

HushTex Acoustic Surfaces

HushWall

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Introduction

HushWall 3 is highly effective rubber backed plasterboard used for sound insulation and to create a vibration damping effect.

How it works

HushWall 3 is a combination of plasterboard (12.5mm) and granulated rubber (20mm) creating a high density panel with a density of 780 m³. This combination of materials and mass makes HushWall 3 an excellent sound insulating product.

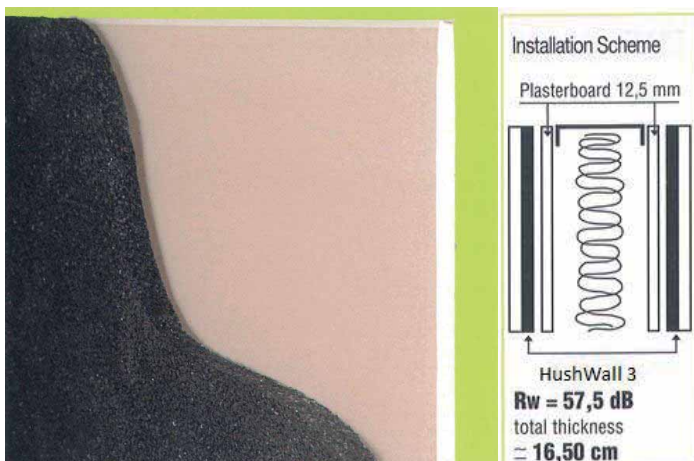
HushWall 3 is widely used for partitions walls and plasterboard ceilings where high levels of sound insulation are require. HushWall 3 can also be used to overlay existing masonry walls to dramatically increase existing sound insulations properties.

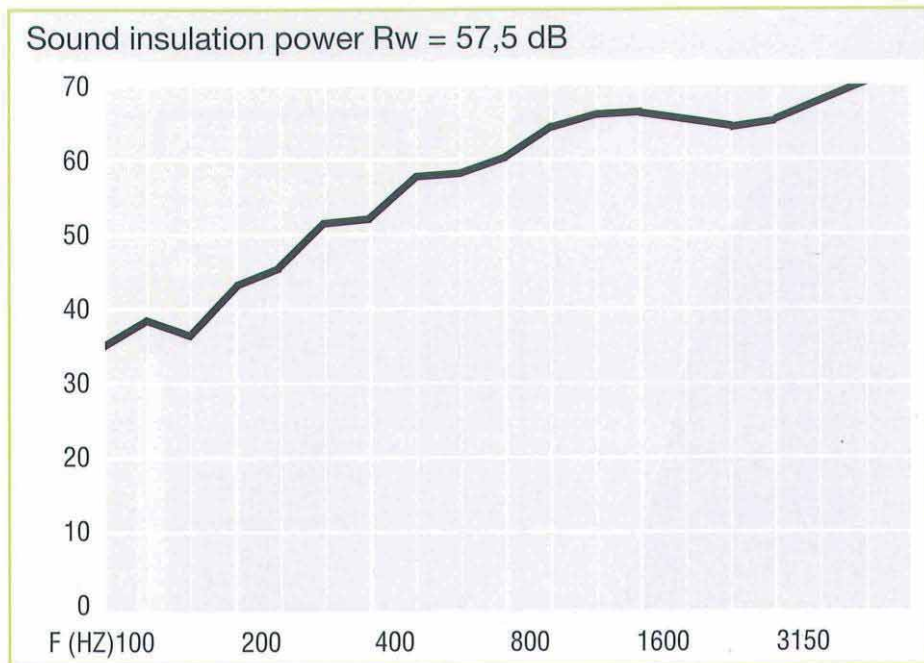
Key Benefits

- Sound insulation power RW = 57.5dB
- Can be used as for partition walls and plasterboard ceilings.
- Can be fixed directly over existing wall/ceiling finishes.
- Standard board size of 1.2m x 1.0m

Typical Applications

- Cinemas
- Clubs
- Apartments
- Hotel Rooms
- Offices
- Commercial Construction





Surface area of test element = 13.40 m^2
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 = $10 \log (S \times T) / (0.16 \times V)$
R = $D+F$ = sound insulation power
 Volume of disturbed chamber = 87.61 m^3

Frequency	background	L1	L2	D	T	F	R
Hz	dB	dB	dB	dB	sec	dB	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

