



acoustic panel  
products

## ACOUSTICAL PANELS

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With 12 standard perforation or slotted options with custom options available, AAM's perforated acoustic panels are offered in Wood, HPL, Melamine and Lacquered finishes. NRC performance values from 0.7 to 0.95 are available depending on perforation and system type. Additionally, panels can be offered with Class 'A' fire rated faces and Class 'A' or Non-combustible cores.

AAM produces precision machined acoustic wood panels that are designed to reduce the reverberation time so as to improve room acoustics and retain the warmth, beauty and functionality of natural wood. AAM's Real Wood Veneer panels are engineered to work on each of its panel systems to deliver exceptional performance and value.

Select from our extensive range of acoustical wood panels and planks for wall, ceiling and furnishing applications to add elegant functional finishes to your projects. All our Real Wood Veneer components are manufactured to the highest standards and designed to be fire rated and environmentally sound. The task of matching adjacent surfaces is solved utilizing Real Wood Veneer Wallcovering, and Real Wood Veneer Panels Systems and Door faces from our Wood Solutions catalogue to provide a uniform and seamlessly matched, perfectly integrated wood environment.

## COMPOSITE OPTIONS

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## STANDARD DIMENSIONS

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Length:  
120"

Width:  
36"

Thickness:  
5/8"

