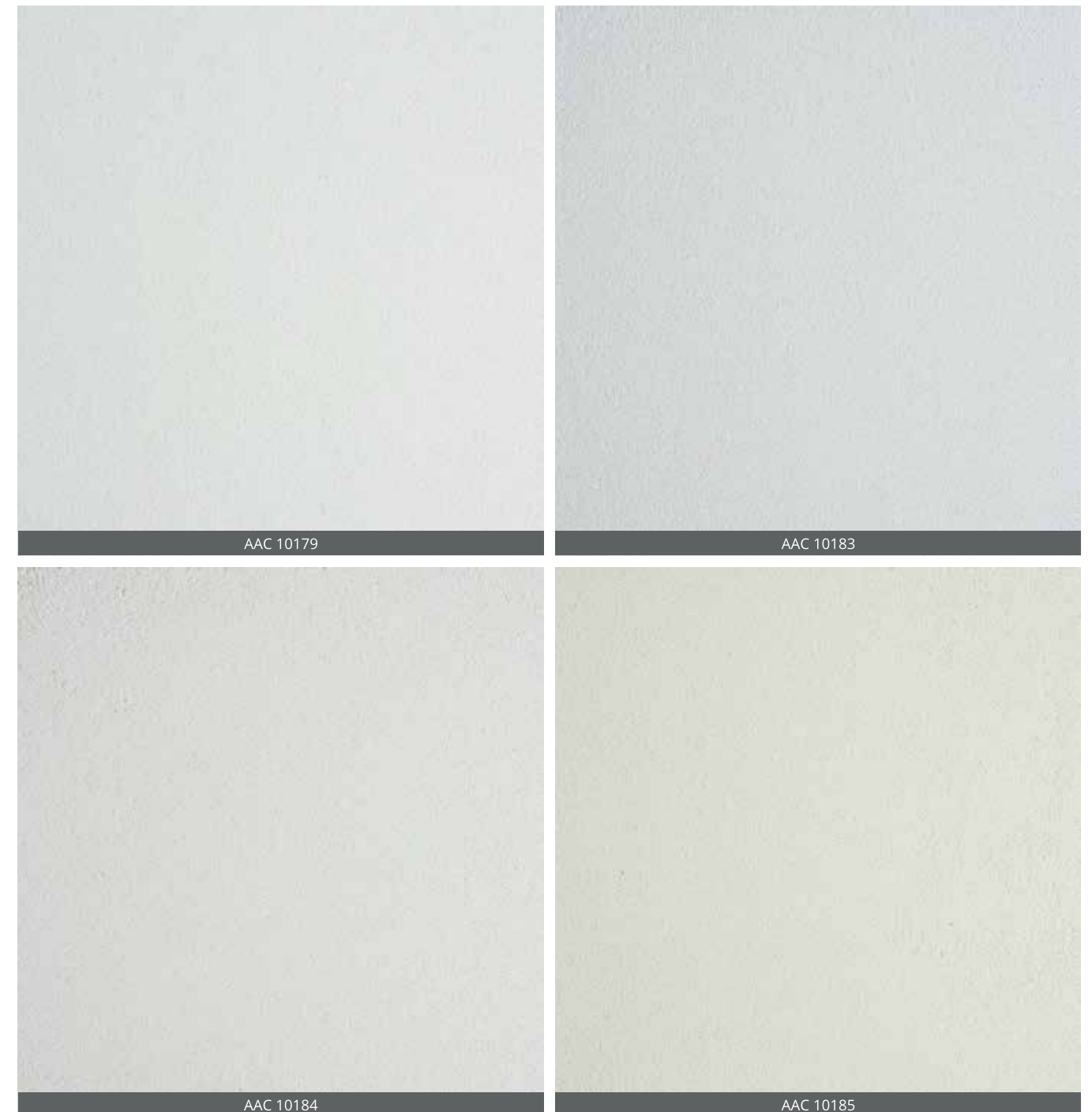


Our primary instinct is to judge interior architecture purely in visual terms, but equally important to how we perceive a space is the aural landscape. Effective acoustic management will make a space feel calmer and more relaxing.

The Armourcoat Acoustic® Plaster System is designed to optimize the acoustics of interior spaces. From large concert halls to restaurants, hotel receptions, offices and private residences the specification of hard sound reflective surfaces such as glass and stone can lead to unpleasant noise levels and reverberation. The correct control of sound and reverberation creates a more pleasant and calm environment. The Armourcoat Acoustic® Plaster System offers a clean flat and smooth mineral surface that can be applied seamlessly over large expanses to both flat and curved surfaces.

Acoustic Colour Palette



Colours illustrated are for guidance only. Due to print limitations the exact colours and shades may vary from those shown. Please request a sample for accurate representation.

סניף צפון: דרך בר יהודה 147, נשר | טלפון: 04-8214848 | פקס: 04-8210470  
סניף מרכז: הכישר 4, חולון | טלפון: 03-5560220 | פקס: 03-5502351  
סניף דרום: העבודה 3, אשדוד | טלפון: 08-8523294 | פקס: 08-8523296

## Armourcoat Acoustic® - Creating a Calm and Inviting Environment

The Armourcoat Acoustic® Plaster System comprises of a special mineral wool composite panel that is bonded onto the substrate and finished with a seamless layer of the Armourcoat Acoustic plaster.

