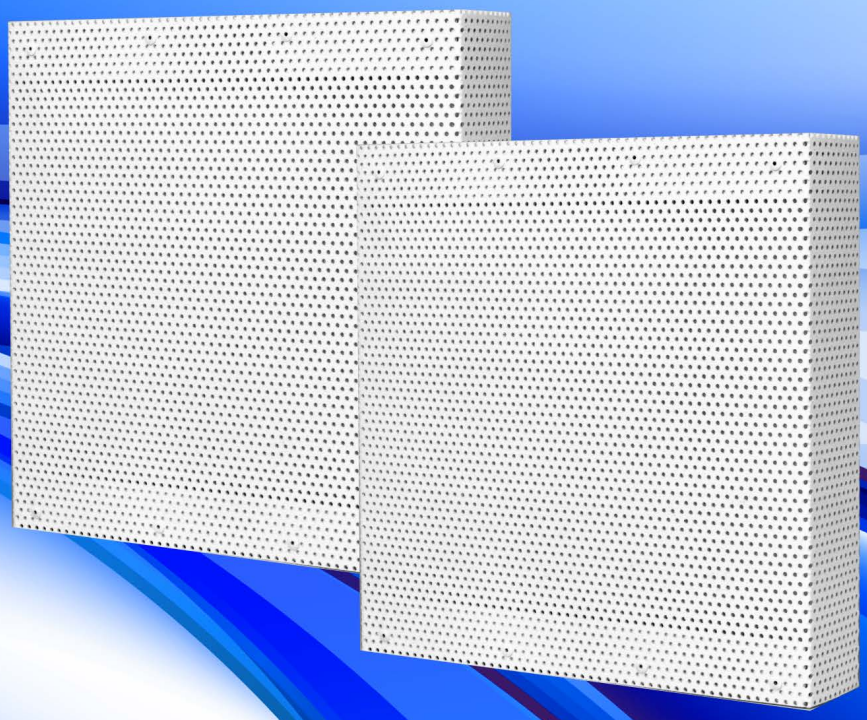
a perfect partner in performance...

AWC Airwellcare



Management System ISO 9001:2008

TÜVRheinland CERTIFIED

www.tuv.com ID 9105080818

amca INTERNATIONAL MEMBER

ACOUSTIC PANELS

Our Product Ranges

Dampers

1 Fire Dampers
2 Fire / Smoke Dampers
3 Volume Control Dampers
4 Motorized Control Dampers
5 Pressure Relief Dampers /Non Return Dampers

Variable Air Volumes

6 Pressure Independent VAV
7 Constant Air Volume VAV
8 By Pass VAV

Louvers

9 Sand Trap Louvers
10 Acoustic Louvers
11 Stationery Louvers / Architectural Louvers
12 Storm Louvers
13 Weather Louvers

Sound Attenuators

14 Rectangular Sound Attenuators
15 Circular Sound Attenuators
16 Crosstalk Attenuators

Electric Duct Heaters

17 Flange & Slip 'n' Type
18 Modulating & On/Off Type

Air Outlets

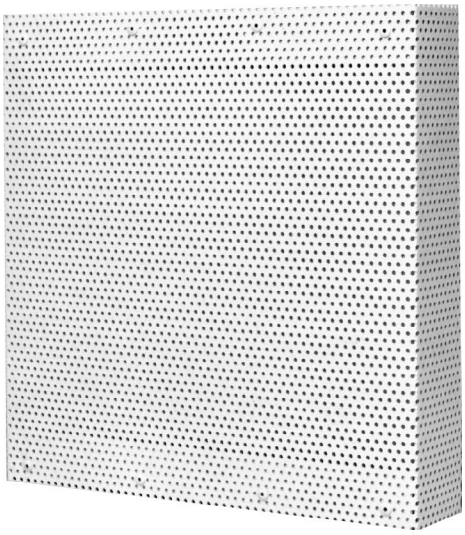
19 Registers & Grilles
20 Diffusers (Linear Diffusers, Sq. & Rect. Ceiling Diffusers, Round Diffusers, Jetflow Diffusers
21 Swirl Diffusers & Disc Valves
22 Drum Louvers