## SURFACES

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Real Wood Veneers®

HPL

Lacquer / Paint

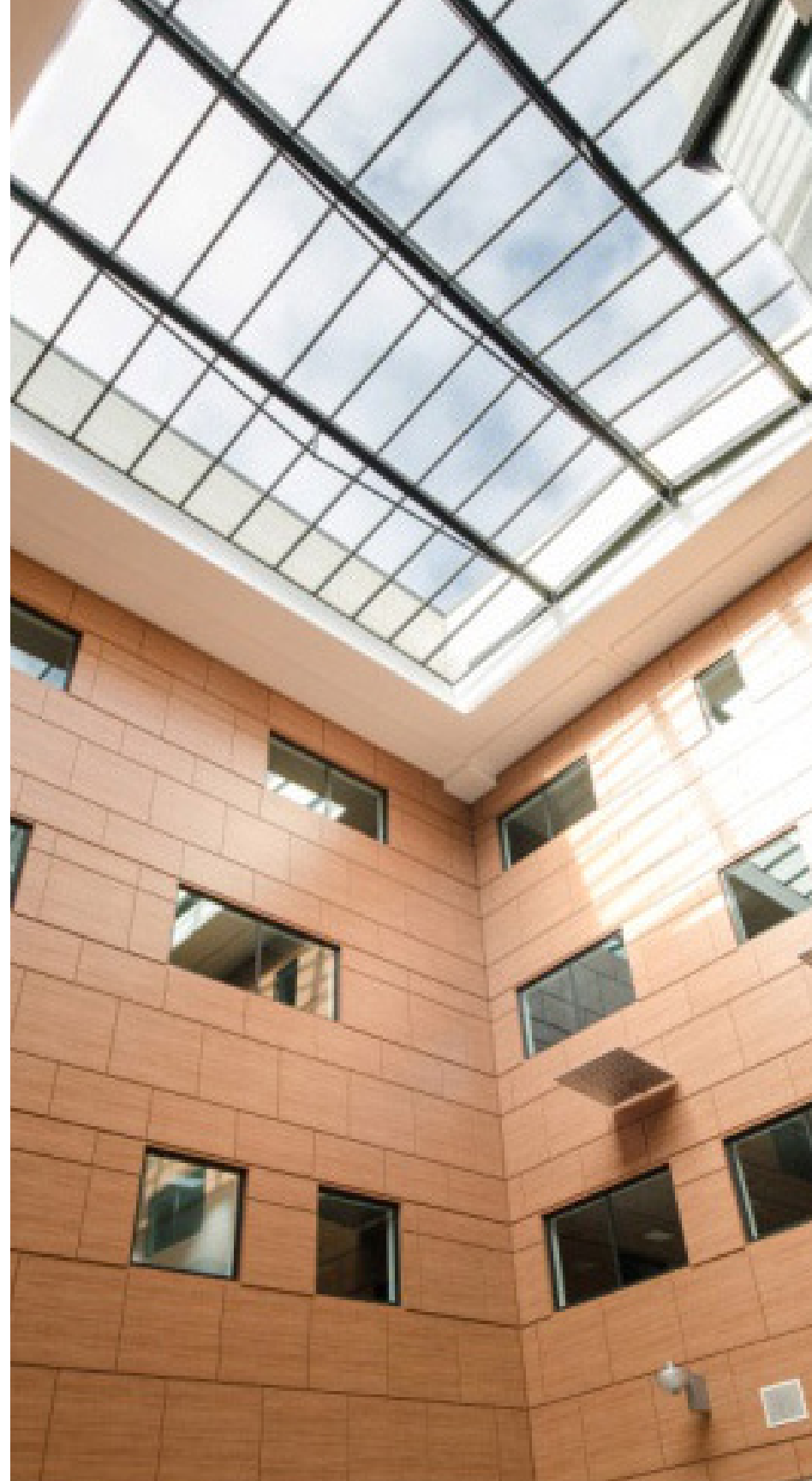
## SUBSTRATES

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Standard MDF

Class A Fire Rated MDF (3/4" - 18mm)

Non Combustible Board (3/4" - 18mm)



## ACOUSTICAL PLANKS

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Beautifully simple, zero waste, easy install. Acoustical planks are available from inventory in top selling species and ship with fasteners in a matter of days.

The sophisticated acoustic plank system is perfectly suited for room acoustic optimization for wall and / or ceiling coverings. The continuous system can be flexibly adapted to any room situation and offers a modern, linear design. You can choose between micro-perforated, perforated and slotted planks in various designs. The planks are easy to use and almost intuitive to install. With a width of 192 mm, they are about 50% larger than traditional plank systems, thus greatly shortening the installation time.

All perforation and slot patterns offer outstanding sound-absorbing properties. The system requires minimal planning effort and can be offered at an optimum price / performance ratio.

## COMPOSITE OPTIONS

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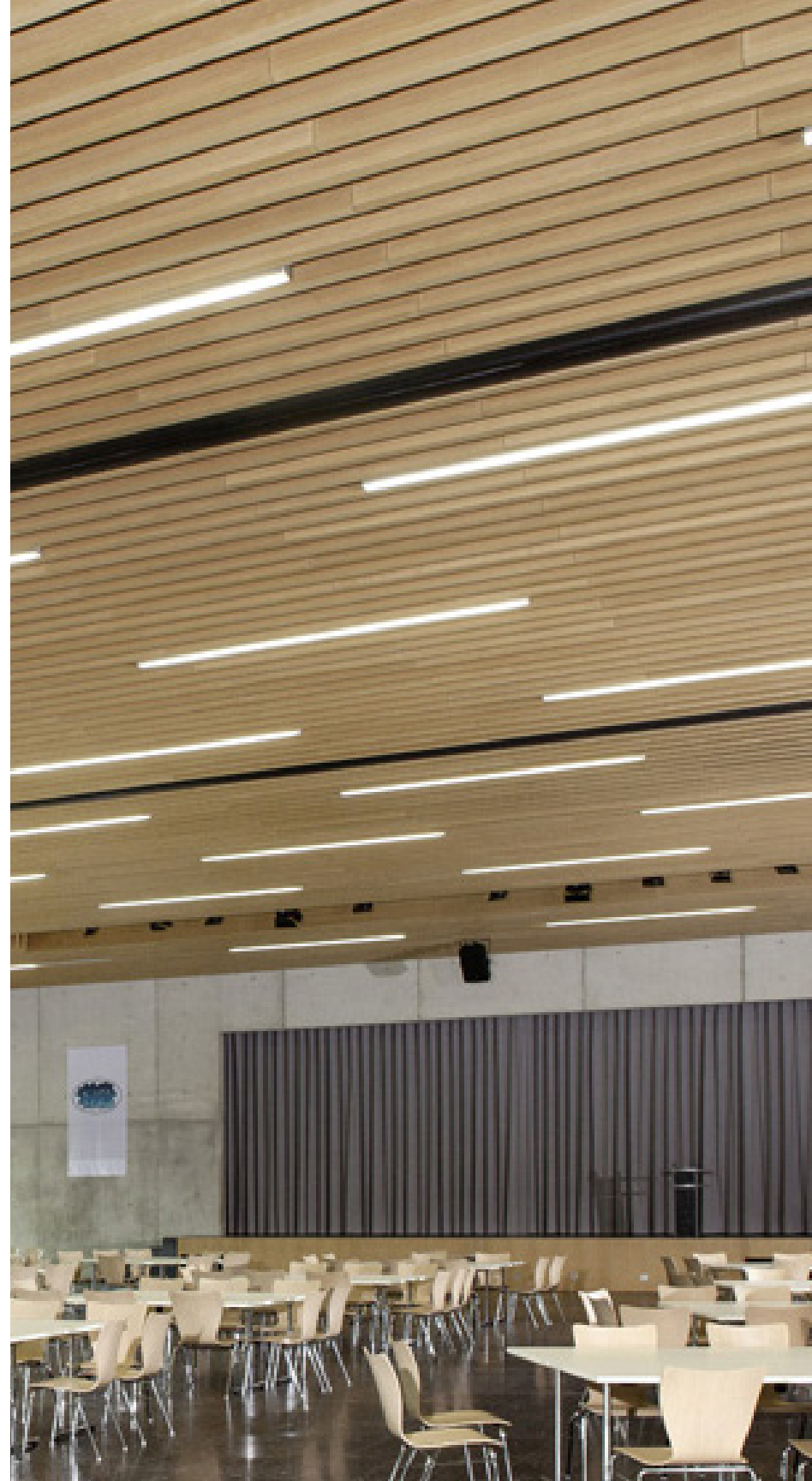
## STANDARD DIMENSIONS

