



MAKING
SPACES
MATTER

ECHOTONE

DATA SHEET

Eco friendly lightweight
acoustic absorber

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ECHOTONE

PRODUCT DATA SHEET



VTEC

PRODUCT INFORMATION

Eco friendly lightweight acoustic absorber.

Applications



- Versatile Acoustic Board that is used as decorative and acoustic panels, suspended panels or rafts in many shapes and configurations.
- Installed in all types of environments including commercial, retail, office, hotel, restaurant & residential.

Composition



- 100% recyclable PET fibres, manufactured using minimum 60% recycled content.
- The material is safe, non-toxic and non-irritant.

Sheet Size

- Maximum standard individual panel size is 1.2m x 2.4m.
- We cut, shape and join for bespoke and over-size panels and shapes

Thickness

- 12, 24 or 36mm thick

Colours

- 26 different colours as standard. Bespoke colours and images can be printed onto the sheet.

Acoustics





- 12mm thick with no Cavity - NRC 0.40
- 12mm thick with 100mm Cavity - NRC 0.60
- 12mm thick with 200mm Cavity - NRC 0.95

- 24mm thick with no Cavity - NRC 0.65
- 24mm thick with 100mm Cavity - NRC 0.90
- 24mm thick with 200mm Cavity - NRC 1.0

Inclusion of air gap and insulation e.g. Mineral Wool insulation behind the panel can enhance the acoustic performance.

Please see pages 4 & 5 for full Acoustic Test Data.

PRODUCT INFORMATION

Installation	<ul style="list-style-type: none"> - Various installation methods dependant on the exact application but includes, adhesion, mechanical fix and suspension wires. <p>Contact Vtec for further information.</p>
Workability	<ul style="list-style-type: none"> - If slats require cutting use a sharp Stanley knife.
Weight	<ul style="list-style-type: none"> - 12mm thick – approx. 2.4 kg/m² - 24mm thick – approx. 4.8kg/m² - 36mm thick – approx. 7.2kg/m²
Fire Performance 	<ul style="list-style-type: none"> - EN135001-1:2007+a1:2009 - B, s1, d0 <p>Contact Vtec for full test data & application details.</p>
Maintenance	<ul style="list-style-type: none"> - Not needed apart from occasional dusting. - Any dirt deposits can be wiped off. - Panels not to be subjected to moisture or wet cloths.
Sustainability 	<ul style="list-style-type: none"> - Made from 60% recycled PET felt - No Formaldehyde binders - LOW Vocs - 100% recyclable at the end of product life - Not affected by moisture, mould or mildew - REACH: Pass

