

Timber acoustic doors

Made to measure for cupboards, sliding doors, folding partitions

STIL
ACOUSTICS



A multi-functional,
made-to-measure
solution.

Acoustic cupboard doors and furniture panels

It is now possible to have instead of acoustic walls
- acoustic cupboards, sliding doors, and folding
partitions which look like normal walls...

The same can be applied to smaller units... With the
Groove and perforated panel range we provide doors
which not only match (or replace) wall panels, but still
provide Class C acoustic performance.

Not visible externally, the core of the panels have
reinforced core boards which create rigid frames and
allow for many types of hinges and handles.

Finish options are as flexible as the existing Groove
and perforated panels, so we push the integrated
principle and creative potential even further.
As with all our timber products, we can supply FSC®
- C163652 certified.

Options quick guide

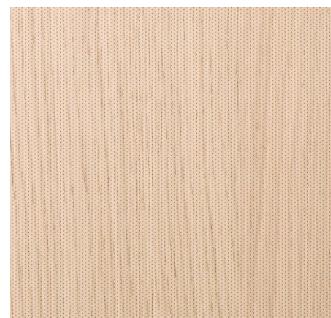


Groove R

Top layer: HPL or Veneer
Long edge: ABS or Veneer
Short edge: ABS
Panel width - free

Cupboard door absorption:

Empty - α_w 0.35 (Class D)
Filled - α_w 0.55 (Class C)



Nanoperforated

Top layer: Veneer
Long edge: Veneer
Short edge: Veneer
Panel width - free

Cupboard door absorption:

Empty - α_w 0.60 (Class C)
Filled - α_w 0.70 (Class C)

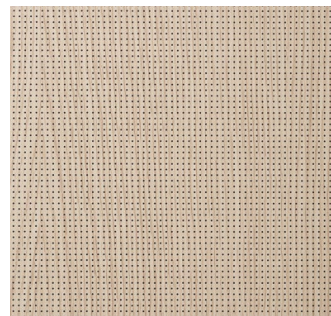


Groove 12

Top layer: HPL or Veneer
Long edge: ABS or Veneer
Short edge: ABS
Panel width - multiple of 16mm

Cupboard door absorption:

Empty - α_w 0.35 (Class D)
Filled - α_w 0.55 (Class C)

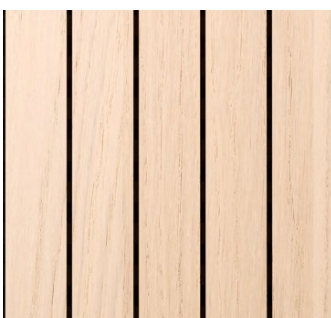


Microperforated

Top layer: HPL or Veneer
Long edge: ABS or Veneer
Short edge: ABS or Veneer
Panel width - free

Cupboard door absorption:

Empty - α_w 0.55 (Class D)
Filled - α_w 0.70 (Class C)

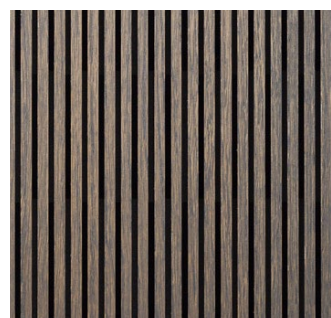


Groove 24

Top layer: HPL or Veneer
Long edge: ABS or Veneer
Short edge: ABS
Panel width - multiple of 32mm

Cupboard door absorption:

Empty - α_w 0.35 (Class D)
Filled - α_w 0.50 (Class D)



Groove 5

Top layer: HPL or Veneer
Long edge: ABS or Veneer
Short edge: ABS
Panel width - multiple of 8mm

