

Echostop®

Echostop® is perforated plasterboard designed to create a decorative finish whilst providing a high level of sound absorption to the space. Echostop® perforated plasterboard is suitable for full ceiling installation or feature panels on internal walls or ceilings. Created for sound absorption treatment, Echostop® is available in 5 stylish designs with either slotted, square or round perforations to suit multiple design applications.

Echostop contains 10% Recycled Gypsum and is encased in a 100% recycled paper, the back of Echostop has a black acoustic fabric.

ADVANTAGES

- Sound absorptive acoustic fabric also acts as a dust barrier
- Reduce reverberation (echo)
- A selection of perforations to suit design requirements
- Decorative
- Simple installation



Image courtesy of Neil Fenelon ©.



Image courtesy of Royal Children's Hospital Melbourne, AUS. © Naomi Rahim.

BOARD SPECIFICATION

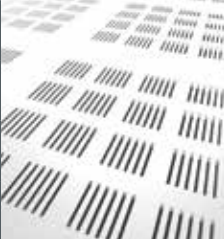


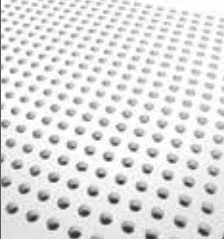

Feature	Description
Thickness	12.5mm
Patterns	Slotted Hole 101.5mm x 5mm (2 Grid Patterns/sheet) 82mm x 5mm (8 Block Patterns/sheet)
	Round Hole 13.5mm 20x20 holes (8 Block Patterns/sheet) 6mm 33x33 holes (8 Block Patterns/sheet)
	Square Hole 12mm 20x20 holes (8 Block Patterns/sheet)
Edge Profiles	Recessed edge
Sheet Size (width x length)	1200 x 2400mm
Paper Colour	Buff liner paper face/Black acoustic fabric backing
Open Area	6mm - 8.5%, 12mm - 16%, 13.5mm - 16%, 82mm - 11%, 101.5mm - 11%
Mass	10.0kg/m ² nominal
Fire Hazard Properties	Group 1 - in accordance with BCA Specification C1.10a Fire Hazard Properties - Floors, Walls and Ceilings.
Combustibility	Non Combustible material as defined in BCA Deem-to-Satisfy Provisions C1.12
VOC	Less than 0.5mg/m ³ TVOC



PERFORMANCE DETAILS

ACOUSTIC

Echostop® has been extensively tested in a 'full scale reverberation chamber' to AS ISO 354-2006. The table below outlines the different airgaps and insulation tested together with the α_w and NRC rating achieved. Copies of the test reports can be supplied upon request.

Table 1.	Perforation	Open Area	Insulation	Plenum / Air Gap	α_w	NRC	RMIT Test Report	
	82mm Slotted Rectangular	11%	*50G14	50mm	0.40(LM)	0.70	12-041/JW	
				90mm		0.65	12-040/JW	
				400mm	0.45(LM)	0.65	12-046/JW	
				700mm	0.50(LM)	0.60	12-056/JW	
	101.5mm Slotted Rectangular	11%		400mm	0.45(LM)	0.65	12-047/JW	
				700mm	0.50(LM)		12-054/JW	
	12mm Square Hole	16%	*90G14	90mm	0.60(LM)	0.80	12-038/JW	
					400mm	0.60(LM)	0.75	12-045/JW
					700mm	0.60(LM)		12-053/JW
	6mm Round Hole	8.5%		400mm	0.45(LM)	0.65	12-043/JW	
				700mm	0.50(L)		12-052/JW	
	13.5mm Round Hole	16%	Refer to 12mm Square Hole as an indication of acoustic result attainable.					

* 50/90mm 14kg/m³ Glasswool by Fletcher Insulation.

DECORATIVE

- Available in 5 stylish designs with either slotted, square or round perforations to suit multiple design applications.
- Suitable for internal wall and ceiling applications.

INSTALLATION

Recommended Installation of Echostop® can be found in “Layout Guide and Installation details” which is available at www.usgboral.com.au/echostop or call TecASSIST® on 1800 811 222.

SUSTAINABILITY

USG Boral products are manufactured from a combination of gypsum and paper liner made from 100% reclaimed and recycled paper waste.

Lightweight plasterboard construction offers the benefits of low embodied energy, non-toxic materials, enhanced indoor air quality, and ease of thermal and acoustic upgrading.

WASTE MANAGEMENT

Waste collection services are available to divert acceptable plasterboard waste away from landfill for recycling or re-processing for other uses. For information on waste collection services available, please contact your local USG Boral office.

INTERNAL SOUND LEVELS

Echostop®, when used in the design for reverberation control, can assist in achieving the required speech intelligibility criterion. It is strongly recommended to use this single-number rating in combination with the complete sound absorption coefficient data that can be obtained on request.

VOLATILE ORGANIC COMPOUNDS (VOC) AND FORMALDEHYDE MINIMISATION

All USG Boral products, compounds and adhesive have been independently tested to confirm compliance with Green Star specification limits for VOCs and are formaldehyde free. Certificate CV080417.

REFERENCES

Refer www.usgboral.com/echostop for Material Safety Data Sheet, Volatile Organic Compound Emission details and other additional information.

SALES ENQUIRIES **1800 226 215**

TecASSIST® **1800 811 222**

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This technical information is intended to provide general information on plasterboard products and should not be a substitute for professional building advice. We recommend you use a qualified person to install USG Boral plasterboard. Illustrations in this guide are only representative of USG Boral plasterboard products and the appearance and effects that may be achieved by their use. To ensure the information you are using is current, USG Boral recommends you review the latest building information available on the USG Boral website. www.usgboral.com website. Product availability should be checked with your local USG Boral Sales Office, as availability may vary.

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