

TECHNICAL DATA SHEET

Manufacturer	: Artstone Panel Sistemleri A.Ş.
Brand	: Arcqitone®
Serie	: MINERAL-BASED
Model Name	: GROOVE - https://arcqitone.com/mineral-based/groove/
Panel Dimensions	: 265cm x 100cm (+/- %1)
Thickness	: ~3-9 mm
Weight	: m ² / ~5-6 kg
Installation Method	: Adhesive Application
Application Areas	: Interior and Exterior Wall and Ceiling Cladding Applications

PRODUCT OVERVIEW

Material Composition:

The panels are constructed from a polymer base that incorporates 40% recyclable special mineral-based powder materials, enhancing sustainability and strength.

Surface and Finish:

Advanced coloring techniques applied to these panels create high-strength surfaces characterized by non-standard, scattered depressions of varying diameters, perfectly emulating the appearance and texture of concrete with ordered concave forms. The panels are lightweight and available in large formats, making them versatile for various applications.

Aesthetic Features:

The texture and appearance of these panels offer an worn concrete feel, complete with ordered naturalconcave surface features closely resembling genuine concrete effects.

Subframe Compatibility:

These panels are designed for application over flat and clean surfaces, providing excellent support and structural integrity.

Surface Application:

The panels are suitable for direct application to a range of pre-prepared flat and clean surfaces compatible with PU 2K adhesive materials. This includes, but is not limited to:

- Chipboard varieties (MDF, OSB, particle board)
- Water-resistant plywood
- Fiber cement boards
- Betopan boards
- Aqua panel boards
- Gypsum boards

Technical Specifications

Fire Resistance: Classified as "B" according to Euroclass TS EN 13501-1 standards, indicating the panel's reaction to fire and performance in terms of fire safety. When installed using the correct method, the product does not exhibit deformation or texture deterioration within the temperature range of -20°C to +50°C.

UV Protection: The panels are protected against ultraviolet rays and are unaffected by harmful radiation.

Durability: Despite being thin, the panels are resistant to impacts and possess impact-absorbing properties.

Water and Moisture Resistance: The panels are unaffected by water and moisture, ensuring long-lasting durability in various environments.

APPLICATION

Adhesive Installation: Utilizes a PU 2K adhesive for secure attachment. The adhesive should be applied with a 3mm metal trowel. For optimal results, a primer may be applied to the surface prior to adhesive use, especially if the surface requires additional preparation. Easy panel resizing can be achieved using standard woodworking tools.

User-Friendly Installation: Designed for ease of use, these panels can be installed effectively without the need for advanced professional skills, making them ideal for a range of projects.

Lightweight Design: The lightweight construction allows for easy integration into portable stands and furniture, enhancing their versatility.

Surface Compatibility: Easily applied to surfaces with limited load-bearing capacity due to their lightweight nature, expanding their use to a variety of substrates.

Installation Guidelines:

1. Prepare the surface by cleaning it thoroughly. If needed, apply a suitable primer.
2. Apply PU 2K adhesive to the surface using a 3mm metal trowel.
3. Carefully affix the panels to the adhesive-coated surface.
4. If resizing is needed, employ standard woodworking tools for precision cutting.

ASSEMBLY



1. Prepare the materials to be used in the assembly.



2. Mix the hardener and polyurethane adhesive thoroughly at a ratio of 10/1.



3. The panel is cut to the desired dimensions.



4. The prepared mixture is distributed evenly behind the panel with the help of a 3 mm metal comb.



5. The panel is mounted on the wall, and the assembly process is completed with the help of a plastic hammer and sponge trowel to ensure it is firmly fixed.



Assembly Stage Video: <https://www.youtube.com/watch?v=DLUe8LC9s3Y>

ARTSTONE PANEL SİSTEMLERİ A.Ş.