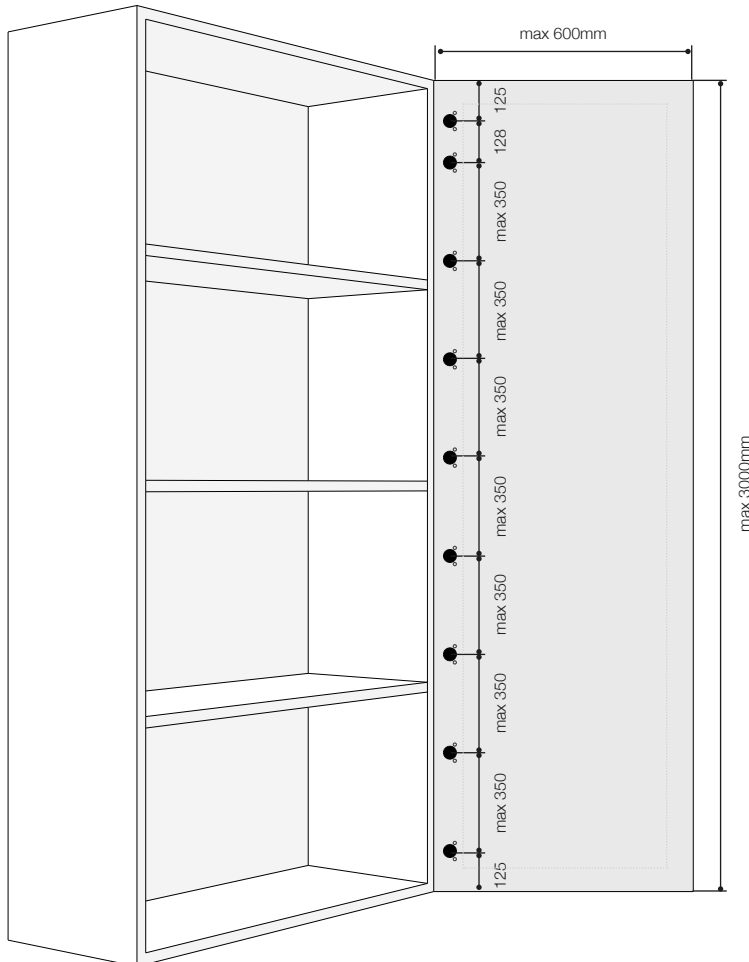
Cupboard door absorption:

Empty - α_w 0.35 (Class D)
Filled - α_w 0.60 (Class C)



Contact us for support with your project.

Cupboard doors design guide



Cupboard doors

Class c absorption is typical.
Considerations for design:

- Max height 3000mm
- Max width 600mm
- Distance between hinges max 350mm
- Top and bottom hinges 125mm from edge
- Double hing at the top
- Magnets - 3 across the height
- For high cupboards- one shelf must be permanent at half way, with the edge on plane with the body

Cupboard sliding doors

Easily installed with a top-running rail fixed directly under the door lintel with a guide at the bottom.

Composition acoustic cupboard doors

Pattern to the faces of the panel go from edge to edge. It's in the black core board where size is considered as the perimeter is unperforated to allow for hinge and profiled or matching edges. We can pre-route the holes for hinges when clear instructions are available.

Solid perimeter of the core board allows fixings for hinges and profiled or veneered edges

