



THE
ACOUSTICS
COMPANY



Dome



Designed to integrate seamlessly within architectural environments, delivering high-performance acoustic control with clarity in specification.



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p.2



Technical

Dome™

Material Datasheet

Product Type	Basotect® Melamine Foam/Fabric			
Composition	Fabric-faced Basotect® melamine foam dome profile with 12mm PET backing			
Density ¹	11.4 kg/m³			
Thickness ¹	25 mm (0.98")	50 mm (1.96")	75 mm (2.95")	100 mm (2.76")
Acoustic ³	$\alpha_w = 0.65$ NRC = 0.65 Class D/C	$\alpha_w = 0.80-0.95$ NRC = 0.90-0.95 Class B/A	$\alpha_w = 0.95$ NRC = 0.95 Class A	$\alpha_w = 1.00$ NRC = 1.00 Class A
Finishes	Cara, Lucia, Replay, Bondi, King Flex, King L, Radio, and Rustico			

Fire Rating

Basotect® G+ melamine foam has been independently tested in accordance with EN 13501-1 and achieves the following reaction-to-fire classifications depending on thickness:

5-15mm: B-s1,d0
16-80mm: C-s2,d0
80mm: C-s3,d0

Selected Basotect® G+ thicknesses are also available with BS476 Class 0 certification.

Finishes: Available fabric finishes include Cara, Lucia, Replay, Bondi, King Flex, King L, Radio, and Rustico.

As standard, fabrics supplied meet a minimum Class B fire rating, with alternative fire-rated fabrics available on request to suit specific project or regulatory requirements.

Composite System – Important Information:

The complete composite system (foam + fabric + backing) is not fire tested as standard, and no declared EN 13501-1 classification is claimed for the assembled product.

A hotmelt or spray adhesive is used to laminate the fabric finish to the foam core.



The reaction-to-fire performance of the final composite panel may vary depending on:

- Fabric type and weight
- Adhesive application
- Installation method
- Affixed substrate and air gap
- Composite construction details

Internal composite testing of selected configurations, including Cara fabric with PET backing and Basotect® core, has achieved Class D reaction-to-fire performance.

VOC Emissions

El Classification:

Formaldehyde Emissions: ≤ 0.1 mg/L – compliant with El emission classification for low formaldehyde release.

TVOC: < 0.01 mg/m³

Benzene: Not Detected

Toluene: 0.02 mg/m³

Xylene: Not Detected

VOC Emissions: Class A (ISO 16000)

Durability ³

Lightweight structure
Long-term acoustic performance stability
Resistant to ageing and material degradation
Does not rot or support mould growth
Thermoset composition – will not melt or drip under heat exposure
Suitable for dry internal environments

Tolerance ²

Thickness: ± 3 mm
Length/Width: ± 5 mm

Sustainability ³

Manufactured using 100% green electricity.
Renewable raw materials allocated via certified biomass balance approach.
Product Carbon Footprint (PCF) reduced by up to 50% compared to standard grades

Carbon Footprint

Basotect® G+ EcoBalanced: 4.5 kg CO₂eq/kg

Basotect® B EcoBalanced: 7.5 kg CO₂eq/kg

Certified according to ISO 14067, REDcert² and ISCC PLUS mass balance standards.

1 – Based on Basotect® G+ core with 12mm PET backing. Fabric finish excluded.

2 – All measurements are nominal and subject to standard manufacturing tolerances.

3 – relates to core material

4 – core only, fabrics not considered



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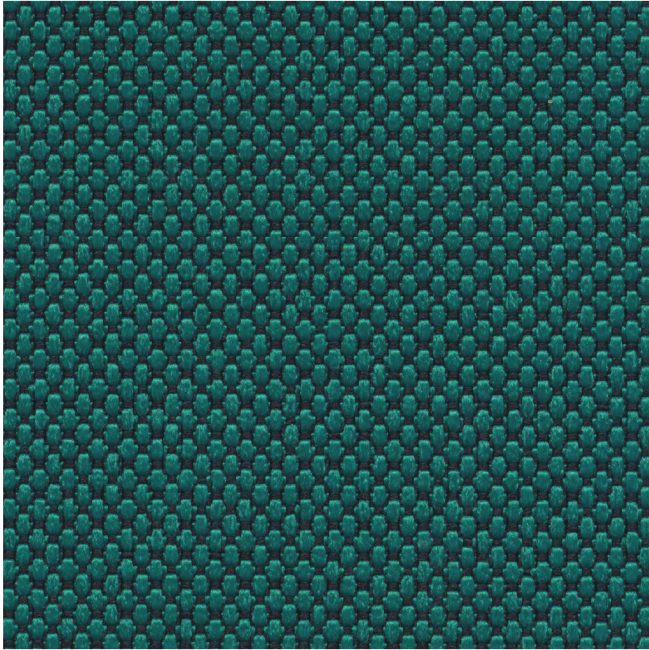
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Dome™

Finishes



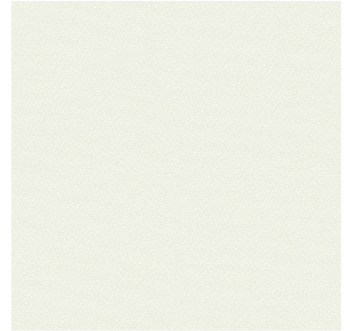
Rustico

Fabric Fire Ratings- B-S1, d0 (Cara, Lucia, Replay, Bondai, King Flex, King L, Radio, Rustico)

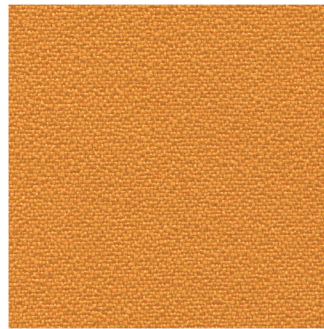
As standard, fabrics supplied meet a minimum Class B fire rating, with alternative fire-rated fabrics available on request to suit specific project or regulatory requirements. (Supplier test reports are available on request.)



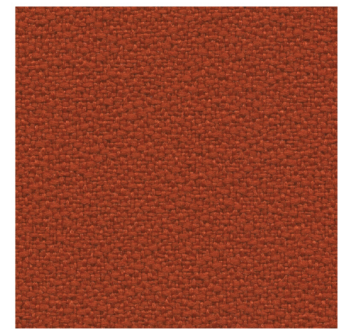
Cara



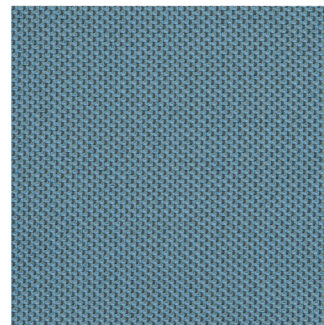
Lucia



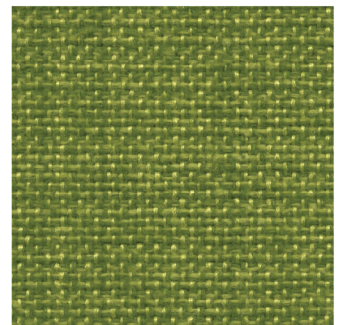
Bondai



King Flex



Replay



Radio



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Dome™

Acoustic Data

The acoustic performance of materials refers to their ability to absorb, reflect, or transmit sound waves. This concept is crucial in architecture, interior design, and engineering, as it determines how sound behaves in a space. Materials with good acoustic performance can reduce noise levels, improve speech intelligibility, and create more comfortable and functional environments by controlling reverberation and sound transmission.