Barbaros Bulvarı No: 24/B Balmumcu - Beşiktaş/İstanbul/Türkiye

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PRODUCT TEST REPORT SUMMARY

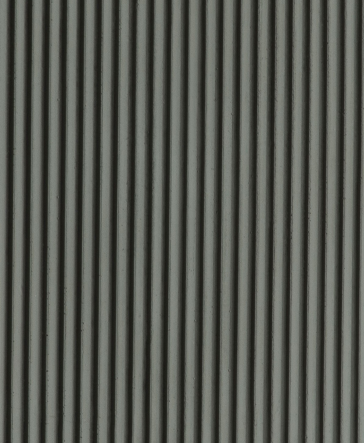
Panel Size	265cm x 100cm (+/- %1)
Panel Thickness	~ 3-9 mm
Panel Weight	~ 5-6 kg/m ²
Fire Class	"Euroclass TS EN 13501-1 AB" standards indicate Class "B"
Density	"TS EN ISO 1183-1" standards indicate "1.75 g/cm ³ "
Water Absorption	"TS EN ISO 62" standards indicate 1.4%
Water Permeability	No signs of water dripping on the underside. Impermeable.
Barcol Hardness	According to "TS EN 59" standards, "95"
Impact Resistance - Ball Method	According to "DIN ISO 4586 T12" standards, "No cracks formed"
Impact Resistance - Charpy Method	Impact face front surface; according to "TS EN ISO 179-1" standards, "17.2 kJ/m ² "
Sound Insulation	According to "TS EN ISO 140-3" standards, "39 dB"
Freeze-Thaw Effect	Ratio of breaking module R_L=0,97

ARTSTONE PANEL SİSTEMLERİ A.Ş.

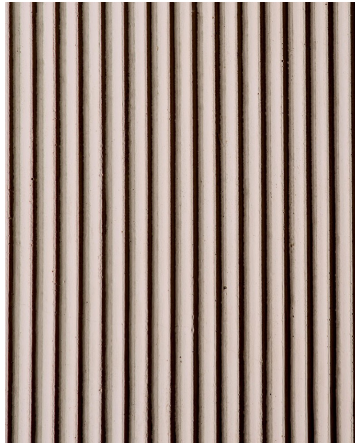
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PANEL COLOURS & SECTION IMAGES



