

Movable Acoustic Walls / Sliding Folding Partitions

Series 500/600 - Acoustic Movable Walls



Applications include - hotels, offices, conference centres, churches, colleges...

- High acoustic performance up to 58db
- Vast selection of finishes (inc veneer, laminate etc)
- Flexible division with various stacking options
- Top hung with no floor tracks
- Fire rated systems available (up to 1 hour certificated)
- Panels can be manufactured up to 10,000mm high

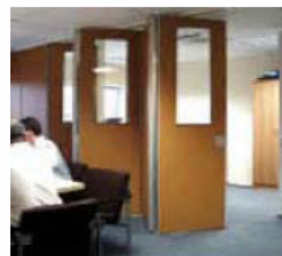


Series 200 - Folding Acoustic Partition



Applications include - offices, schools, universities, leisure, sport, community centres...

- Acoustically rated 25db-46db
- Vast selection of finishes (inc veneer, paint, melamine etc)
- Single wing or Bi parting stacking
- Can be top hung or floor supported
- Fire rated systems available (up to 1 hour certificated)
- Can be supplied with full height pass door



Series 220 - Straight Sliding Partition System



Applications include - flats, apartment blocks, houses, offices, schools and universities, hotels, leisure facilities, churches & community centres.

- A new system for use in confined spaces
- Acoustically rated 25db-46db
- Vast selection of finishes (inc veneer, paint, melamine etc)
- Four stacking options
- Can be top hung or floor supported



Series 800 - Vinyl Concertina Partition



Applications include - schools, colleges, hospitals, churches, sports halls...

- Acoustically tested from 15db-32db
- Plain coloured textured fabric finish
- Single wing, Bi parting or floating wing stacking
- Class 'D' and class '1' to BS:476 as standard
- System supplied up to 6000mm high



Series 500/600 Technical Specifications

Series 500 & 600

Nominal thickness	100mm
Min. panel width	650mm
Max. panel width	1250mm
Max. clear opening height	
Series 500	4000mm
Series 600	10000mm
Sound insulation range	
Series 500	38 - 48dB
Series 600	41-59dB
Tested to: ISO 140/3 & EN 20140/3 Standard.	

500 & 600 Additional Features

- ▶ Isolated steel frame construction 41-59dB range
- ▶ Option for concealed profiles
- ▶ Magnetic edge profiles
- ▶ Aluminium or steel head track

Series 615F (Fire rated)

Nominal thickness	115mm
Fire ratings	30mins/60mins
Sound insulation range	49 - 54dB

615F Additional Features

- ▶ Concealed profiles
- ▶ Timber seals
- ▶ Steel internal frame

General Composition

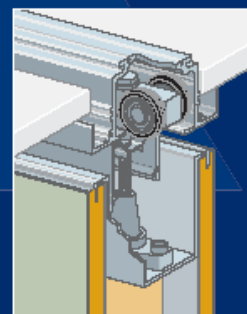
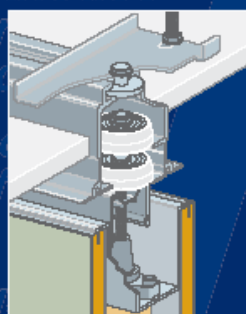
Facings of 16mm particle board with the option of high density acoustic infill (depending on sound rating).

Installation

The majority of installations are carried out in two separate visits, first fix to install track and support

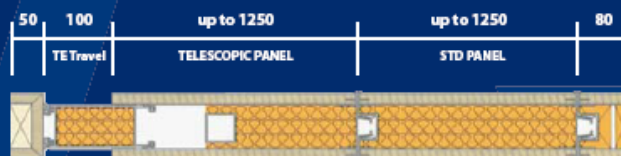
(acoustic baffles where necessary), second visit to install panels, wall posts commission and demonstrate.

Ceiling Track



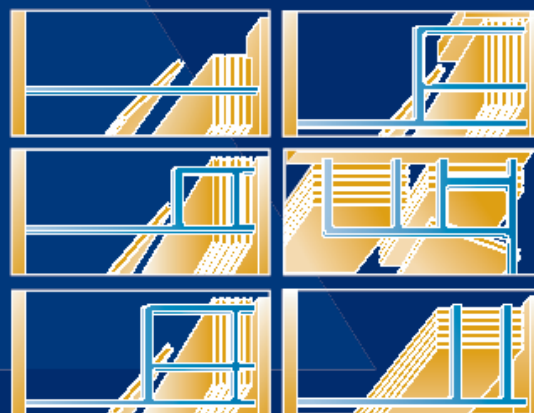
Designed to accommodate suspended ceilings. Installation can include track support and sound baffles within ceiling voids according to specification.