COLOUR SWATCHES



ROTTERDAM RED



RICHMOND RED



ONTARIO ORANGE



OAKLAND ORANGE



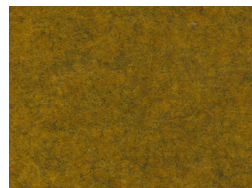
PANAMA PINK



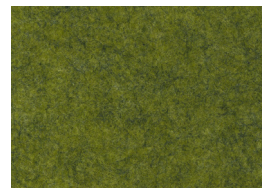
YORKTOWN YELLOW



YOKOHAMA YELLOW



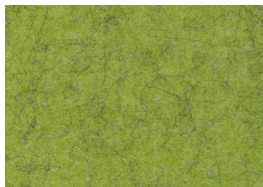
BOSTON BROWN



GENEVA GREEN



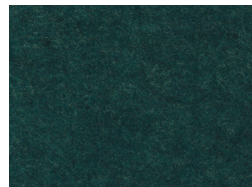
GIBRALTAR GREEN



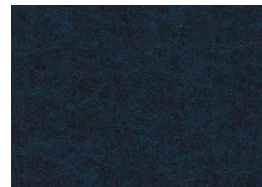
GRENADA GREEN



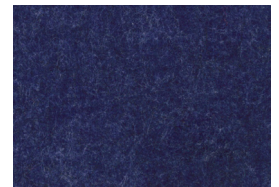
TORONTO TEAL



TOKYO TEAL



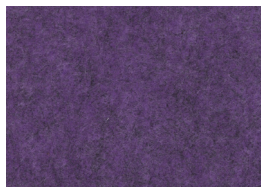
BOLOGNA BLUE



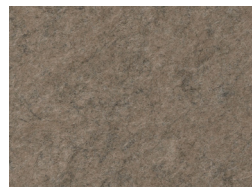
BALTIMORE BLUE



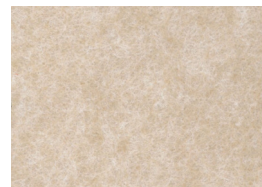
BARCELONA BLUE



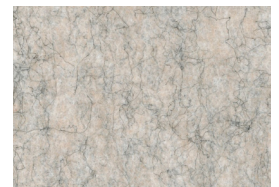
PALERMO PURPLE



BROOKLYN BEIGE



BERLIN BEIGE



BOGOTA BEIGE



GLASGOW GREY



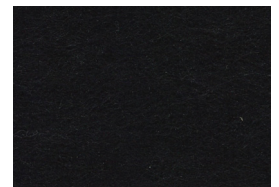
GENOA GREY



GRENOBLE GREY



GUADELOUPE GREY

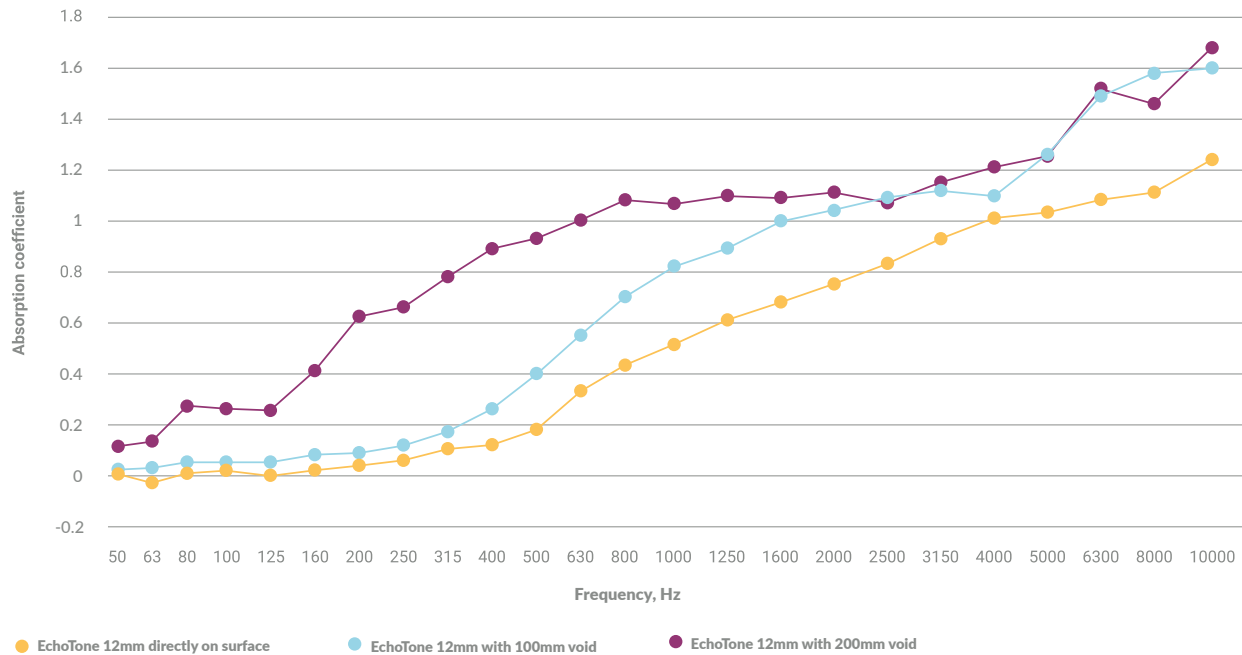


BUDAPEST BLACK



WARSAW WHITE

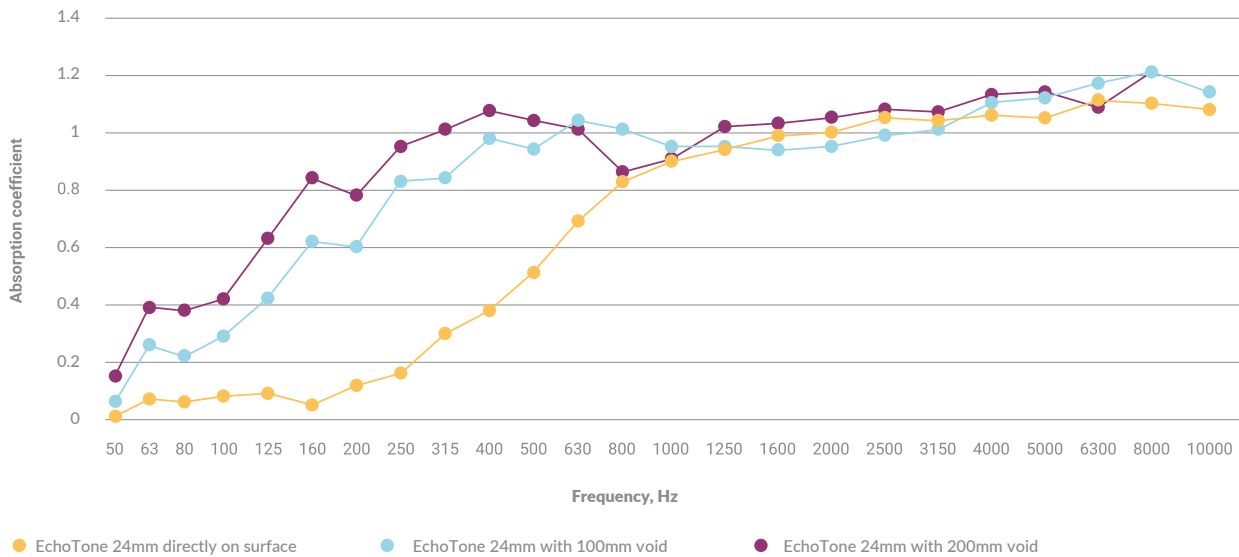
ECHOTONE 12MM THICK - SOUND ABSORPTION COEFFICIENTS



ECHOTONE 12MM ACOUSTIC WALL COVERINGS SOUND ABSORPTION COEFFICIENT

Freq Hz	ECHOTONE 12MM DIRECTLY ON SURFACE Absorb Coeff α_s	ECHOTONE 12MM WITH 100MM VOID Absorb Coeff α_s	ECHOTONE 12MM WITH 200MM VOID Absorb Coeff α_s
50	0.01	0.02	0.11