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Length:  
120"

Width:  
7.5"

Thickness:  
5/8" - 3/4"



## ACOUSTICAL BAFFLES

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Acoustical baffles can be supplied as components made of compact broadband absorbers that are highly effective in the frequency range relevant for speech. Custom solutions can be created for any room complete with hanging kits and with or without inset lighting for plug and play performance.

Acoustical Baffles are great way to increase the acoustically absorbent surfaces available in a room. Baffles can absorb sound from multiple faces and can be installed both horizontally and vertically.

Surface selections including Real Wood Veneers®, HPL, Paint & Lacquer finishes. Performance criteria include Fire Rated and Non-Combustible Substrates.

# COMPOSITE OPTIONS

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## SURFACES

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Real Wood Veneers®

HPL

Lacquer / Paint

## SUBSTRATES

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Standard MDF

Class A Fire Rated MDF (3/4" - 18mm)

Non Combustible Board (3/4" - 18mm)



## ACOUSTICAL CLOUDS

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Acoustical clouds can be supplied as cloud panel components or complete with hanging kits and with or without inset lighting for plug and play performance.

Room surfaces such as ceilings lend themselves particularly well to the installation of acoustic products. If necessary, the entire expanse of a ceiling can be utilized as absorption surface, and the sub-construction can be accommodated without restricting the available space within a room. The required sub-construction simultaneously provides the necessary clearance or cavity below the actual ceiling, which is essential for effective sound absorption. Acoustical clouds can be supplied as cloud panel components or complete with hanging kits with or without inset lighting. Working with prefabricated modules facilitates planning, commissioning and installation while also making subsequent revisions straightforward.

Surface selections includes Real Wood Veneers®, HPL, Paint & Lacquer finishes. Performance criteria includes Fire Rated and Non-Combustible Substrates.