2 x 9mm core boards allow matching face to each side

Perforated front face

Black fleece in the middle

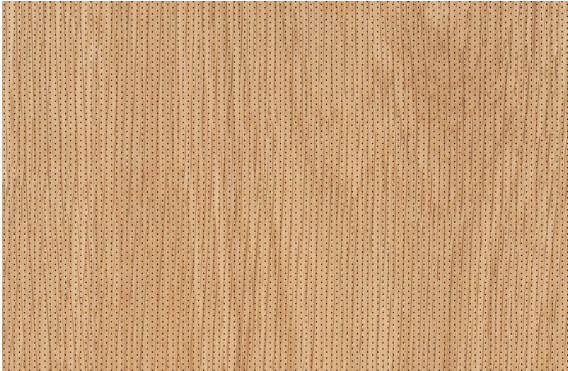
Perforated matching rear face



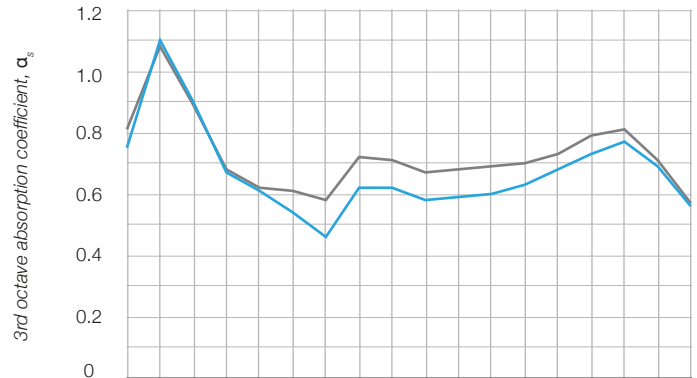


Nanoperf

0.5mm holes at 1.97mm diagonal centres



Absorption data for Nanoperf (EN 354: 2003)

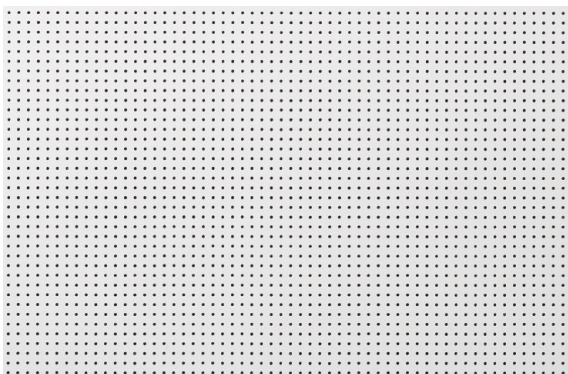


Nanoperf cupboard acoustic performance	α_w	Class	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz
Empty: Cupboard door with 500mm cavity	0,60	C	0,90	0,60	0,55	0,60	0,70	0,65
Filled: As above with 20mm Polyester wool	0,70	C	0,90	0,65	0,65	0,70	0,75	0,70

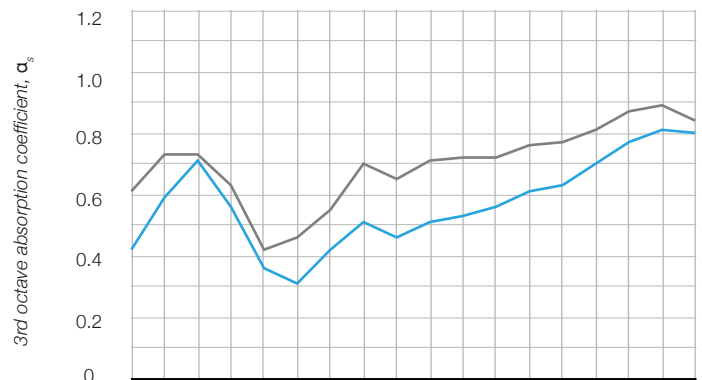
Fire performance	B-s1-d0 components on request
Made to measure doors	On request
Thickness	+/- 21mm
Core	Black moisture resistant MDF/Black fire retardant MDF
Finishes	Veneer - lacquered/oiled
Edges	Veneer