Armourcoat have created an elegant marble based plaster finish that appears smooth and even but still allows sound energy to pass through the surface. This enables sound to be absorbed and attenuated in the layer of mineral wool beneath.

The Armourcoat Acoustic® Plaster System can be pigmented to a range of standard and custom colours.

- Natural mineral system
- Mineral wool panels with 75% recycled content \*
- Basecoat made from expanded glass with 85% recycled content\*
- Acoustic topcoat plaster made from 70% recycled marble \*\*
- Contains no VOCs
- Factory prepared base panels ready for immediate installation
- Seamless finish with exceptional acoustic performance
- Resistant to bacteria, mould and mildew
- Noise Reduction Coefficient (NRC) rating Class A-C
- Fire rating Class 0 BS 476 part 6&7
- Up to 200m<sup>2</sup> in a continuous surface without joints
- 4 standard colours available. Other colours on request

\* post-consumer \*\* pre-consumer



## LEED® Green Building Rating System

The Armourcoat Acoustic® Plaster System qualifies for points under the LEED® Green Building Rating System. LEED® is a set of performance standards based on existing and proven technology to evaluate environmental performance from a whole building perspective over a building's lifecycle. They provide a definitive standard for what constitutes a green building in design, construction and operation.

LEED® guidelines vary from one program to another. Categories may change. Therefore it is always recommended that you consult with the GBCI (Green Building Certification Institute) prior to making final selections.

EA Credit 1 - Optimize Energy Performance: The high density mineral wool panels provide additional thermal insulation which reduces energy use for optimized energy performance.

MR Credit 4 - Recycled Content: The system consists of up to 80% recycled content including post-consumer and pre-consumer recycled material.

IEQ Credit 4 - Low Emitting Materials: The system has no harmful Volatile Organic Compounds (VOCs).

IEQ Credit 7.1 - Thermal Comfort, Design: The high density mineral wool supporting panels provide an excellent source of thermal insulation which reduces energy use for greater thermal comfort.

EQ Credit 9 - Enhanced Acoustical Performance: The Armourcoat System will absorb sound energy decreasing echoes and reverberation times thus increasing sound quality.

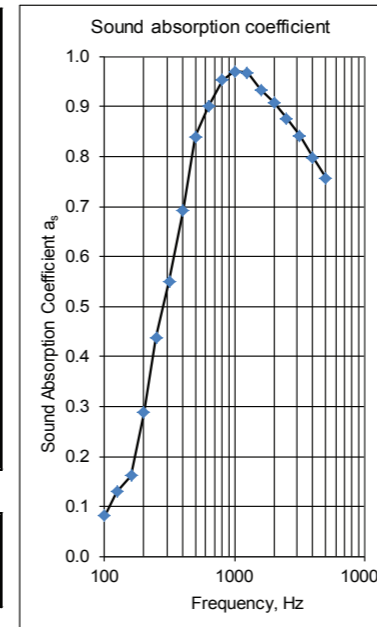
## Exceptional Acoustic Performance

The Armourcoat Acoustic® Plaster System has been tested by the University of Southampton (ISVR Consulting) following BS EN ISO 354:2003 'Airborne sound absorption measured in a reverberation chamber'. Test guidelines for type A mounting.

The graphs below illustrate the sound absorption coefficients and NRC ratings for Armourcoat Acoustic® plaster system thickness. NRC ratings range from 0.8, class C (30mm system) to 0.9, class A (50mm system).

Frequency Hz	Absorption a <sub>s</sub>
100	0.08
125	0.13
160	0.16
200	0.29
250	0.44
315	0.55
400	0.69
500	0.84
630	0.90
800	0.95
1000	0.97
1250	0.97
1600	0.93
2000	0.91
2500	0.88
3150	0.84
4000	0.80
5000	0.76

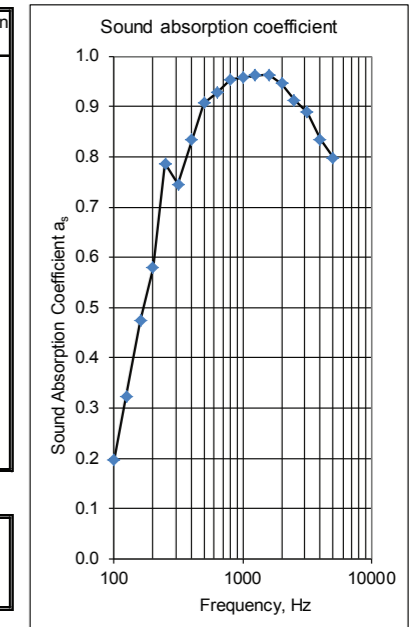
BS EN ISO 11654  
Sound absorption  
class = C  
a<sub>w</sub> = 0.75



30mm system

Frequency Hz	Absorption a <sub>s</sub>
100	0.20
125	0.32
160	0.47
200	0.58
250	0.79
315	0.75
400	0.83
500	0.91
630	0.93
800	0.95
1000	0.96
1250	0.96
1600	0.96
2000	0.95
2500	0.91
3150	0.89
4000	0.83
5000	0.80

BS EN ISO 11654  
Sound absorption  
class = A  
a<sub>w</sub> = 0.95



50mm system