# COMPOSITE OPTIONS

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## SURFACES

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Real Wood Veneers®

HPL

Lacquer / Paint

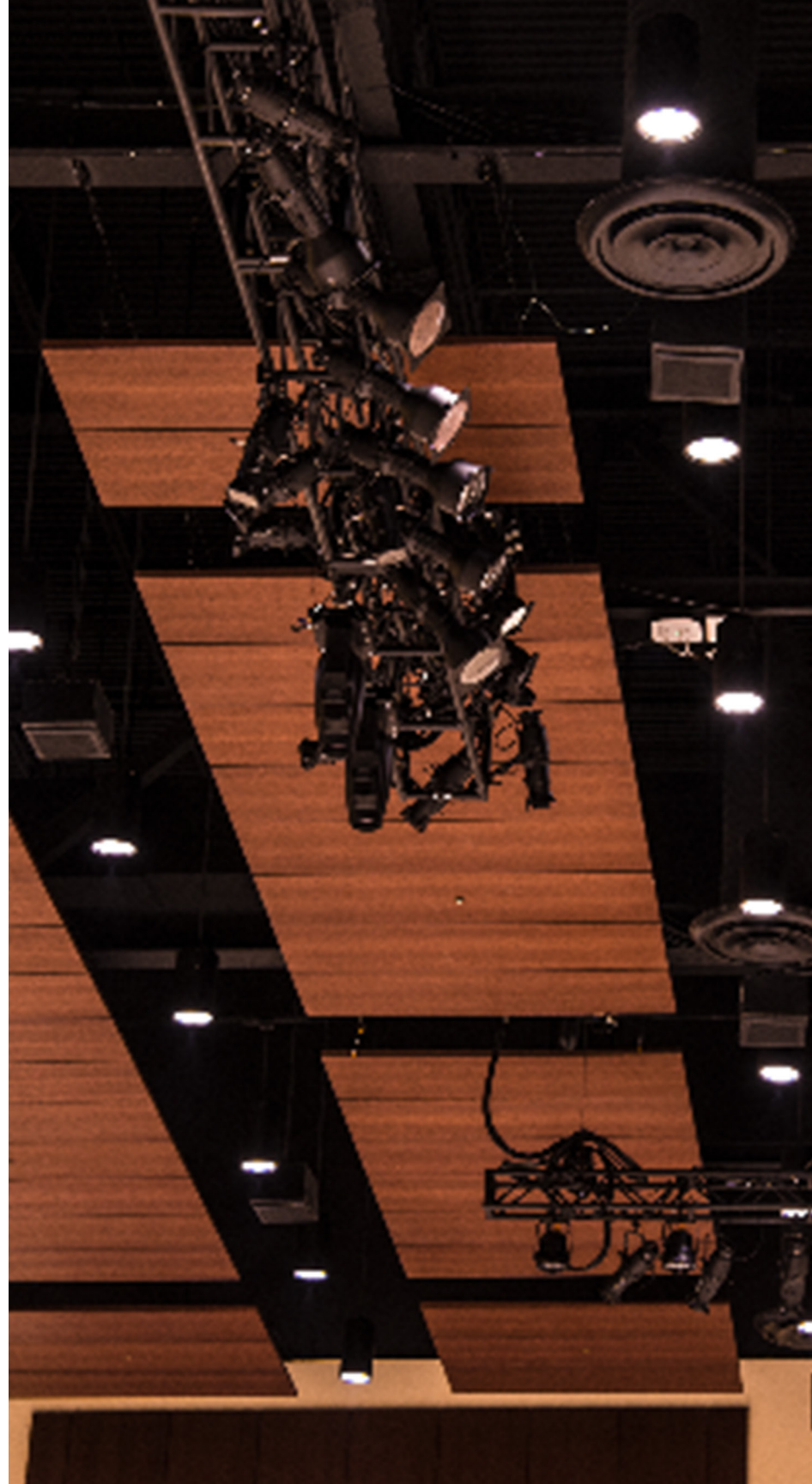
## SUBSTRATES

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Standard MDF

Class A Fire Rated MDF (3/4" - 18mm)

Non Combustible Board (3/4" - 18mm)



# PERFORATED PANELS

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Perforated and micro perforated panels provide aesthetically pleasing high performance acoustical panels. Acoustical performance alters as the size, spacing and pattern of holes change.

Surface selections includes Real Wood Veneers®, HPL, Paint & Lacquer finishes. Performance criteria includes fire rated and non combustibile substrates.

# PERFORATION 1.8, 1.8, 0.5

## CONSTRUCTION

### Surface Options:

Wood Veneer, High Pressure Laminate,  
Lacquer/Paint

### Substrate Options:

3/4" MDF is Standard.

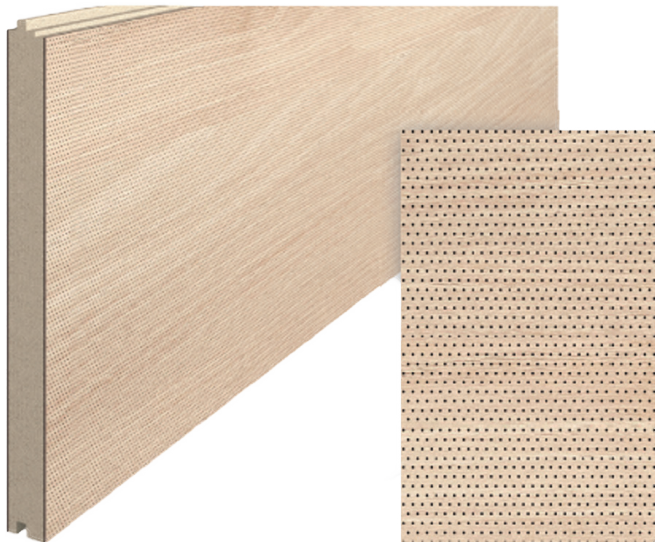
Also available in particleboard, FR MDF or  
Non Combustible

### Edge Options:




Wood, ABS, HPL, Custom

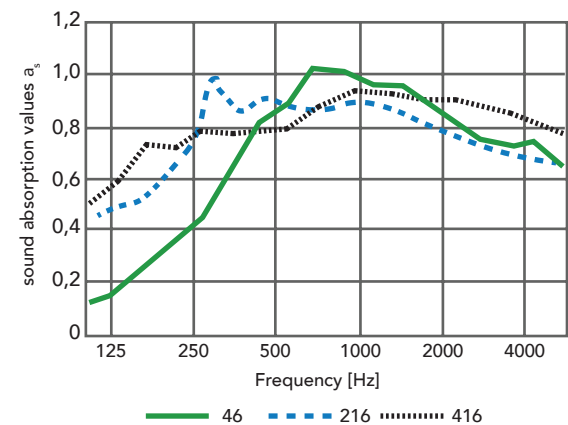
### Surface Options:

Wall Panels, Ceilings, Clouds, Baffles and  
furniture



## Sound Absorption Values

Sketch Wall / Ceiling Distance			
Overall Structure	46mm	216mm	416mm
Hollow Space	-	150mm	350mm
Mineral Wool	30mm	50mm	50mm
Panel Thickness	16mm	16mm	16mm
Frequency [Hz]	$a_s$	$a_s$	$a_s$
100	0,11	0,40	0,51
125	0,14	0,48	0,61
160	0,23	0,65	0,76
200	0,35	0,75	0,75
250	0,46	0,99	0,84
315	0,70	0,91	0,81
400	0,87	0,97	0,84
500	0,95	0,95	0,83
630	1,08	0,95	0,94
800	1,08	0,93	0,99
1.000	1,04	1,01	0,99
1.250	1,01	0,98	0,98
1.600	0,96	0,95	0,95
2.000	0,88	0,91	0,95
2.500	0,80	0,87	0,93
3.150	0,78	0,82	0,90
4.000	0,78	0,77	0,86
5.000	0,67	0,70	0,82
$a_w$	0,80	0,90	0,95
NRC	0,85	0,95	0,90
SAA	0,85	0,93	0,90
Absorption Class	B	A	A



# PERFORATION 4.0, 4.0, 1.5

## CONSTRUCTION

### Surface Options:

Wood Veneer, High Pressure Laminate,  
Lacquer/Paint

### Substrate Options:

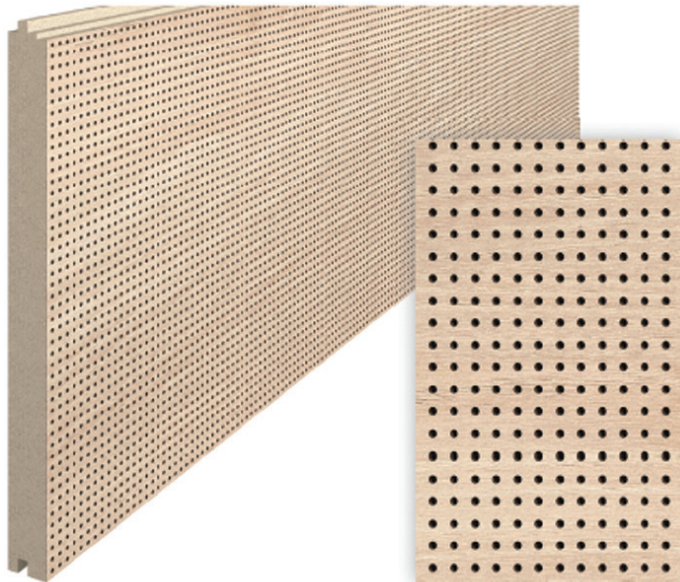
3/4" MDF is Standard.  
Also available in particleboard, FR MDF or  
Non Combustible

### Edge Options:




Wood, ABS, HPL, Custom

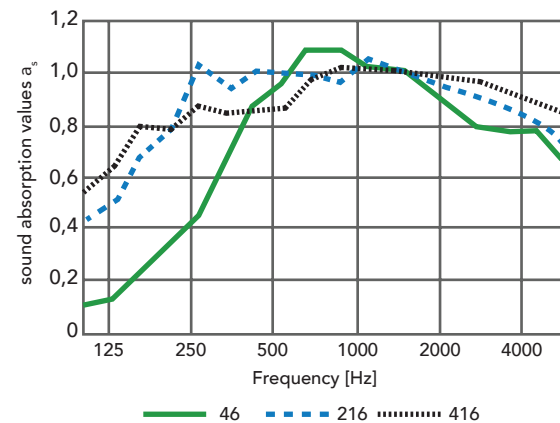
### Surface Options:

Wall Panels, Ceilings, Clouds, Baffles and  
furniture



## Sound Absorption Values

Sketch Wall / Ceiling Distance			
Overall Structure	46mm	216mm	416mm
Hollow Space	-	150mm	350mm
Mineral Wool	30mm	50mm	50mm
Panel Thickness	16mm	16mm	16mm
Frequency [Hz]	$a_s$	$a_s$	$a_s$
100	0,11	0,40	0,51
125	0,14	0,48	0,61
160	0,23	0,65	0,76
200	0,35	0,75	0,75
250	0,46	0,99	0,84
315	0,70	0,91	0,81
400	0,87	0,97	0,84
500	0,95	0,95	0,83
630	1,08	0,95	0,94
800	1,08	0,93	0,99
1.000	1,04	1,01	0,99
1.250	1,01	0,98	0,98
1.600	0,96	0,95	0,95
2.000	0,88	0,91	0,95
2.500	0,80	0,87	0,93
3.150	0,78	0,82	0,90
4.000	0,78	0,77	0,86
5.000	0,67	0,70	0,82
$a_w$	0,80	0,90	0,95
NRC	0,85	0,95	0,90
SAA	0,85	0,93	0,90
Absorption Class	B	A	A