Microperf

1.1mm holes at 3mm centres

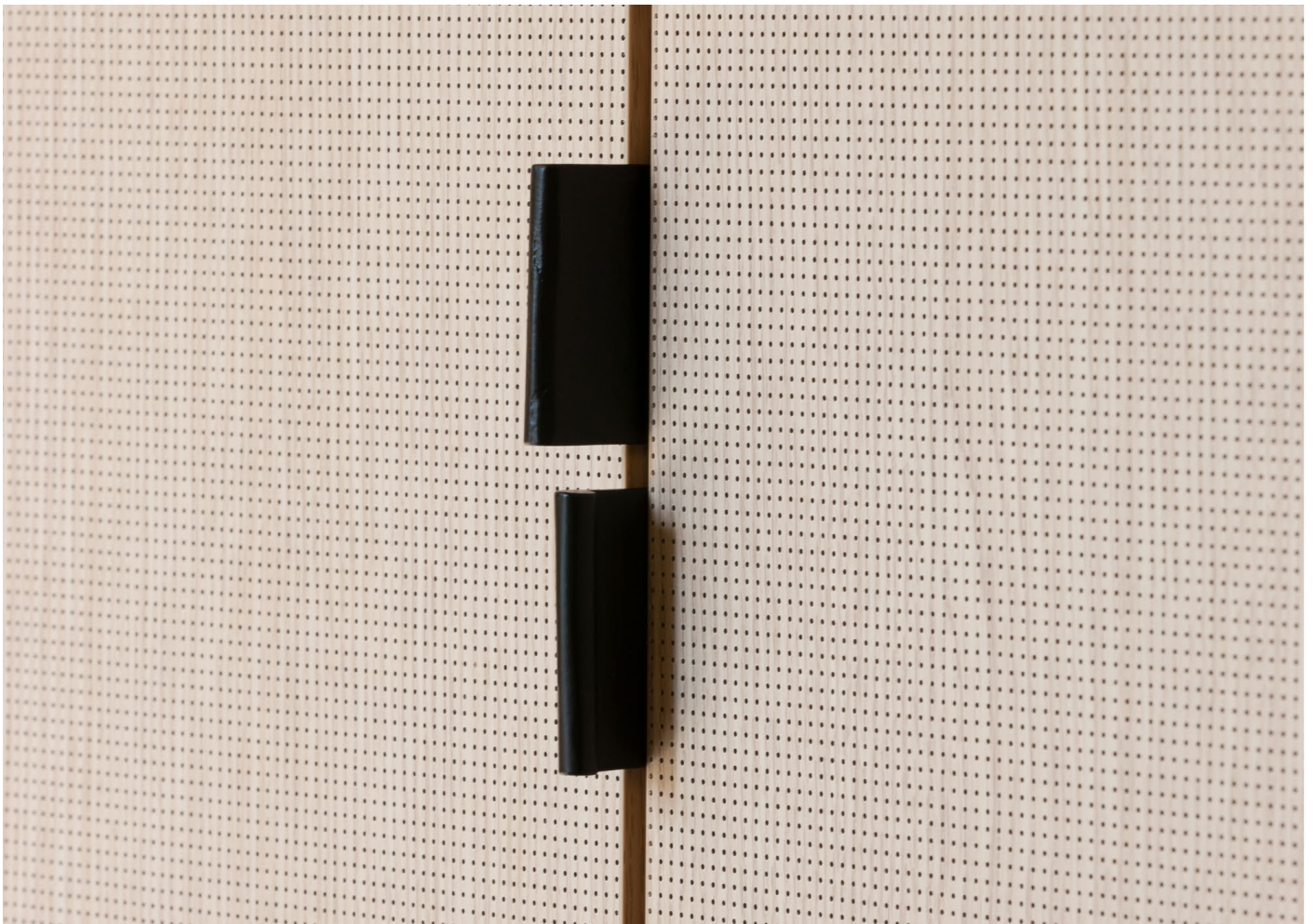


Absorption data for Microperf (EN 354: 2003)



Microperf cupboard acoustic performance	α_w	Class	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz
Empty: Cupboard door with 500mm cavity	0,55	D	0,55	0,40	0,45	0,55	0,65	0,80
Filled: As above with 20mm Polyester wool	0,70	C	0,70	0,50	0,65	0,70	0,80	0,85

Fire performance	B-s1-d0 components on request
Made to measure doors	On request
Thickness	+/- 21mm
Core	Black moisture resistant MDF/Black fire retardant MDF
Finishes	HPL or Veneer (lacquered or oiled)
Edges	Long edge - ABS or veneer; Short edge - ABS or veneer