TESTING STANDARDS

(all values extracted from certified test results.)

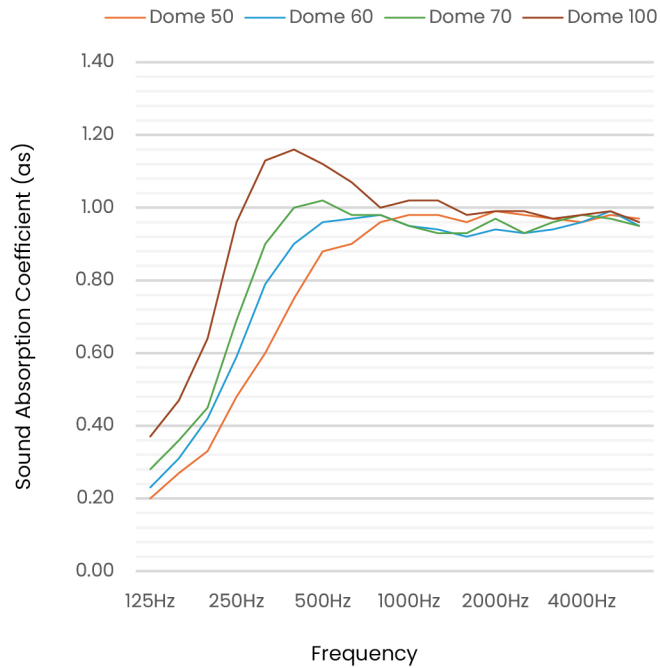
ISO 354	Measurement of sound absorption in a reverberation room
ISO 11654	Sound absorbers for use in buildings – Rating of Sound Absorption
ASTM C423-17	Standard Test Method for sound absorption and sound absorption coefficients by the reverberation room method
ACOUSTICS:	Sound absorbers for use in buildings – Rating of sound absorption

ACOUSTICALLY TESTED DOME	aw	NRC	CLASS
DOME 50	0.90	0.85	A
DOME 60	0.95	0.90	A
DOME 70	1.00	0.95	A
DOME 100	1.00	1.00	A

For aw, it is strongly recommended to use this single-number rating in combination with the complete sound absorption.

FREQUENCY (Hz)	125	250	500	1000	2000	4000
DOME 50	0.25	0.60	0.90	0.95	1.00	0.95
DOME 60	0.30	0.75	0.95	0.95	0.95	0.95
DOME 70	0.35	0.85	1.00	0.95	0.95	1.00
DOME 100	0.50	1.00	1.00	1.00	1.00	1.00





Weighted Sound Absorption Coefficient (a_w) - Measured in accordance with ISO 11654. Practical sound absorption coefficient a_p values at given standard frequencies are compared with reference curve a_w .

Noise Reduction Coefficient (NRC) - The mean average as value at frequencies 250, 500, 1000 and 2000 Hz.

Absorption Class - Levels of comparison of absorption values against a reference curve with A as highest and E as lowest. Measured in accordance with ISO 11654.

Practical Sound Absorption Coefficient (a_p) - The average of the three as values centered on the 1/3 octave band center frequency, measured in accordance with EN ISO 354.

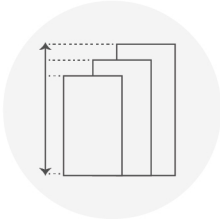
Note: The sound absorption values provided in this product sheet are subject to change without prior notice from The Acoustics Company. For the most current and accurate technical specifications, please contact our Sales Team directly.



*Developed to simplify acoustic design and specification, ensuring clarity,
coordination, and confidence throughout the project.*

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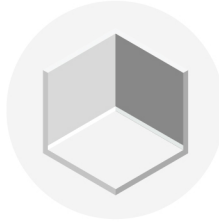
Path to Specification



3. SIZE AND LAYOUT

Review available sizes, layouts and configuration options.

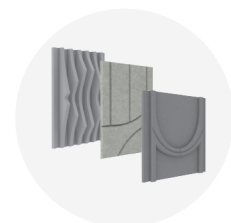
pages 11-13



2. SPACE

Understand where the product is used and the key spatial constraints.

pages 14-17



3. DESIGN

Explore design options to achieve the desired aesthetic.

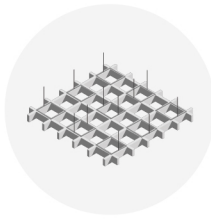
pages 18-19



4. DETAIL

Consider how the system integrates with building elements and site.

pages 20-21



6. INSTALLATION

Define the appropriate fixing and installation method.

pages 22-30



8. AFTERCARE

Understand cleaning, care and long-term maintenance.

pages 31-33



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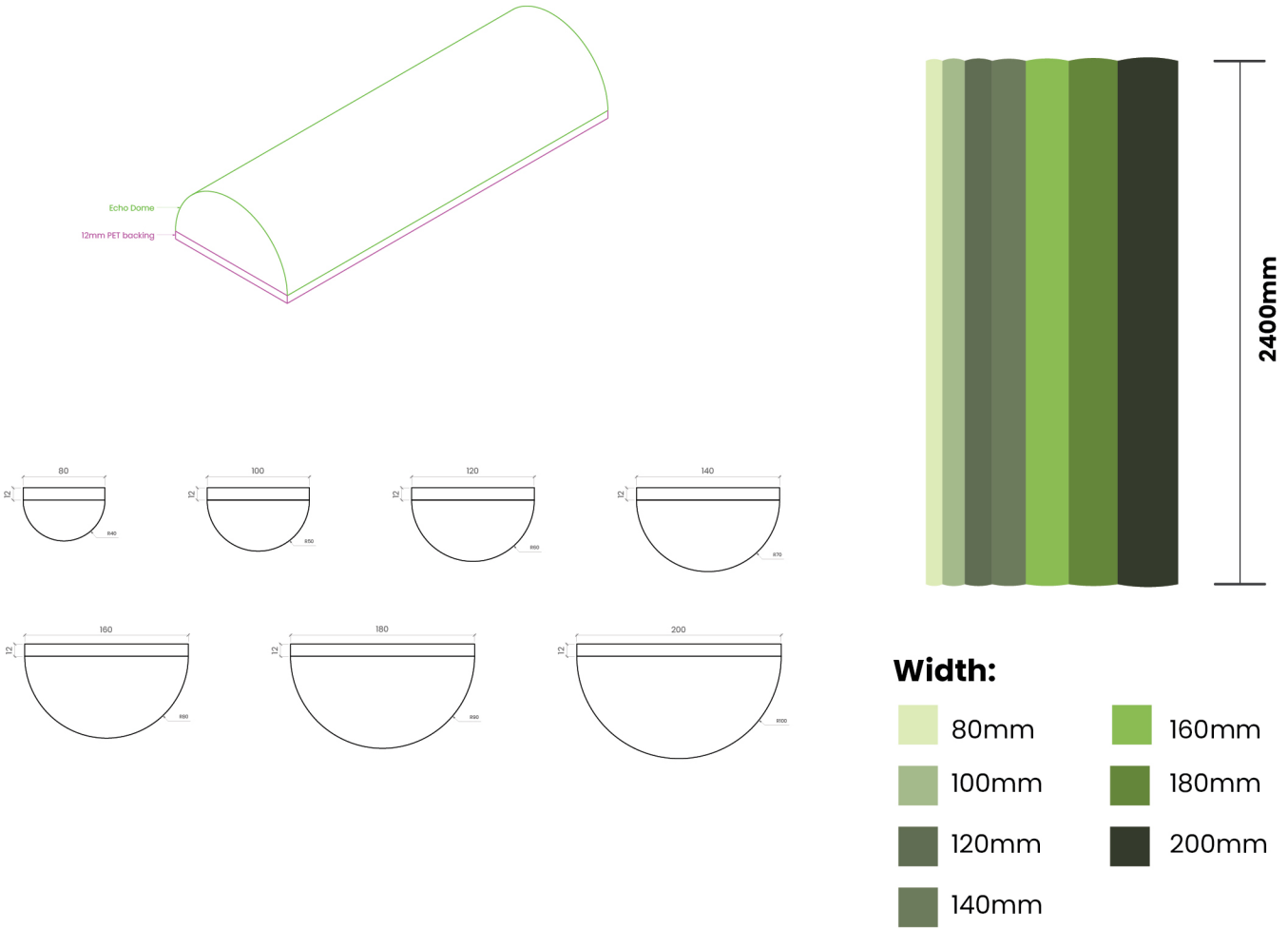
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Size & Layout