INDEX

MODEL : AWC APG-100

ACOUSTIC PANELS

Airwellcare Acoustic Panels are excellent sound absorbers over a wide frequency range. Their acoustic properties combined with their appearance and rugged durability make them a perfect choice for controlling reverberant noise problems. These Panels are suitable for Outdoor & Indoor use and are ideal for installation over existing barrier walls and are excellent in resisting damage from impacts, abrasion, or moisture.



Airwellcare APG-100 Panel Absorbers are functional and aesthetically pleasing Galvanized perforated panels, which are used to control reverberant noise problems for major applications such as Factories, waste water treatment facilities, pump rooms, equipment yard barrier walls, Auditoriums, Indoor stadiums, Recording studios, Schools, Offices, Theaters, Conference halls etc. Although primarily intended as an absorber, the panels will act as a barrier when a solid back is added. APG-100 panels are also useful as additions to existing metal or concrete barriers to reduce reverberation time and to lower reflected sound.

Major Applications

Recording Studios

Auditoriums & Assembly Halls

Schools & Class Rooms

Office Environments

Theaters & Conference Hall

CONSTRUCTION DETAILS

Construction

22 Gauge Galvanized Perforated Steel sheet Or Optional : 22 Gauge Aluminium Perforation.
Rear Side : 22 Gauge Galvanized Or Aluminium Sheet.

Acoustic Infill property of 32 - 68 Kg. / M^3 Density Fiberglass material, covering black vinyl tissue.

FIRE TEST DATA
Class A per ASTM E84

MAXIMUM SIZES
Standard sizes up to 48" wide x 90" high
Custom Size can be made as per requirement.

MOUNTING

Finish & Colour

Standard Powder Coated finish as per approved RAL Colour Codes.

The following custom based optional coatings / finish are also available on request.

- Super-Durable Polyester Powder Coating (SDF)
- Hyper-Durable Flurocarbon Polymer Coating (HDF)
- Polyvinylidene fluoride coating/KYNAR Coating (PVDF/KYNAR)

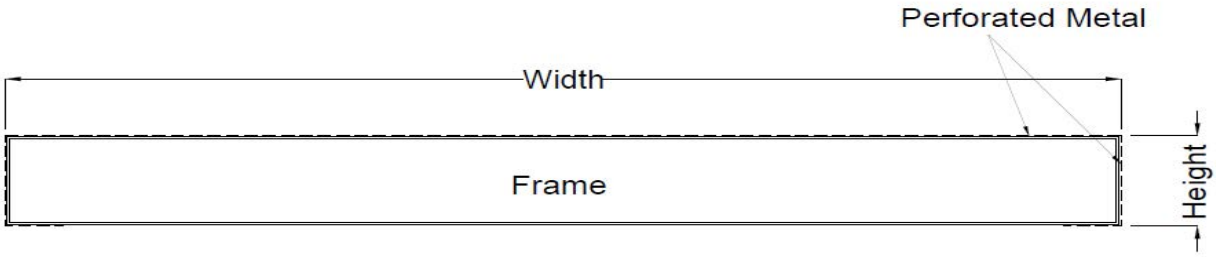
The above finishes complies to AAMA 2603 / 2604 / 2605 requirements with 20-year limited warranty against failure or excessive fading.

Acoustic Property

- Thickness & density can be changed according to the Technical Calculations, to obtain the optimum performance of the Attenuators.
- Non combustible when tested in accordance with BS 476 : Part 4: 1970, ASTM E-136, NFPA255 and UL 723 testing methods.
- Fill material is class-1 as tested in accordance with ASTM-84.
- Fiberglass shall be density calculated to provide the acoustic and aerodynamic performance.
- Tested for Temp. upto 750° C in accordance with DIN 52271.
- Meet the requirements of BS 2972 Sec.22 & ASTM C-871, ASTM-C-795, ASTM C-692. ASTM C-177/C-518 & DIN 52612 for low thermal conductivity.
- Sound absorption in accordance with BS 3638 & ISO 0354.
- Inert, vermin-proof, weather rated non combustible acoustic infill.
- The acoustic infill material complies with Class 'O' of the U.K.'s Building Regulations.