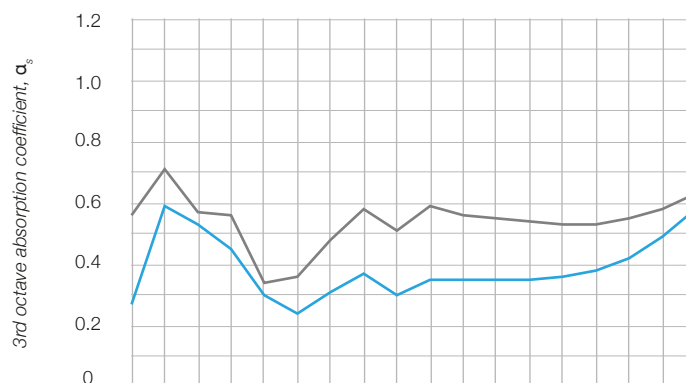


Groove 12

3mm slot width, 13mm slat width



Absorption data for Groove 12 (EN 354: 2003)



Groove 12 cupboard acoustic performance	α_w	Class	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz
Empty: Cupboard door with 500mm cavity	0,35	D	0,45	0,35	0,35	0,35	0,35	0,50
Filled: As above with 20mm Polyester wool	0,55	C	0,60	0,40	0,50	0,55	0,55	0,60

Fire performance

Made to measure doors

Thickness

Core

Finishes

Edges

B-s1-d0 components on request

Panel width should be multiple of 16mm

+/- 21mm

Black moisture resistant MDF/Black fire retardant MDF

HPL or Veneer (lacquered or oiled)

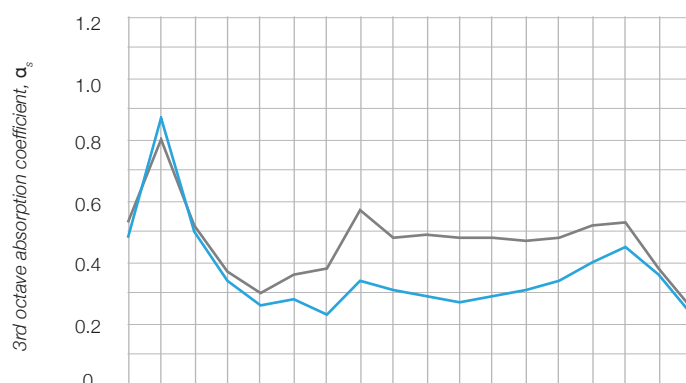
Long edge - ABS or veneer; Short edge - ABS

Groove 24

3mm slot width, 29mm slat width



Absorption data for Groove 24 (EN 354: 2003)



Groove 24 cupboard acoustic performance	α_w	Class	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz
Empty: Cupboard door with 500mm cavity	0,35	D	0,60	0,30	0,30	0,30	0,35	0,35
Filled: As above with 20mm Polyester wool	0,60	C	0,60	0,35	0,45	0,50	0,50	0,40