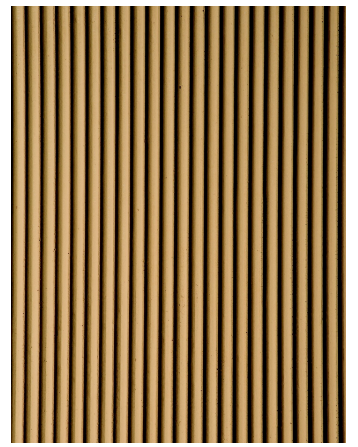
GROOVE APRON | MB205



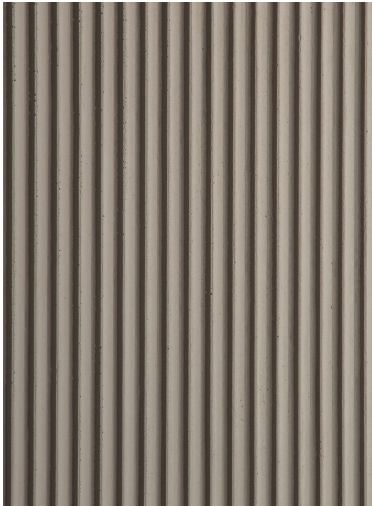
GROOVE CHAI | MB213



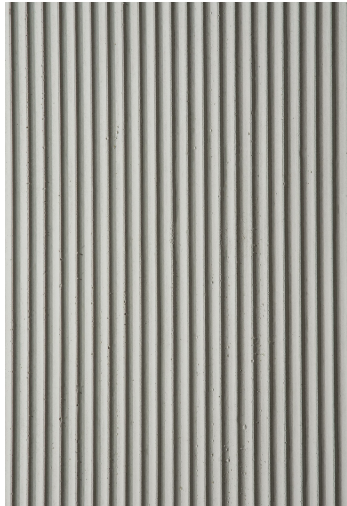
GROOVE CRUDO | MB200



GROOVE CLAY | MB212



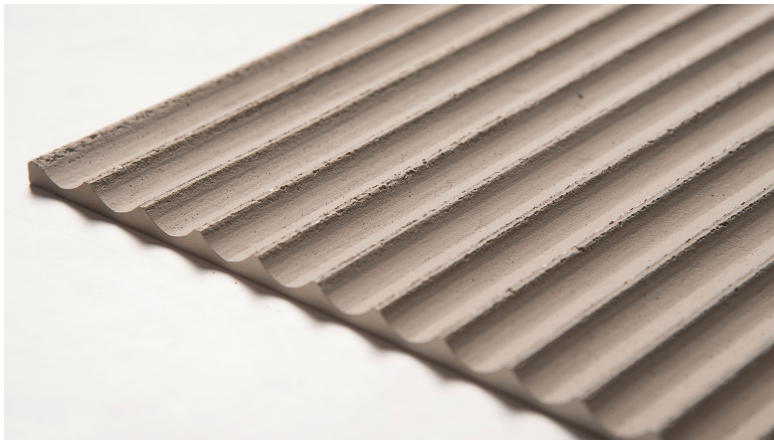
GROOVE GREY | MB201



GROOVE MINT | MB225



GROOVE WILLOW | MB228



GROOVE SECTION

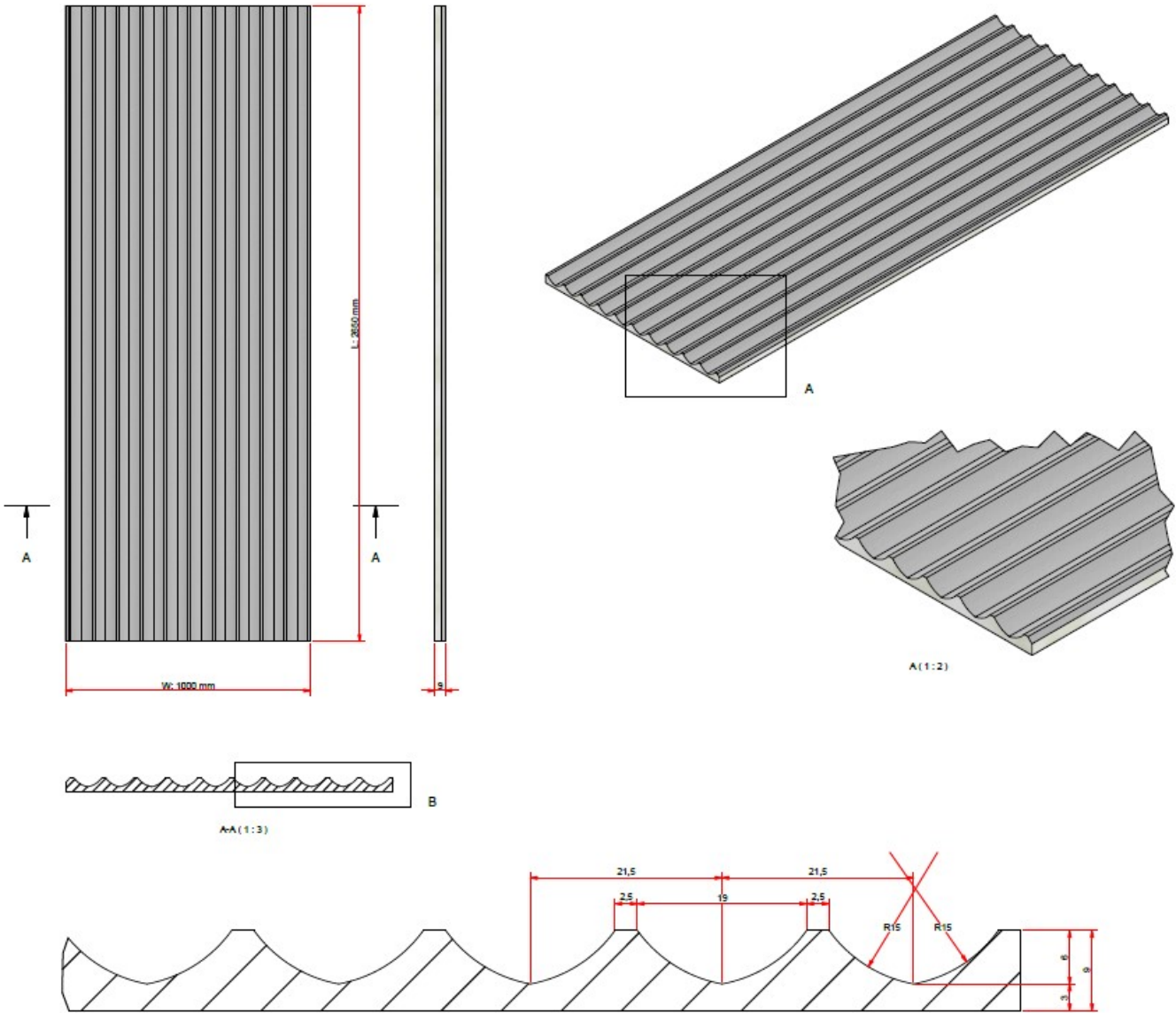
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PANEL TECHNICAL DRAWINGS



ARTSTONE PANEL SİSTEMLERİ A.Ş.

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