Size and Layout



Dimension Table							
	Dome 80	Dome 100	Dome 120	Dome 140	Dome 160	Dome 180	Dome 200
Diameter	80mm	100mm	120mm	140mm	160mm	180mm	200mm
Radius	40mm	50mm	60mm	70mm	80mm	90mm	100mm
Length	2400mm						



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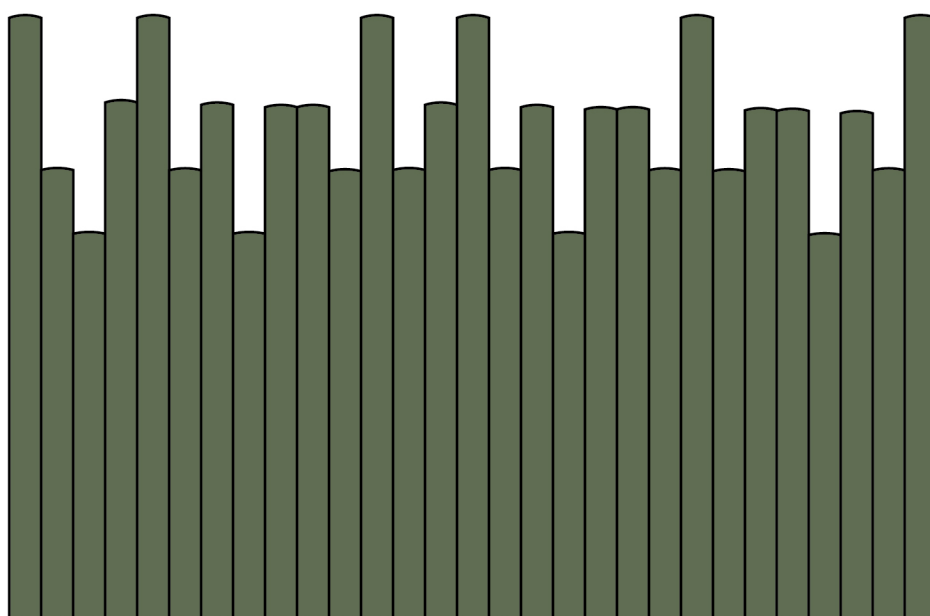
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Dome™ may be assembled into a range of layout configurations to suit project requirements.

Sample layout 1



Sample layout 2



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Space

Space



BREAKOUT / INFORMAL AREAS

Breakout and informal areas are often characterised by hard finishes, open layouts, and high levels of social interaction, all of which can contribute to elevated noise levels. Dome can be applied to feature walls surrounding seating areas, collaboration zones, and social spaces to reduce reverberation while introducing warmth, texture, and visual interest. Consider using contrasting fabric colours and varying dome depths to create focal points that help define individual areas within larger open-plan environments. Creates comfortable, acoustically balanced environments that encourage collaboration and informal interaction.



ZONING WITHIN LARGE SPACES

Large open-plan environments often require subtle methods of defining different functions without introducing physical barriers. Dome can be used on feature walls to visually separate work settings, collaboration areas, breakout zones, and circulation routes while simultaneously improving acoustic comfort. Using different fabric colours, patterns, or layouts can strengthen wayfinding and create a clear identity for individual zones without disrupting openness or flexibility. Provides visual structure, acoustic control, and spatial definition without compromising openness.





AV WALL INTEGRATION

Presentation spaces and AV walls often contain large reflective surfaces that can negatively impact speech intelligibility. Dome can be installed around screens, presentation systems, and digital displays to absorb reflected sound while creating a clean and coordinated architectural backdrop. Care should be taken to coordinate panel layouts with screens, power outlets, control panels, and integrated technology to achieve a balanced and fully considered design. Improves presentation environments by combining acoustic performance with seamless technology integration.



MEETING ROOM FEATURE WALL

Meeting rooms require controlled acoustic conditions to support concentration, collaboration, and effective communication. Dome can be applied to one or more walls to reduce reverberation and improve speech clarity while introducing a distinctive architectural feature. Panel thickness, colour selection, and layout configuration can be adjusted to balance acoustic performance with the desired aesthetic outcome, creating spaces that are both functional and visually engaging. Enhances speech intelligibility and contributes to more productive meeting environments.



ACOUSTIC BOOTH / POD ROOM LINING

Acoustic booths and focus pods are designed to provide privacy within open environments and therefore require high levels of sound absorption. Dome can be applied internally to walls and enclosure surfaces to reduce reflected sound and create a quieter, more comfortable user experience. Consider coordinating panel layouts across multiple surfaces to maximise acoustic performance while maintaining a cohesive interior appearance. Supports focused work, private conversations, and improved user comfort within enclosed spaces.



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RECEPTION FEATURE WALL

Reception areas establish the first impression of an organisation and often experience a combination of conversation, circulation, and waiting activity. Dome can be used to create a statement feature wall that enhances the visual identity of a space while helping to manage noise levels. The ability to alternate colours, depths, and layouts allows designers to create bespoke installations that reinforce branding, introduce texture, and elevate the overall visitor experience. Creates a memorable first impression while contributing to a more comfortable acoustic environment.



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Design

Design Recommendations

Designed specifically for wall-mounted acoustic applications within interior environments.