Fire performance

Made to measure doors

Thickness

Core

Finishes

Edges

B-s1-d0 components on request

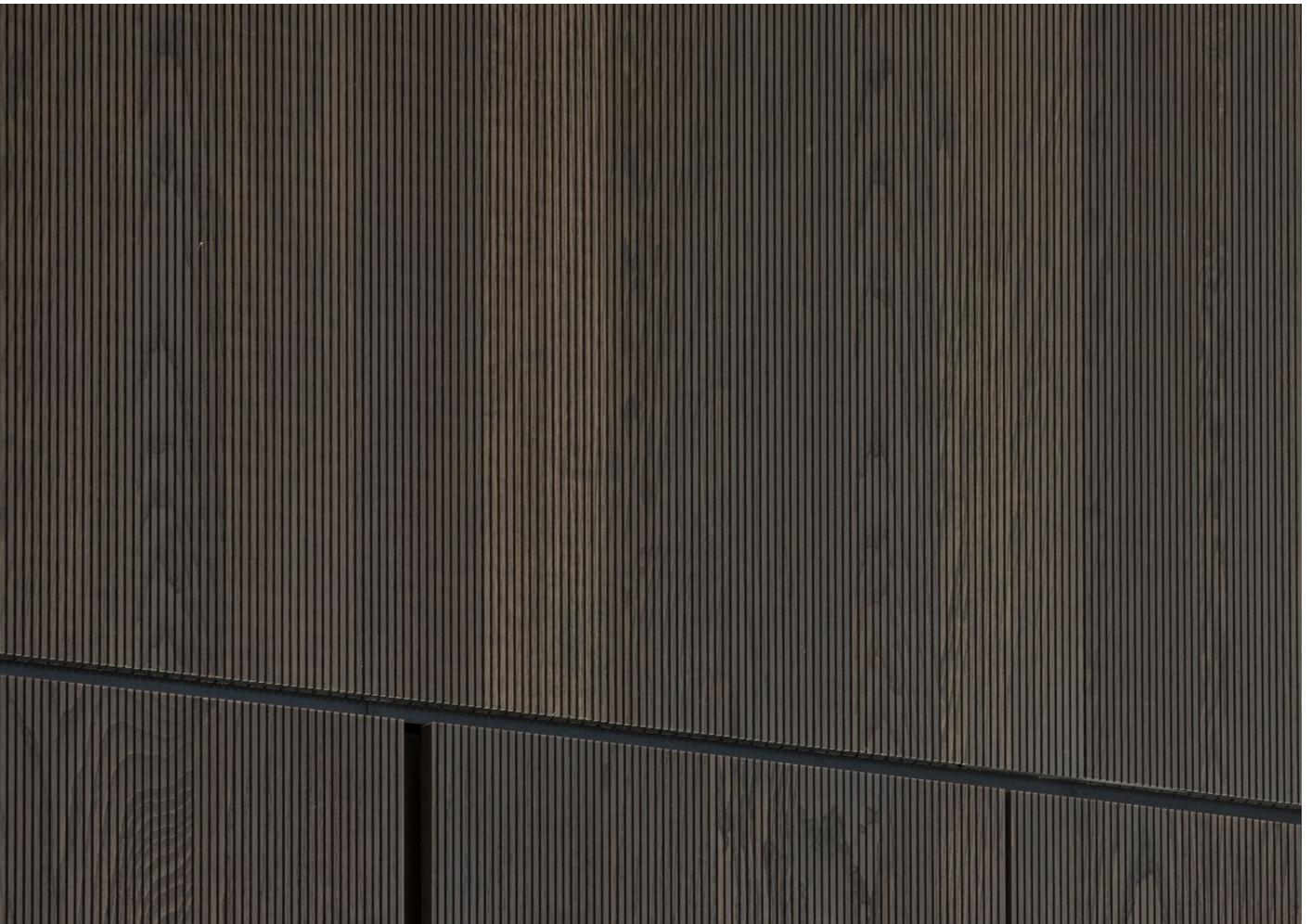
Width should be multiple of 32mm

19mm veneer, 20mm HPL

Black moisture resistant MDF/Black fire retardant MDF

HPL or Veneer (lacquered or oiled)