# PERFORATION 8.0, 8.0, 3.0

## CONSTRUCTION

### Surface Options:

Wood Veneer, High Pressure Laminate,  
Lacquer/Paint

### Substrate Options:

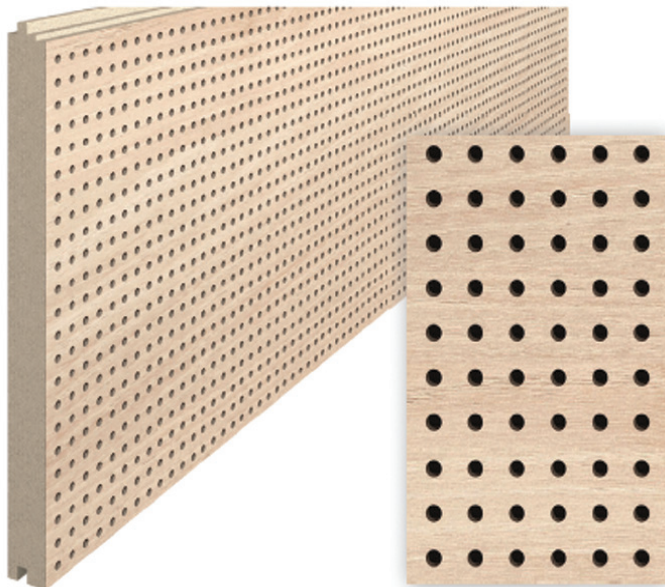
3/4" MDF is Standard.  
Also available in particleboard, FR MDF or  
Non Combustible

### Edge Options:




Wood, ABS, HPL, Custom

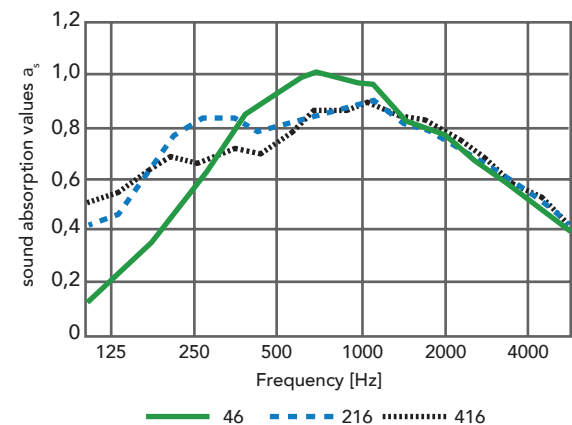
### Surface Options:

Wall Panels, Ceilings, Clouds, Baffles and  
furniture



## Sound Absorption Values

Sketch Wall / Ceiling Distance			
Overall Structure	46mm	216mm	416mm
Hollow Space	-	150mm	350mm
Mineral Wool	30mm	50mm	50mm
Panel Thickness	16mm	16mm	16mm
Frequency [Hz]	$a_s$	$a_s$	$a_s$
100	0,13	0,44	0,52
125	0,22	0,47	0,56
160	0,33	0,60	0,65
200	0,46	0,78	0,69
250	0,61	0,83	0,67
315	0,80	0,84	0,72
400	0,90	0,79	0,72
500	0,96	0,81	0,78
630	1,01	0,85	0,86
800	0,98	0,87	0,87
1.000	0,95	0,91	0,89
1.250	0,85	0,83	0,85
1.600	0,80	0,80	0,82
2.000	0,72	0,74	0,77
2.500	0,65	0,66	0,69
3.150	0,55	0,58	0,60
4.000	0,47	0,50	0,53
5.000	0,40	0,41	0,44
$a_w$	0,65	0,70	0,70
NRC	0,80	0,80	0,80
SAA	0,81	0,81	0,78
Absorption Class	C	C	C



## SLOTTED PANELS

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Perforated and micro perforated slotted panels provide aesthetically pleasing high performance acoustical panels. Acoustical performance alters as the size, spacing and pattern of holes change.

Surface selections includes Real Wood Veneers®, HPL, Paint & Lacquer finishes. Performance criteria includes fire rated and non combustible substrates.