- 1 Allow for shadow gaps**
When terminating Dome™ against glazing, joinery, bulkheads, wall recesses, or other fixed elements, allow a minimum 25mm shadow gap to accommodate manufacturing and installation tolerances.
- 2 Do not size to exact openings**
Where Dome™ is installed within wall recesses, bulkheads, or framed openings, avoid specifying exact finished dimensions. Allow suitable clearance to ensure installation can be achieved without site modification.
- 3 Coordinate wall services**
Ensure sockets, switches, data outlets, thermostats, and other wall-mounted services are coordinated with the Dome™ layout before manufacture.
- 4 Consider profile terminations**
Determine early whether profile ends will remain visible or terminate into adjacent architectural elements, as this will influence end detail selection.
- 5 Allow for manufacturing tolerances**
Dome™ is a manufactured acoustic product and should not be expected to align perfectly with adjacent construction elements, particularly over long runs or feature walls.





Detail

Detail Considerations

Each Dome module is individually manufactured, allowing multiple fabric finishes, colours, or layouts to be combined across a single wall installation.

End options

1

Dome™ is available with capped or open-ended terminations depending on visibility and project requirements.

Profile lengths

2

Lengths exceeding 2100mm are manufactured in multiple sections due to production limitations.

Joint visibility

3

On sheer or lightweight fabrics, foam joint lines may be visible on longer profiles. Heavier fabrics such as Camira Blazer and Blazer Lite are recommended where a more seamless appearance is required.

Fabric selection

4

Non-woven fabrics generally provide the cleanest finish around capped ends. Woven fabrics may exhibit minor fraying depending on fabric construction.

Fabric direction and colour

5

Consistent fabric orientation should be maintained throughout an installation. Slight shade variation may occur between production batches.

Site cutting

6

Site cutting is not recommended. Cutting may affect finish quality, dimensional accuracy, and exposed edge appearance.

Wall condition

7

Dome™ should be installed onto a flat, suitably prepared substrate. Uneven wall surfaces may affect alignment and overall finish quality.

Manufacturing tolerances

8

Minor dimensional tolerances should be expected and considered when coordinating with adjacent finishes and bespoke details.



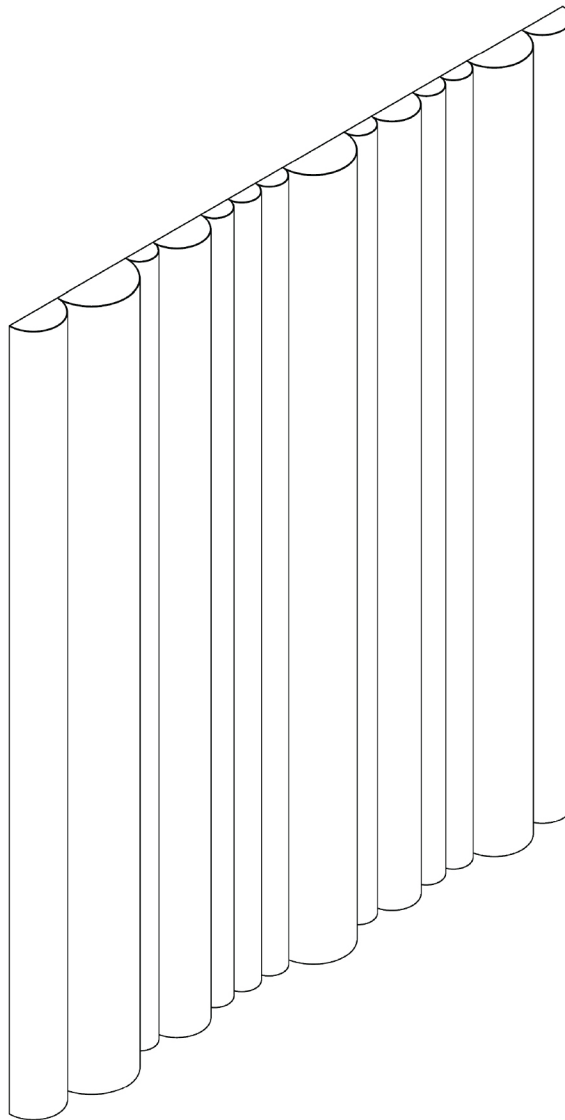
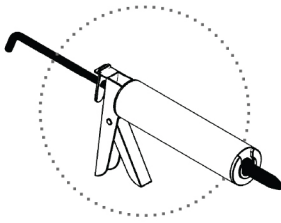


Installation

Dome Installation Guide

Installation Guide using **Soudal Fixed All (Hightack)**

Refer to the drawings for accurate installation and fabrication requirements. drawing contains the fixing standards, connection details, and dimensional layouts for Dome using Soudal Fixed All (Hightack).



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DOME 40



DOME 50



DOME 60



DOME 70



DOME 80



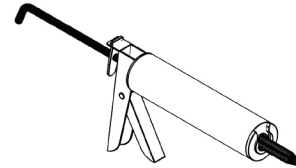
DOME 90



DOME 100



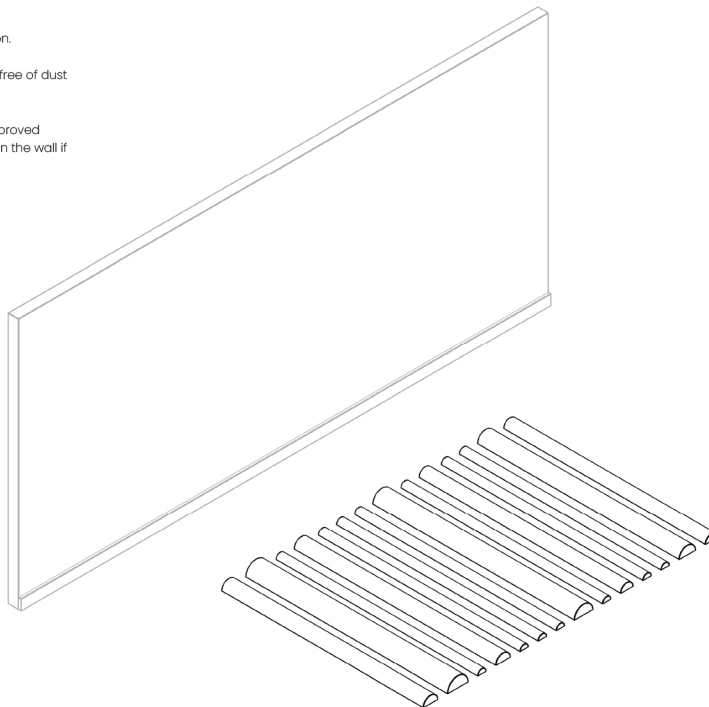
SOUDAL FIX ALL



1

Before Installing

1. Check the alignment of panels before installation.
2. Make sure the substrate is clean, dry, level, and free of dust or grease to ensure proper adhesion.
3. Confirm panel placement according to the approved layout drawing or design intent. Mark guidelines on the wall if necessary.



