dB R(A) = 52,9 dBA					
Frequencies	Hz	125Hz	250Hz	500Hz	1K	2K	4K
Attenuation	dB	36,1	46,1	55	64,7	67,4	73,3
Plasterboard after brick wall	PR 3,5 covering 7cms brick wall, 48mm profile with 40mm textile fiber (55 kgs/m7) and then LAMIX5 between double plasterboard (12,5mm),	Rw = 60 dB R(A) = 59,5 dBA					
Frequencies	Hz	125Hz	250Hz	500Hz	1K	2K	4K
Attenuation	dB	45,4	51,7	52	62,7	69,5	66,6

WATER VAPOUR

EQUIVALENT AIR LAYER THICKNESS Sd (m)	WATER VAPOUR DIFFUCION RESISTANCE FACTOR (u)
89	50361

LAMIX comes from 100% recycled production and can be 100% recycled again