# PERFORATION 16.0, 2.0

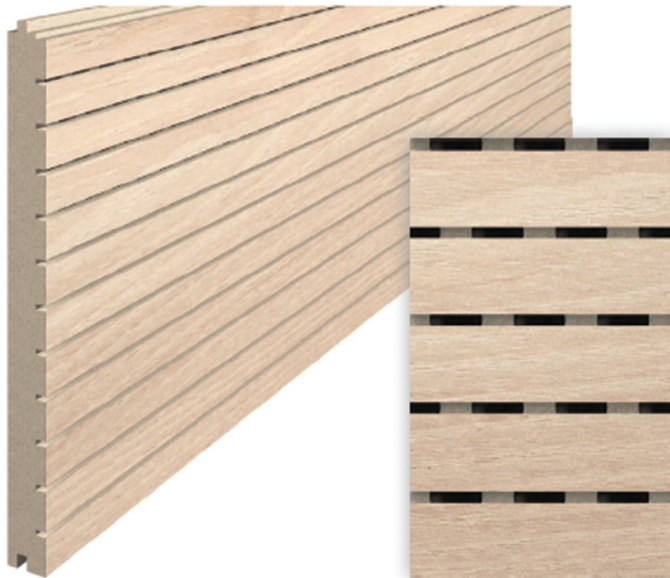
## CONSTRUCTION

### NRC




Noise Reduction Coefficient ASTM C423

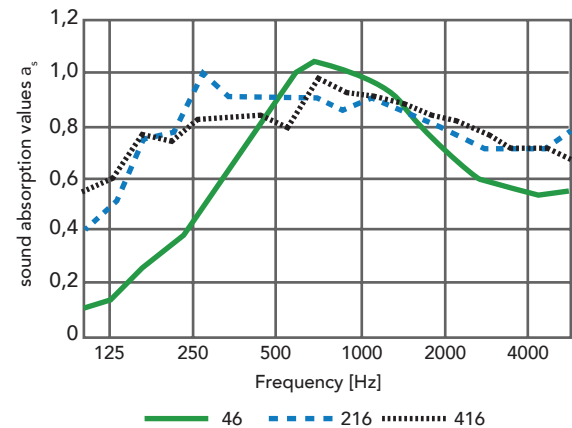
### SAA

Sound Absorption Average ASTM C423



## Sound Absorption Values

Sketch Wall / Ceiling Distance			
Overall Structure	46mm	216mm	416mm
Hollow Space	-	150mm	350mm
Mineral Wool	30mm	50mm	50mm
Panel Thickness	16mm	16mm	16mm
Frequency [Hz]	$a_s$	$a_s$	$a_s$
100	0,10	0,40	0,54
125	0,14	0,51	0,59
160	0,25	0,74	0,75
200	0,34	0,78	0,74
250	0,47	0,99	0,82
315	0,66	0,91	0,82
400	0,80	0,91	0,83
500	0,97	0,89	0,80
630	1,03	0,89	0,97
800	1,01	0,86	0,91
1.000	0,96	0,89	0,91
1.250	0,88	0,84	0,87
1.600	0,76	0,80	0,84
2.000	0,66	0,78	0,81
2.500	0,59	0,72	0,76
3.150	0,56	0,71	0,71
4.000	0,52	0,71	0,69
5.000	0,53	0,75	0,67
$a_w$	0,70	0,80	0,85
NRC	0,75	0,90	0,85
SAA	0,76	0,86	0,84
Absorption Class	C	B	B