Panel Abutment Detail



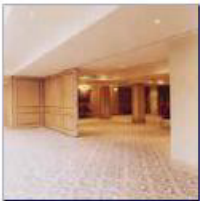
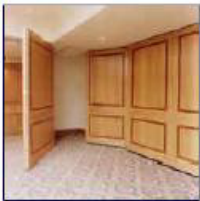
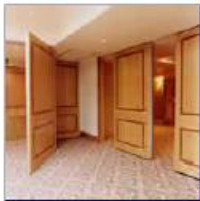
Operable top and bottom seals give 25 mm clearance of both floor and ceiling when fully retracted. Aluminium profiles interlock vertically between panel edges when closed.

Stacking Options



SERIES 500/600 PHOTO GALLERY

Below is a selection of photographs of our 500 and 600 series.



Sound reduction test to ISO 140-3, EN 20 140-3 and DIN 52 210-3

P-BA 264/2001
Illustration 5

Applicant: Franz Nüsing GmbH & Co KG
48163 Münster
Germany

Test specimen:

Twin shell, movable partition wall of wood panel construction (Test Sample S 9066-03), Type NW 100. The movable wall consisted of 4 individual panels, each 1022 mm wide x 2860 mm high, one of which was a telescopic panel. The movable wall was fully operable.

Panel construction

16 mm outer cladding of wood particle board
5 mm acoustic mat (fixed with staples), mass per unit area: 12 kg/m²
52 mm void containing 4 layers of loose laid 13/10 mineral fibre sheets (Product description: G+H Isover, Type 73T, 13/10. Manufacturer's stated density approx. 70 kg/m³)
5 mm acoustic mat (fixed with staples), mass per unit area: 12 kg/m²
16 mm outer cladding of wood particle board

Movable wall thickness: 100 mm

Mass per unit area: 54 kg / m²

For further description, see Page 2 of test report together with Illustrations 1 to 4 and Table 2

Surface area of wall: 12.5 m²

Test rooms:

Volumes: $V_S = 68.6 \text{ m}^3$
 $V_R = 76.4 \text{ m}^3$

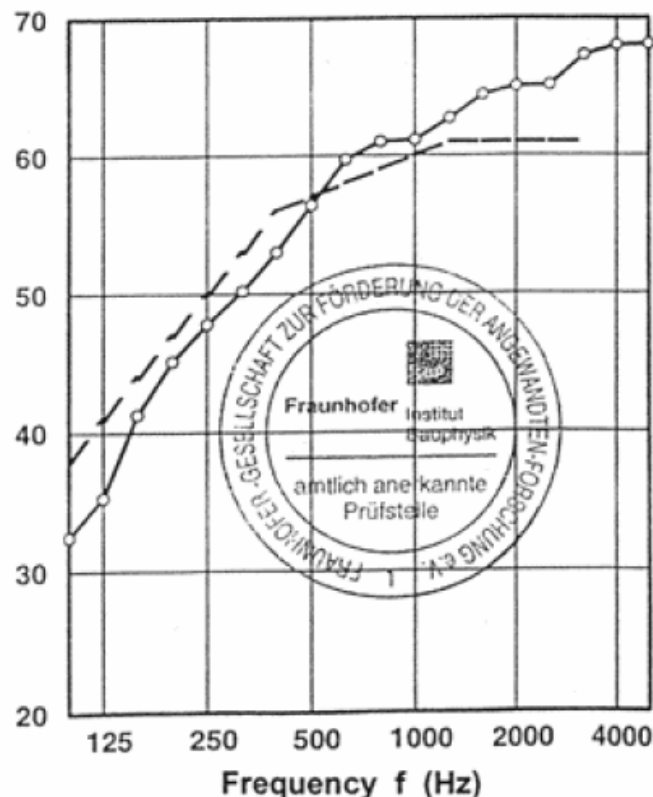
Type: Laboratory
Condition: Empty

Test conditions:

Ambient air temperature: 20° C
Relative humidity of air: 43 %

Date of test: 4 Dec 2001

Sound reduction index R [dB]



Weighted Sound Reduction Index and Spectrum frequency ranges

$R_w (C; C_{tr}; C_{100-5000}; C_{tr 100-5000}) =$
57 (-2; -8; -1; -8) dB

Fraunhofer

Institut Bauphysik

The test was carried out in an IBP test laboratory, which is accredited in accordance with DIN 45001 by the DAP under Certificate number DAP-PL-2135.17. Stuttgart 11 December 2001

Test facility director: (see signature on German original)

Sound reduction test to ISO 140-3, EN 20 140-3 and DIN 52 210-3

P-BA 269/2001
Illustration 5

Applicant: Franz Nüsing GmbH & Co KG
48163 Münster
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Test specimen:

Twin shell, movable partition wall of wood panel construction (Test Sample S 9066-03), Type NW 100. The movable wall consisted of 4 individual panels, each 1022 mm wide x 2860 mm high, one of which was a telescopic panel. The movable wall was fully operable.