Long edge - ABS or veneer; Short edge - ABS

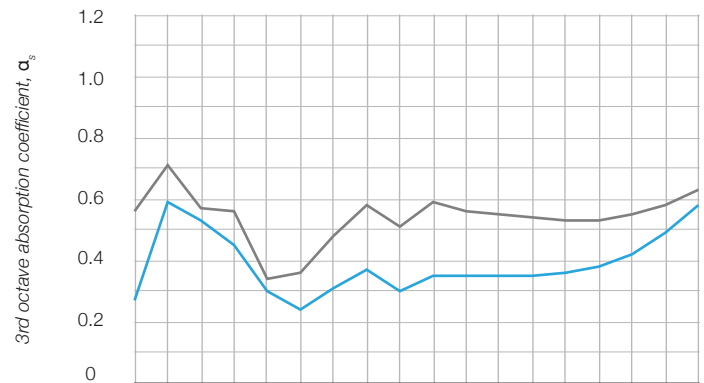


Groove R

3mm slot width, random slot width



Absorption data for Groove R (EN 354: 2003)

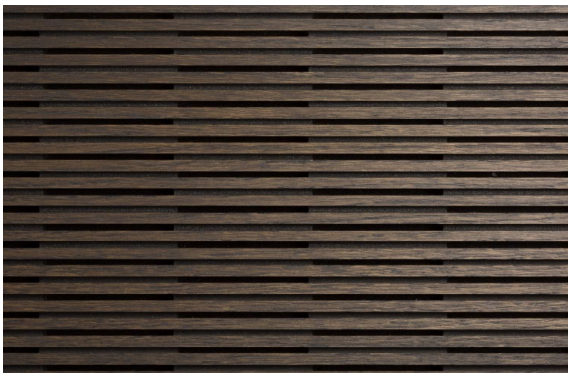


Groove R cupboard acoustic performance	α_w	Class	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz
Empty: Cupboard door with 500mm cavity	0,35	D	0,45	0,35	0,35	0,35	0,35	0,50
Filled: As above with 20mm Polyester wool	0,55	C	0,60	0,40	0,50	0,55	0,55	0,60

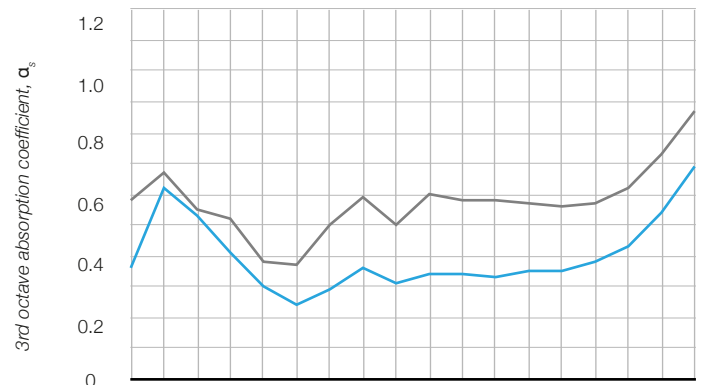
Fire performance	B-s1-d0 components on request
Made to measure doors	Random grooves so no width consideration based on pattern
Thickness	+/- 21mm
Core	Black moisture resistant MDF/Black fire retardant MDF
Finishes	HPL or Veneer (lacquered or oiled)
Edges	Long edge - ABS or veneer; Short edge - ABS

Groove 5-H

3mm slot width, 5mm slat width



Absorption data for Groove 5 (EN 354: 2003)



Groove 5 cupboard acoustic performance	α_w	Class	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz
Empty: Cupboard door with 500mm cavity	0,35	D	0,50	0,30	0,30	0,35	0,35	0,55
Filled: As above with 20mm Polyester wool	0,60	C	0,60	0,40	0,55	0,60	0,55	0,75

Fire performance	B-s1-d0 components on request
Made to measure doors	Width should be multiple of 8mm
Thickness	19mm veneer, 20mm HPL
Core	Black moisture resistant MDF/Black fire retardant MDF
Finishes	HPL or Veneer (lacquered or oiled)
Edges	Long edge - ABS or veneer; Short edge - ABS



**A multi-functional,
made-to-measure
solution.**

Acoustic sliding doors

We can provide made to measure acoustic sliding walls. They consist of two sides with either Groove or Perforated panels with a full edge frame filled with 20mm Polyester wool. Thickness approximately 60mm.







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