# PERFORATION 16.0, 3.0

## CONSTRUCTION

### NRC




Noise Reduction Coefficient ASTM C423

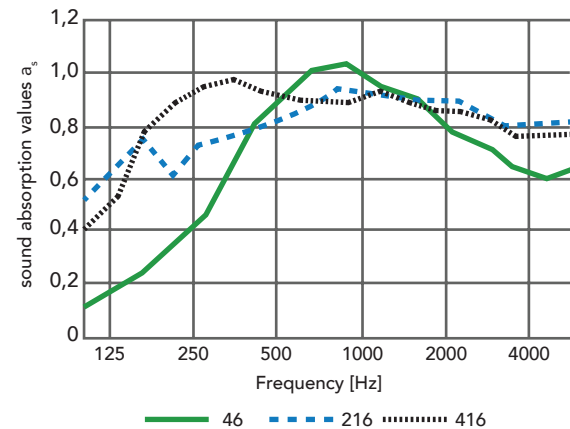
### SAA

Sound Absorption Average ASTM C423



## Sound Absorption Values

Sketch Wall / Ceiling Distance			
Overall Structure	46mm	216mm	416mm
Hollow Space	-	150mm	350mm
Mineral Wool	30mm	50mm	50mm
Panel Thickness	16mm	16mm	16mm
Frequency [Hz]	$a_s$	$a_s$	$a_s$
100	0,10	0,40	0,52
125	0,18	0,53	0,62
160	0,24	0,78	0,75
200	0,34	0,88	0,62
250	0,45	0,94	0,73
315	0,65	0,97	0,75
400	0,81	0,94	0,79
500	0,92	0,91	0,83
630	1,01	0,91	0,91
800	1,03	0,90	0,95
1.000	0,97	0,93	0,95
1.250	0,93	0,90	0,93
1.600	0,86	0,86	0,91
2.000	0,76	0,85	0,89
2.500	0,71	0,82	0,84
3.150	0,63	0,77	0,81
4.000	0,60	0,77	0,80
5.000	0,62	0,77	0,81
$a_w$	0,75	0,90	0,90
NRC	0,80	0,90	0,85
SAA	0,79	0,90	0,84
Absorption Class	C	A	A





# PERFORATION 16.0, 4.0

## CONSTRUCTION

### NRC

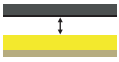
Noise Reduction Coefficient ASTM C423

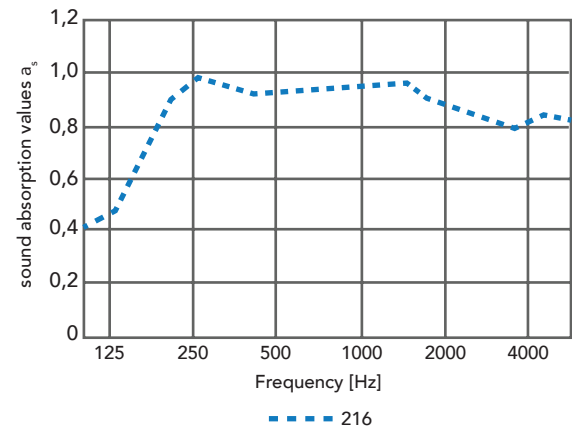
### SAA

Sound Absorption Average ASTM C423



## Sound Absorption Values

Sketch Wall / Ceiling Distance	
Overall Structure	216mm
Hollow Space	150mm
Mineral Wool	50mm
Panel Thickness	16mm
Frequency [Hz]	$a_s$
100	0,40
125	0,47
160	0,66
200	0,88
250	0,97
315	0,94
400	0,91
500	0,91
630	0,91
800	0,92
1.000	0,93
1.250	0,94
1.600	0,90
2.000	0,87
2.500	0,82
3.150	0,78
4.000	0,81
5.000	0,80
$a_w$	0,90
NRC	0,90
SAA	0,91
Absorption Class	A



# QUICK SHIP OPTIONS

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## REAL WOOD VENEER®



WALNUT FC



CHERRY FC

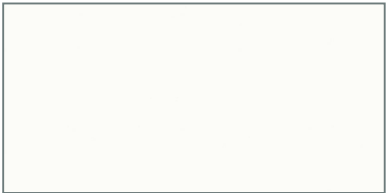


MAPLE FC

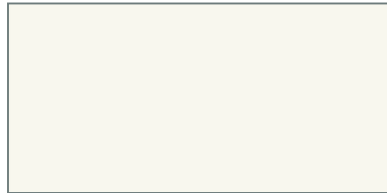


WHITE OAK RC

## CARBONZERO® & HPL



VANILLA  
AAM1017



POLAR WHITE  
AAM1018



CAFE  
AAM1024



STRATUS  
AAM1026



LEAD  
AAM1176



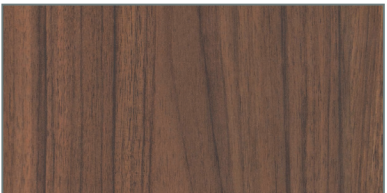
MODERN CONCRETE  
AAM1056



GREY OAK  
AAM1110



DARK LARCH  
AAM1115



TUSCAN WALNUT  
AAM1122



OLIVE  
AAM1127

## WARRANTY

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AAM warrants and represents to the customer that the workmanship of its products will be free from faults and defects of design, material and workmanship for one (1) year from the date of shipment. AAM's warranty obligation for its products is valid only for the standard application in which the wall panels are used when properly installed in accordance with applicable building codes, conditions indicated on our Shop Drawing Design, industry accepted standards and AAM's installation requirements.

AAM's liability is limited to the replacement only of goods deemed by AAM to be defective.



A perfect solution to  
provide improved and  
fully customizable functionality.  
Acoustic panels.



**AMERICAN**  
ARCHITECTURAL  
**MILLWORK**



acoustic panel  
products