Panel construction

16 mm outer cladding of wood particle board
5 mm acoustic mat (fixed with staples), mass per unit area: 12 kg/m²
78 mm void containing 6 layers of loose laid 13/10 mineral fibre sheets (Product description: G+H Isover, Type 73T, 13/10. Manufacturer's stated density approx. 70 kg/m³)
5 mm acoustic mat (fixed with staples), mass per unit area: 12 kg/m²
16 mm outer cladding of wood particle board

Movable wall thickness: 120 mm

Mass per unit area: 56 kg / m²

For further description, see Page 2 of test report together with Illustrations 1 to 4 and Table 2

Surface area of wall: 12.5 m²

Test rooms:

Volumes: $V_S = 68.6 \text{ m}^3$

$V_R = 76.4 \text{ m}^3$

Type: Laboratory

Condition: Empty

Test conditions:

Ambient air temperature: 20° C

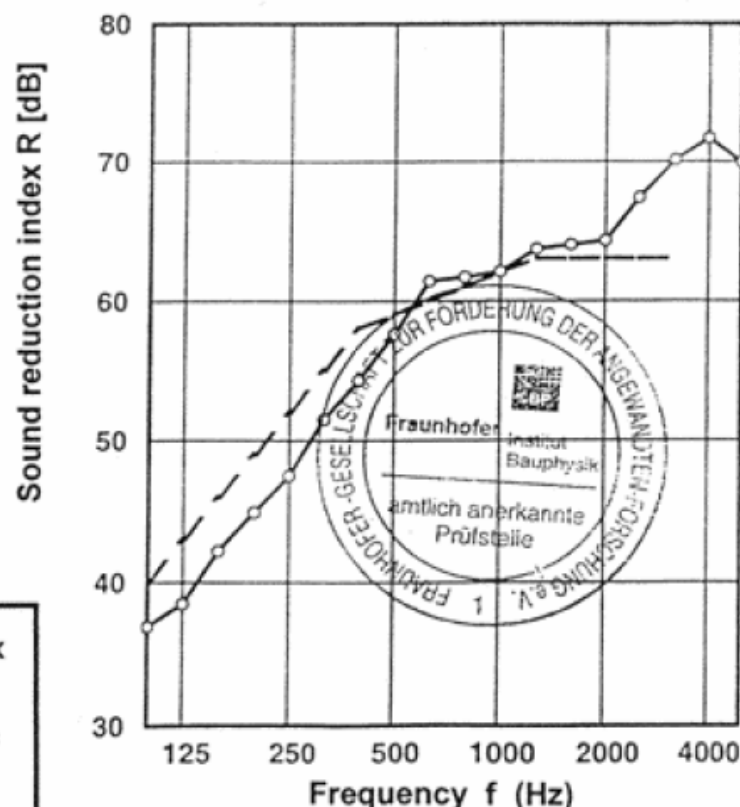
Relative humidity of air: 43 %

Date of test: 6 Dec 2001

Weighted Sound Reduction Index and Spectrum frequency ranges

$R_w (C; C_{tr}; C_{100-5000}; C_{tr 100-5000}) =$

59 (-2; -7; -1; -7) dB



Fraunhofer

Institut Bauphysik

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Test facility director: (see signature on German original)

Construction	Weight per Unit Area (Kg/M2)	Sound Reduction (dB Rw)
75mm stud partition with 12.5mm plasterboard either side.	22	36
97mm stud partition with 12.5mm plasterboard either side.	22	38
75mm clinker block with plaster on one side.	120	39
100mm breeze block with plaster both sides.	185	43
112.5mm brick with 13mm plaster both sides.	270	45
100mm stud partition with two layers of 12.5mm plasterboard either side.	43	45
122 mm stud partition with two layers of 12.5mm plasterboard either side.	43	48
225mm brick with 13mm plaster both sides.	480	50
337.5mm brick with 13mm plaster both sides.	700	53
122mm stud partition with two layers of 12.5mm plasterboard either side and 25mm glass fibre mat.	43	53

Common Sounds	dB value
Threshold Of Hearing.	0
Whisper.	13
Quiet Conversation.	20
Private Office.	30
Quiet Radio.	40
Average Business Office.	50
Recommended Limit For Quiet Office Environment.	55
Normal Conversation.	60
Recommended Limit For Normal Office Environment.	70
Amplified Speech, Road Traffic, Loud Music.	80
Recommended Limit For Factories.	85
25 Piece Orchestra, Shouting Voice 1m.	90
Continuous Noise At This Level Is Dangerous To Hearing.	95
Low Flying Aircraft, Noisy Plant.	100
Hard Rock Band, Noisy Plant.	115
Jet Aircraft Taking Off 20m Distance.	120
Jack Hammer 1m Distance.	125
Threshold Of Pain	130