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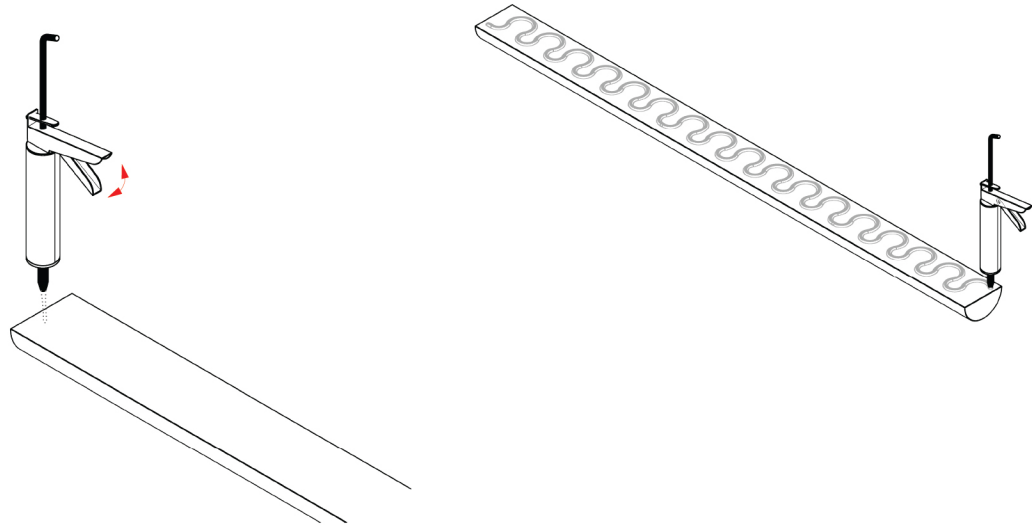
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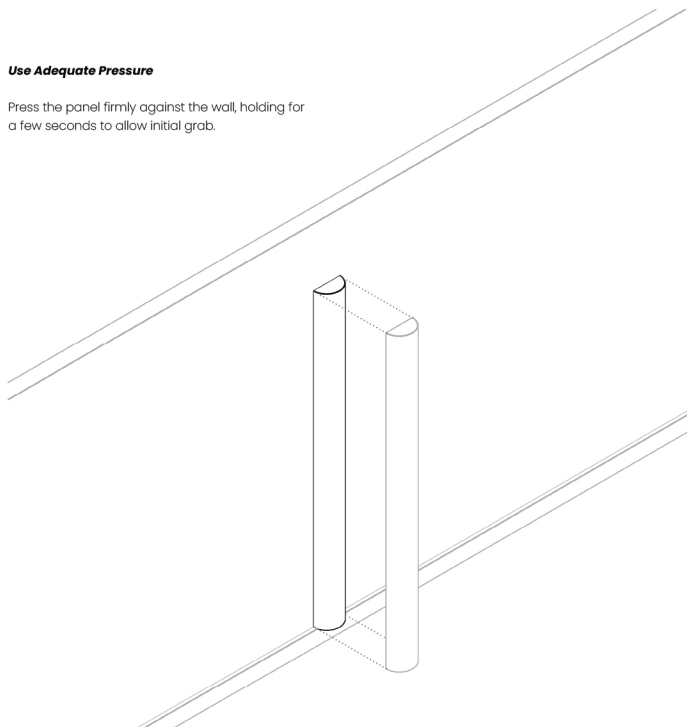
p.24

Apply Evenly

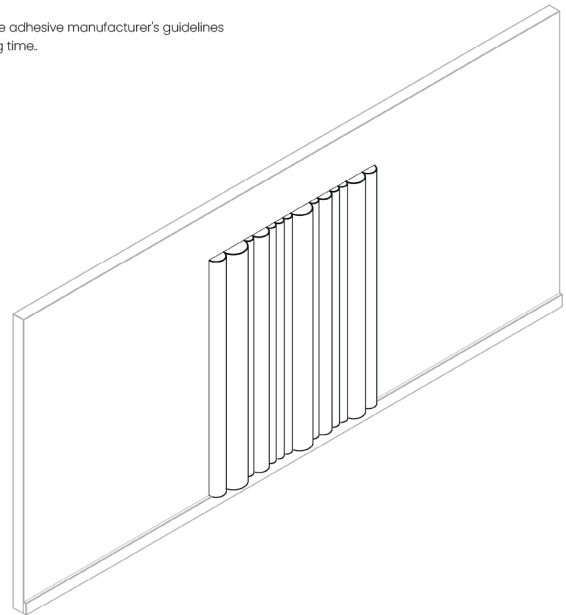
Apply Soudal Fix All adhesive in a continuous bead along all edges of the back of the panel to ensure a secure bond.

**Use Adequate Pressure**

Press the panel firmly against the wall, holding for a few seconds to allow initial grab.

**Allow to Cure**

Follow the adhesive manufacturer's guidelines for curing time.



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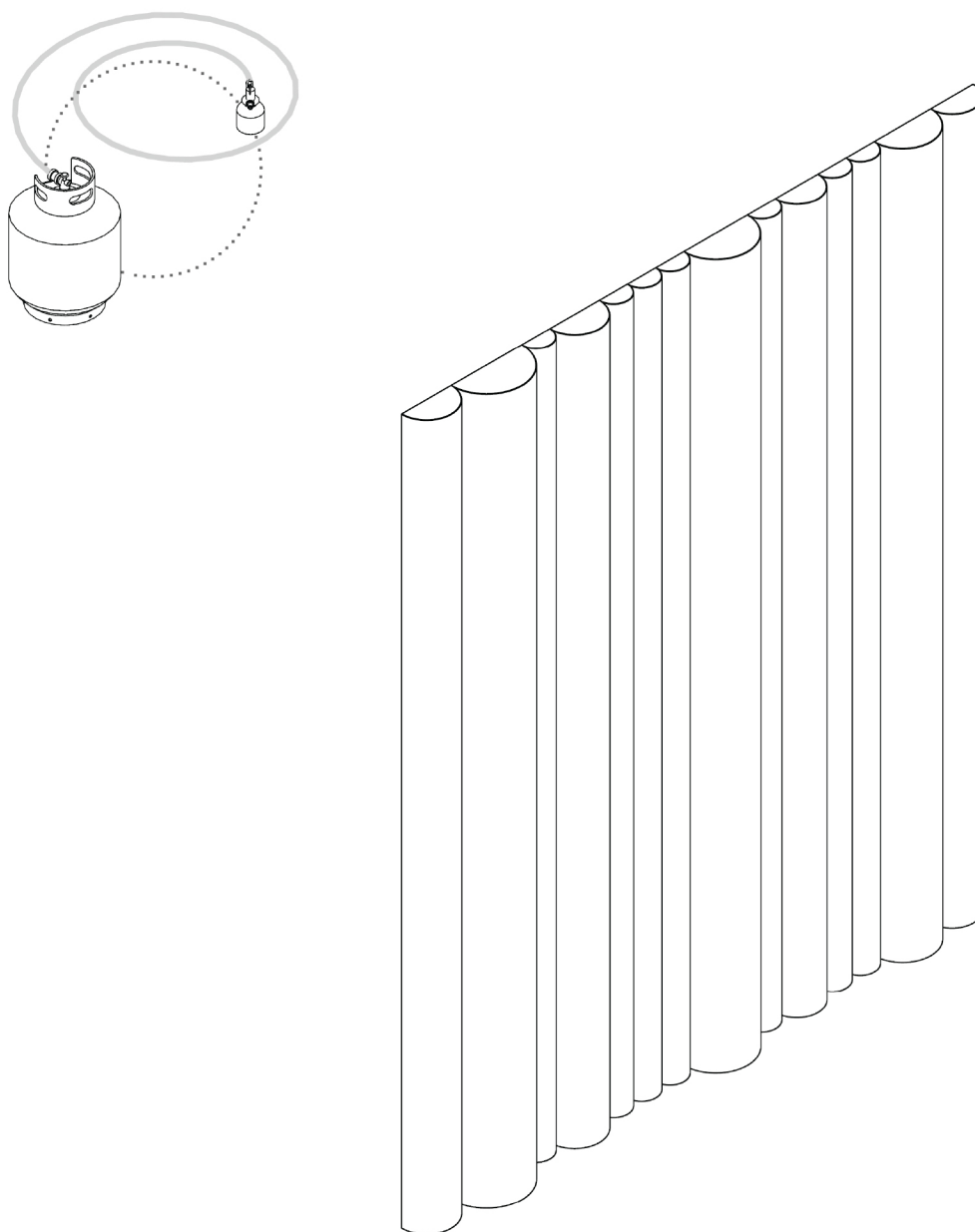
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Dome Installation Guide