63	-0.03	0.03	0.13
80	0.01	0.05	0.27
100	0.02	0.05	0.26
125	0.00	0.05	0.25
160	0.02	0.08	0.41
200	0.04	0.09	0.62
250	0.06	0.12	0.66
315	0.10	0.17	0.78
400	0.12	0.26	0.89
500	0.18	0.40	0.93
630	0.33	0.55	1.00
800	0.43	0.70	1.08
1000	0.51	0.82	1.07
1250	0.61	0.89	1.10
1600	0.68	1.00	1.09
2000	0.75	1.04	1.11
2500	0.83	1.09	1.07
3150	0.93	1.12	1.15
4000	1.01	1.10	1.21
5000	1.03	1.26	1.25
6300	1.08	1.49	1.52
8000	1.11	1.58	1.46
10000	1.24	1.60	1.68
NRC	0.40	0.60	0.95
Alpha w			
Class	E	D	A

ECHOTONE 24MM THICK - SOUND ABSORPTION COEFFICIENTS



ECHOTONE 24MM ACOUSTIC WALL COVERINGS SOUND ABSORPTION COEFFICIENT

	ECHOTONE 24MM DIRECTLY ON SURFACE	ECHOTONE 24MM WITH 100MM VOID	ECHOTONE 24MM WITH 200MM VOID
Freq Hz	Absorb Coeff α_s	Absorb Coeff α_s	Absorb Coeff α_s
50	0.01	0.06	0.15
63	0.07	0.26	0.39
80	0.06	0.22	0.38
100	0.08	0.29	0.42
125	0.09	0.42	0.63
160	0.05	0.62	0.84
200	0.12	0.60	0.78
250	0.16	0.83	0.95
315	0.30	0.84	1.01
400	0.38	0.98	1.08
500	0.51	0.94	1.04
630	0.69	1.04	1.01
800	0.83	1.01	0.86
1000	0.90	0.95	0.91
1250	0.94	0.95	1.02
1600	0.99	0.94	1.03
2000	1.00	0.95	1.05
2500	1.05	0.99	1.08
3150	1.04	1.01	1.07
4000	1.06	1.10	1.13
5000	1.05	1.12	1.14
6300	1.11	1.17	1.09
8000	1.10	1.21	1.21
10000	1.08	1.14	1.14
NRC	0.65	0.90	1.00
Alpha w	0.50(MH)	0.95	1.00
Class	D	A	A