AKUSTIK® - GIPS Art. 3

MATERIAL

Akustik®- Gips Art.3 is the combination of a plasterboard 12.5 mm thick with Ecorubber, a panel made of rubber granules whose density is 780 Kg/m^3.
Such a stratification makes of Akustik®-Gips Art.3, a product with extraordinary sound-insulating properties.

LAYERS COMPOSITION

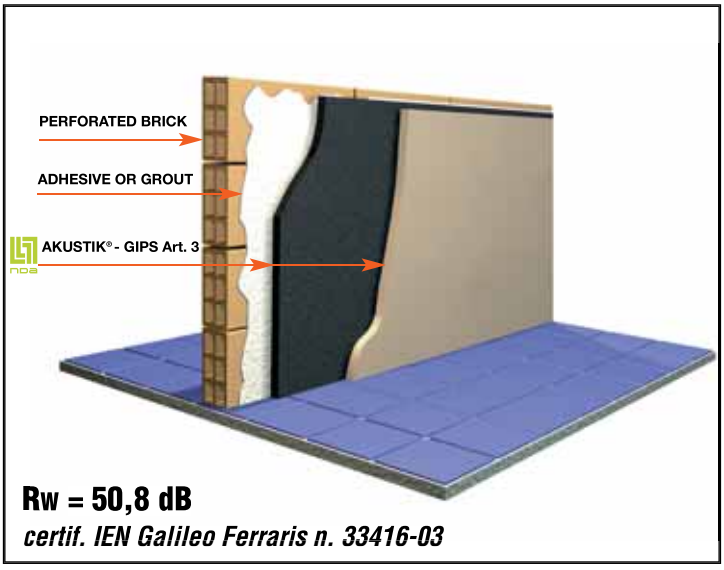
A 20 mm/14 Kg
B 12,5 mm

STANDARD FORMATS

Width: 1200 mm
Length: 2000 mm
Thickness: 33 mm

Any other format can be supplied on request.

PLASTERBOARD WITH AN ECORUBBER (780 KG/M^3) PANEL COATING ON ONE SIDE, FOR SOUND INSULATION AND VIBRATION-DAMPING EFFECT



Rw = 50,8 dB
certif. IEN Galileo Ferraris n. 33416-03

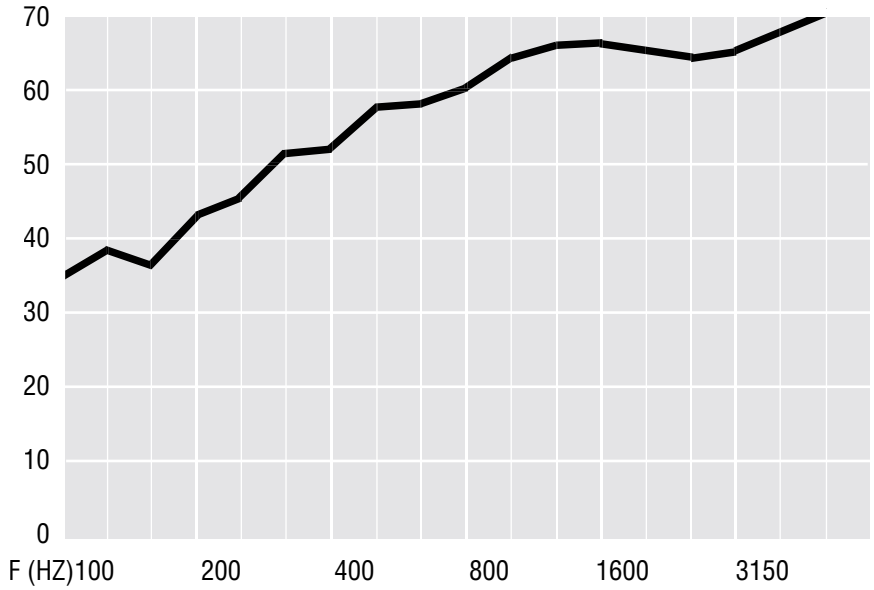
FIELDS OF APPLICATION

Akustik®-Gips Art.3 is widely used for partition walls and plasterboard ceilings where a very high sound insulation is required (cinemas, clubs, pubs, etc.). Furthermore, it is used for masonry walls to increase their sound-insulating power, and as partition panels, in apartments, hotel rooms, offices, in housing and commercial construction.

INSTALLATION

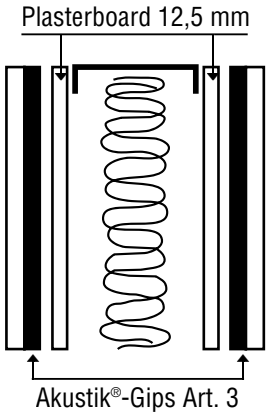
Akustik®-Gips Art.3 must be installed with specific screws or with grout as far as masonry walls are concerned.

Sound insulation power Rw = 57,5 dB



Surface area of test element = 13.40 m²
L1= Mean level of sound pressure in disturbing chamber
L2= Mean level of sound pressure in disturbing chamber
D = L1-L2= acoustic insulation and background noises correction UNI ISO 140/3
T = Mean reverberation time in disturbed
F = 10 log (S x T) / (0.16 x V)
R = D+F = sound insulation power
Volume of disturbed chamber = 87.61 m³

Installation Scheme



Rw = 57,5 dB
total thickness
≃ **16,50 cm**

Frequency Hz	**background** dB	**L1** dB	**L2** dB	**D** dB	**T** sec	**F** dB	**R** dB
100	23,50	76,60	47,90	28,7	5,46	7,2	35,9
125	18,10	79,90	48,90	31,0	4,54	6,4	37,4
160	13,80	74,50	45,20	29,3	5,67	7,3	36,6
200	8,90	81,00	46,20	34,8	6,96	8,2	43,0
250	13,10	81,90	45,10	36,8	6,51	7,9	44,7
315	10,60	82,50	40,10	42,4	7,82	8,7	51,1
400	10,40	81,70	38,50	43,2	7,41	8,5	51,7
500	12,10	85,10	36,80	48,3	6,83	8,1	56,4
630	8,50	84,20	34,60	49,6	6,38	7,9	57,5
800	6,20	85,10	31,80	53,3	5,36	7,1	60,4
1000	3,30	84,60	27,60	57,0	4,76	6,6	63,6
1250	2,70	82,70	23,70	59,0	4,68	6,5	65,5
1600	3,20	81,90	21,90	60,0	4,13	6,0	66,0
2000	3,80	82,60	22,70	59,9	3,84	5,6	65,5
2500	4,50	83,20	23,00	60,2	3,29	5,0	65,2
3150	5,30	82,90	21,30	61,6	2,87	4,4	66,0
4000	6,00	84,40	20,20	64,4	2,46	3,7	68,1
5000	6,70	85,40	18,00	67,7	2,03	2,9	70,6
dB(A)	17,70	94,7	43,8	50,9	5,08	6,9	57,8