Installation Guide using **Contact Adhesive**

Refer to the drawings for accurate installation and fabrication requirements. drawing contains the fixing standards, connection details, and dimensional layouts for Dome using Contact Adhesive.



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DOME 40



DOME 50



DOME 60



DOME 70



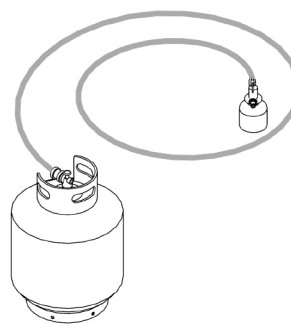
DOME 80



DOME 90



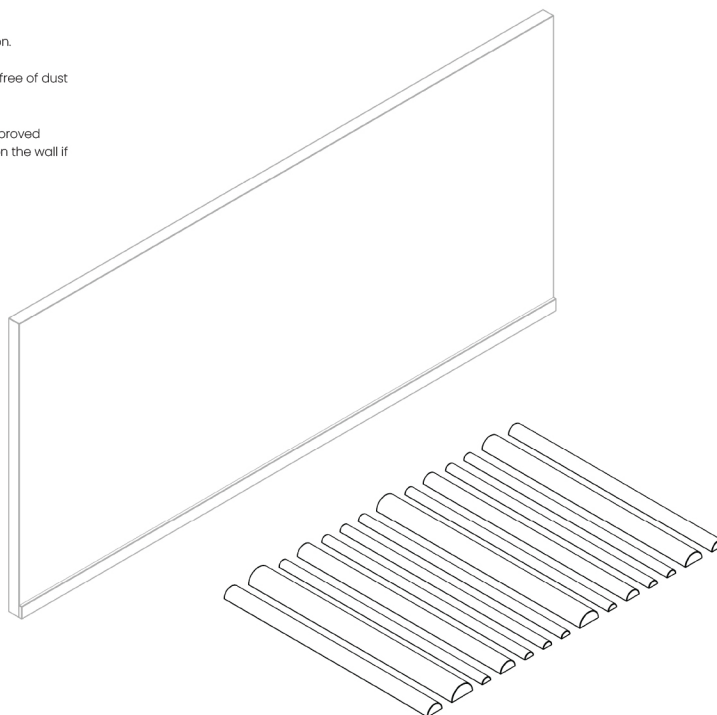
DOME 100



1

Before Installing

1. Check the alignment of panels before installation.
2. Make sure the substrate is clean, dry, level, and free of dust or grease to ensure proper adhesion.
3. Confirm panel placement according to the approved layout drawing or design intent. Mark guidelines on the wall if necessary.



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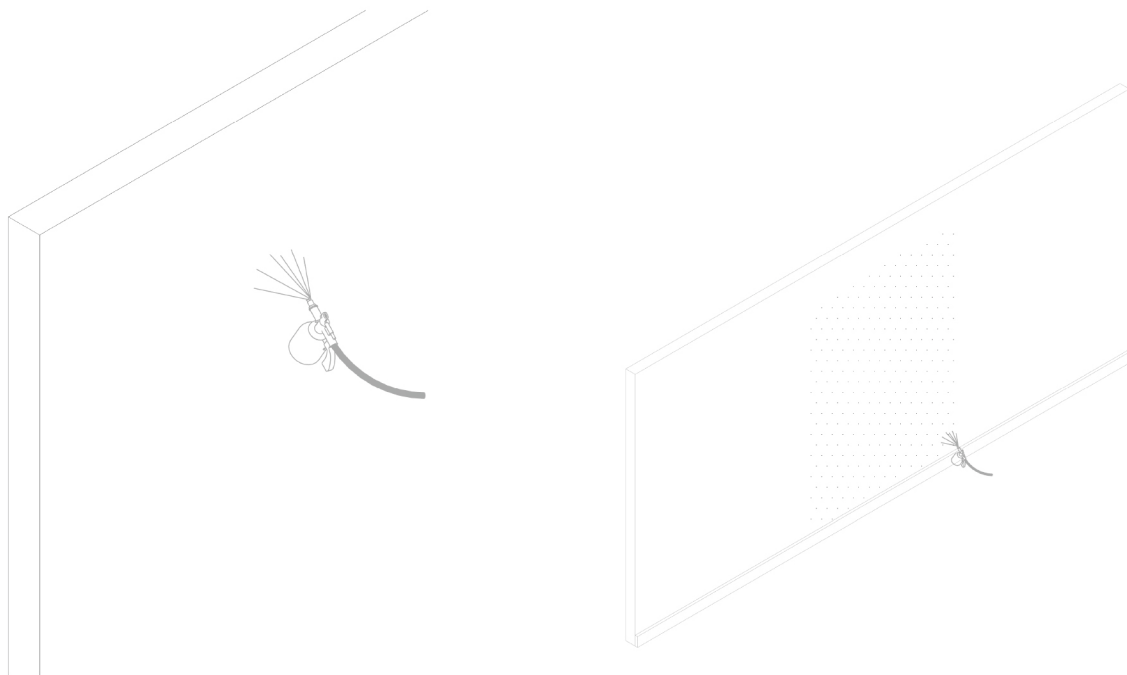
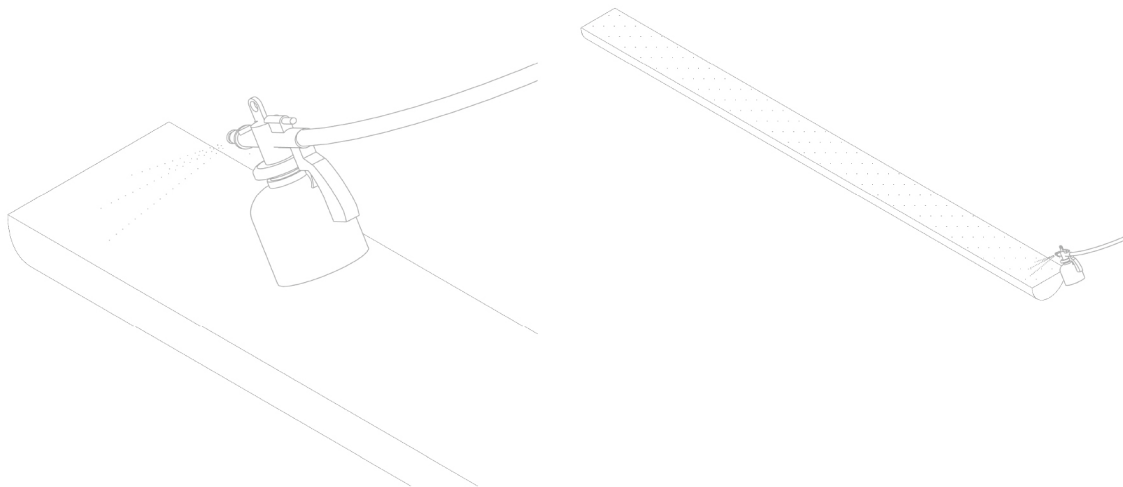
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Apply Evenly