MODEL : AWC APG-100

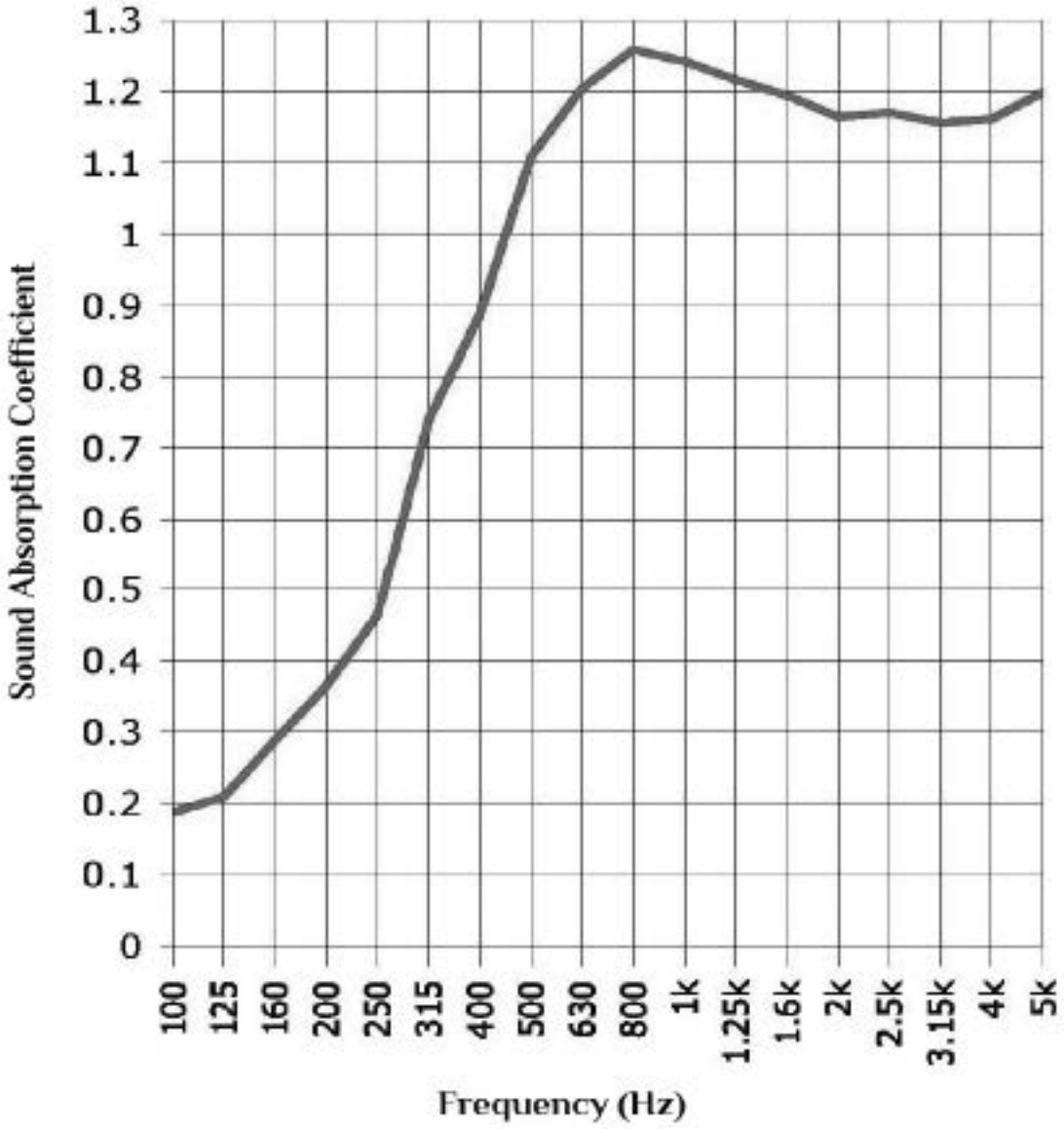
CONSTRUCTION DETAILS



System	Standard Thickness	Standard Density	Standard Widths	Standard Length	Maximum Length
Acoustical Baffle Systems	1", 2", 3", 4", 6", 8" & 10	32 - 68 Kg/M³	18", 24", 36" & 48"	2' & 4'	7.5'
Acoustical Wall Panel System	1", 2", 3" & 4"	32 - 68 Kg/M³	18", 24", 36" & 48"	2' & 4'	7.5'

MODEL : AWC APG-100

ENGINEERING GUIDELINES



Frequency (Hz)	125	250	500	1000	2000	4000
Absorption Coefficient	0.20	0.45	0.20	1.10	1.18	1.17

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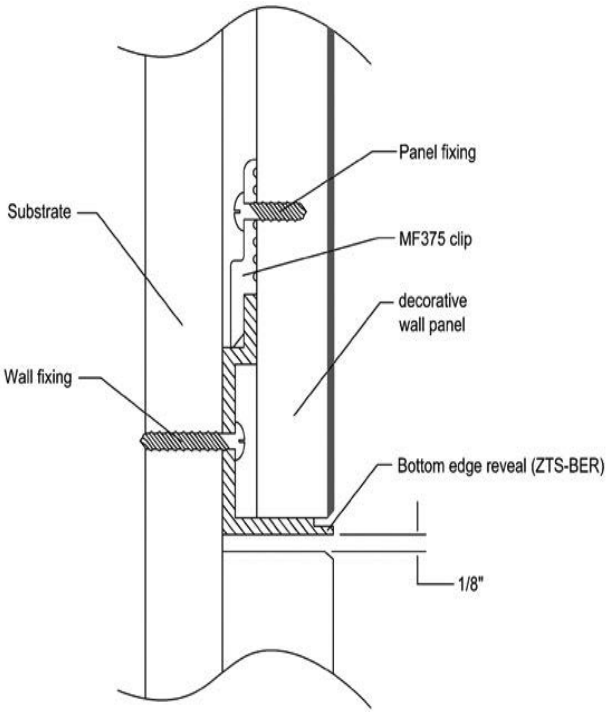
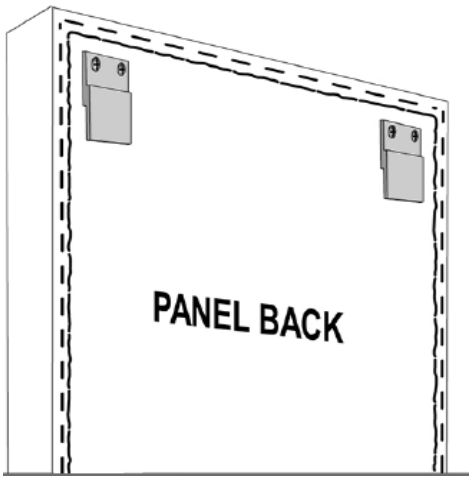
INSTALLATION DETAILS



Z - CLIP TO WALL INSTALLATION

- Attach Z-Clips to the wall following the same spacing as the clips installed onto the bak of the panel.
- Raised sides on Z-Clips going on the wall should all be facing up.
- Slide panel down on clips to attach to wall. Use bubble level to ensure proper alignment.



INSTALLATION ON CONCRETE OR BLOCK WORKS

Directly power drive specialized concrete screws into the wall, or drill holes and use standard concrete screws and plastic expanders.

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Management System
ISO 9001:2008
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