Evenly spray contact adhesive onto the **back of the panel** and the **wall surface** where the panel will be installed.



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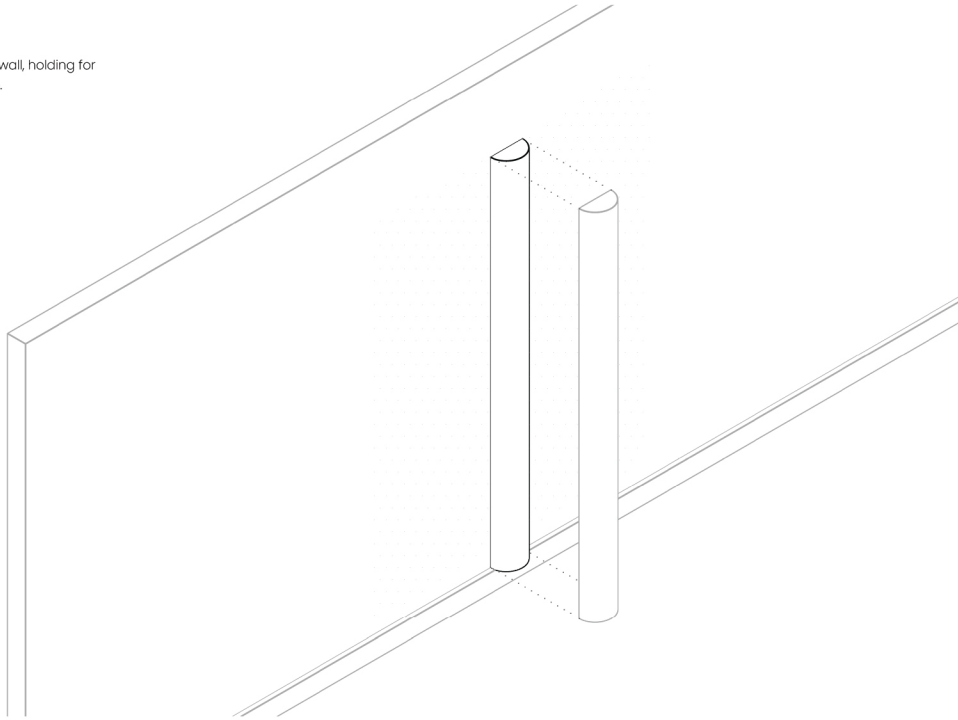
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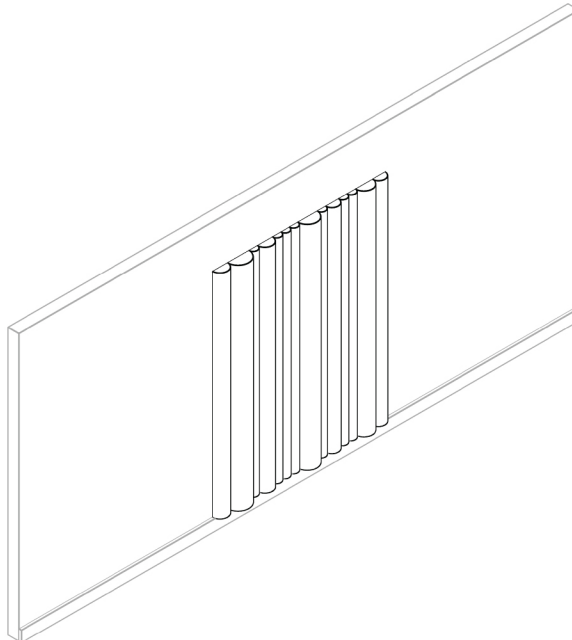
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Use Adequate Pressure

Press the panel firmly against the wall, holding for a few seconds to allow initial grab.

**Allow to Cure**

Follow the adhesive manufacturer's guidelines for curing time.



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Disclaimer: Installation Guide



GENERAL USE, LIABILITY & WARRANTY INFORMATION

INSTALLATION GUIDE DISCLAIMER

Disclaimer: General Guidance Only – Please Read Carefully

This installation guide is provided as a general reference to support the safe and effective installation of our products. It is not intended to replace professional advice or detailed project-specific assessments. While The Acoustics Company has taken care to ensure the accuracy of the information contained herein, we make no representations or warranties regarding its completeness, suitability, or applicability to every project.

NOT A ONE-SIZE-FITS-ALL SOLUTION

This guide does not account for all possible site conditions, installation environments, or structural considerations. It is the responsibility of the installer, contractor, or project manager to determine whether the guidance provided is suitable for the specific building, substrate, and intended use.

PROFESSIONAL ASSESSMENT REQUIRED

Installation should only be performed by competent, trained personnel who are familiar with the product, installation techniques, and relevant regulations. If in doubt, always seek advice from a qualified professional or consult with our technical team before proceeding.

LIABILITY & LIMITATIONS

The Acoustics Company shall not be held liable for any damage, loss, or performance issues resulting from:

- a. Improper installation
- b. Use of unapproved adhesives or fixings
- c. Modification of the product
- d. Failure to verify compatibility with local conditions and regulations

WARRANTY IMPLICATIONS

Any deviation from the recommended installation procedures may void product warranties. For full details on product warranties, terms of sale, and exclusions, refer to our official documentation.

By using this guide, you acknowledge that it provides general information only and that the final responsibility for product suitability and safe installation lies with the installer or project authority.





Aftercare

Dome™

Care and Maintenance

Caring for a Basotect® Melamine Foam or Fabric involves regular dusting with a soft cloth or vacuuming with a brush attachment to keep it clean. For stains, use a mild detergent and water, avoiding harsh chemicals. Periodically inspect the panels for any signs of wear and tear to ensure they maintain optimal acoustic performance. Proper maintenance will keep your acoustic PET panels looking functioning well for years!

CLEANING METHODS

A. Mop up excess as soon as possible with a sponge or cloth.

B. Remove surplus with a knife edge or appropriate instrument.

C. Sponge with a solution of carpet shampoo working from well outside the stain in a circular motion towards the centre (this avoids spreading the stain). Sponge afterwards with clean warm water and mop excess moisture with a clean dry cloth or sponge. Allow to dry then brush gently with a soft brush. If any stain remains, sponge with a solution of one part household bleach to six parts clear water. Thoroughly rinse after treatment.

D. Lightly sponge with household dry cleaning fluid and blot. Apply sparingly, as the substance may have an adverse effect on the adhesive.

E. Lubricate the stain with glycerine or petroleum jelly.

F. Apply nail polish remover. The nail polish remover should not include lanolin or be of a greasy nature.

G. Sponge with turpentine (or substitute).

H. Freeze with ice cubes and scrape away while cold.

I. Clean with regular extractive carpet cleaner (if possible).

J. Use circular cutter and remove damaged portion.



Cleaning guide

Contaminant	Guide
Blood	A,C
Burn/Scorch Mark	J
Chewing Gum	B,C,D,H
Chocolate	B,C,D
Cooking Oils	B,C,D
Crayons/Markers	A,C
Drinks	Vacuum, I, or C
Dust/Dirt	B,C
Environment	C
Grease	B,C,D
Ink	D,C
Lipstick	A,C

Cleaning guide

Contaminant	Guide
Mildew	B,C,D
Milk	C
Mud	A
Nail Polish	B,C
Oil	A,F
Paint (Water-Based)	B,C,D
Paint (Oil-Based)	A,C,E
Sauces	A,C,D,G
Shoe Polish	B,D,D
Urine	A,C
Vomit	A,C,D
Wine	A, Salt, C

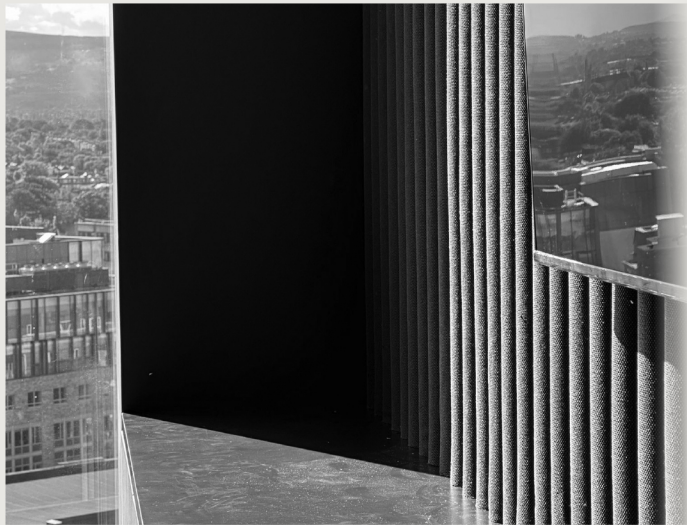
Recommended Application & Maintenance Guidance

- Gloves must always be worn when handling panels to prevent marking or surface damage
- Suitable for use in dry internal environments only
- Avoid installation or cleaning in high humidity conditions
- Ensure fixings are checked periodically for safety and stability
- Panels should be handled carefully to avoid edge or surface damage

IMPORTANT NOTES

- Do not use abrasive cleaners or solvents
- Do not saturate panels with water
- Avoid scrubbing or applying pressure to the surface
- Always clean gently to maintain finish and acoustic performance





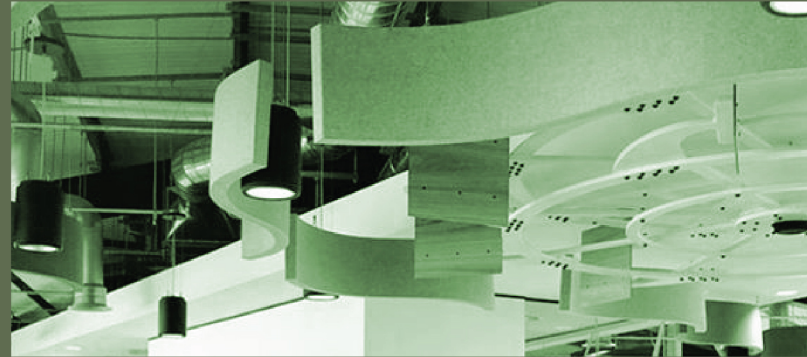
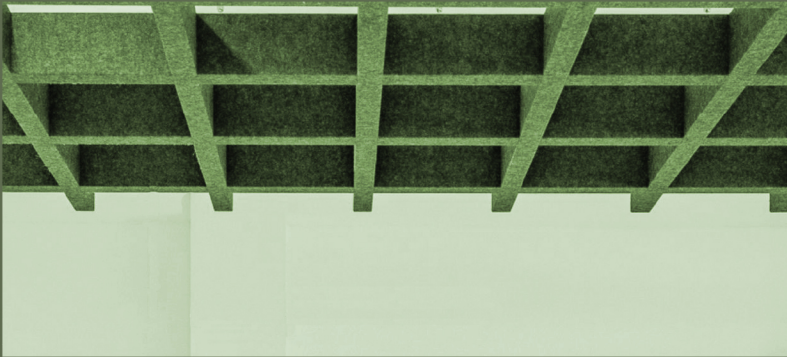
DOME

Designed to integrate seamlessly within architectural environments, Dome delivers high-performance acoustic control with clarity in specification and confidence in delivery.

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Our Sustainability Principles



01



We prioritise recycled, recyclable, and low-impact materials, including PET derived from plastic bottles and recycled glass-based acoustic solutions.

02



Our products are designed for longevity and adaptability, reducing waste and supporting reuse across multiple life cycles.

03



We continuously optimise our processes to minimise waste, reduce energy consumption, and eliminate harmful chemicals.

04



All materials are selected to support low emissions and safe indoor environments, contributing to improved occupant wellbeing.

05



Our state-of-the-art manufacturing facility runs on 100% renewable energy generated directly from solar power. We don't just talk about sustainability; we've engineered it right into our product lines.

Credentials



Sustainability at The Acoustics Company

Designing spaces that sound good, and do good.

At The Acoustics Company, we believe the spaces we create should enhance both human wellbeing and the environment. Every product we develop is guided by a commitment to responsible materials, efficient manufacturing, and long-term performance.



Environmental Performance

- Use of recycled and recyclable materials
- Low VOC and indoor air quality compliant products
- No harmful chemicals in core materials
- Lightweight systems reducing transport and installation impact
- Long lifecycle performance supporting reduced waste



Built for Better Spaces

Our acoustic solutions are designed not only to control sound, but to support healthier, more comfortable interior environments across workplace, education, hospitality, and public spaces. By combining acoustic performance with responsible material choices, we help create spaces that feel better and perform better, for the people who use them.



A Future in Harmony

Sustainability and performance should work together. With every panel, ceiling system, and acoustic solution, we are contributing to a more responsible built environment, one that balances design, function, and environmental impact.