

# Martini ABSORB

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High performance sound absorptive insulation

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## Martini Absorb

- Thermally-bonded polyester fibre insulation specifically designed to provide high performance sound absorption across a range of frequencies to reduce echo and reverberation.
- Made in a range of densities and thicknesses with fibre blends specifically engineered to provide maximum thermal and acoustic performance in many diverse commercial, residential, community and industrial applications.
- Non-irritant and does not require any protective clothing or masks during installation.
- Available in standard white and black colour. Grey available upon request.

## Applications

Martini Absorb is ideal for use behind perforated panelling and behind ceilings in sports halls, cinemas, studios, industrial enclosures, HVAC ducts, silencers or plant rooms.

Martini Absorb can also be laid above suspended ceilings. Absorb is not suitable for fully exposed applications or where a decorative finish is required.

**NOTE:** Product is not suitable for self-supported horizontal applications. Please refer to the Absorb Installation Guide for recommended installation method.

## Environmental Benefits and Credentials

Manufactured from thermally bonded polyester fibre with up to 50-70% recycled fibre content from post-consumer, pre-consumer and post-industrial PET packaging such as empty drink bottles.

- GreenTag<sup>Cert™</sup> certified
- Environmental Product Declaration (EPD) Certified in accordance with ISO 14025
- Product Health Declaration (PHD) certified
- Declare certified
- Suitable for Green Star<sup>™</sup> projects
- No red list chemicals are present
- No ozone-depleting gases are used during the manufacturing process
- Safe, non-irritant, non-toxic, and non-allergenic
- Products are 100% recyclable
- High reuse potential



Martini's Product Stewardship Program can be viewed at [www.csrmartini.com.au](http://www.csrmartini.com.au)

## Installation

For product installation instructions, please refer to the CSR Martini installation guide available at [csrmartini.com.au](http://csrmartini.com.au)

## Acoustic Performance

Frequencies	125hz	250hz	500hz	1,000hz	2,000hz	4,000hz	Alpha W	NRC
MD 25	0.14	0.33	0.59	0.79	0.84	0.89	0.60	0.65
MD 50	0.24	0.54	0.90	0.98	1.01	1.06	0.85	0.85
HD 25	0.12	0.29	0.62	0.78	0.91	0.92	0.60	0.65
HD 50	0.22	0.54	1.02	1.07	1.04	1.11	0.90	0.95
HD 75	0.41	0.85	1.15	1.11	1.07	1.16	1.00	1.05
HD 100	0.54	1.12	1.13	0.97	0.94	0.99	1.00	1.00
XHD 50	0.19	0.62	1.01	1.02	0.98	0.96	0.90	0.90
XHD 75*	0.45	0.80	1.00	1.00	1.00	1.00	1.00	1.00
XHD 100	0.60	1.18	1.15	0.99	1.00	1.01	1.00	1.10
XXHD 25	0.11	0.42	0.76	0.89	0.86	0.88	0.70	0.70
XXHD 50	0.25	0.65	0.95	0.95	0.95	0.95	0.95	0.90
XXHD 75	0.40	0.87	0.96	0.95	0.87	0.89	1.00	0.95

Tested in accordance with AS/ISO 354:2006. \*Opinion derived from empirical data.

## Flow Resistivity

Product	Absorb HD	Absorb XHD	Absorb XXHD
MKS RAYL/M	7,994	14,693	21,008

Tested in accordance with ASTM C 522-03

## Product Specifications

Product	Thickness (mm)	Length (mm)	Width (mm)	Sheets /pack	m <sup>2</sup> /pack
MD 25	25	2400	1200	12	34.56
MD 50	50	2400	1200	6	17.28
MD 75	75	2400	1200	4	11.52
MD 100	100	2400	1200	3	8.64
HD 25	25	2400	1200	12	34.56
HD 50	50	2400	1200	6	17.28
HD 75	75	2400	1200	4	11.52
HD 100	100	2400	1200	3	8.64
XHD 25	25	2400	1200	10	28.80
XHD 50	50	2400	1200	6	17.28
XHD 75	75	2400	1200	4	11.52
XHD 100	100	2400	1200	3	8.6
XXHD 25	30	2400	1200	10	28.8
XXHD 50	50	2400	1200	3	8.64
XXHD 75	75	2400	1200	2	5.76
XXHD 100	100	2400	1200	2	5.76

Absorb FD, and LD 75 and 100 are also available as an un-rated low density product

## Martini Absorb



## Physical Description and Properties

<b>Flash point:</b>	None allocated
<b>Other properties:</b>	Non-allergenic, low irritant, low flame response, resilient
<b>Ingredients:</b>	Organic, long chain synthetic polymer
<b>Max service temp:</b>	150°C
<b>Alkalinity:</b>	pH 7.8 (pH 7 is neutral)
<b>Moisture absorption:</b>	Exposure to an atmosphere of 50°C and 95% RH for four days gives moisture absorption of less than 0.2% by volume

## Fire Resistance:

Material	Thickness	Early Fire Hazard - Ignition	Early Fire Hazard - Spread of Flame	Early Fire Hazard - Heat Evolved	Early Fire Hazard - Smoke Developed
Absorb LD, MD White, Black, Grey	25mm	10	0	1	3
	50mm				
	75mm				
	100mm				
Absorb HD, XHD White, Black, Grey	25mm	10	0	1	3
	50mm				
	75mm	0	0	0	2
	100mm				
Absorb XXHD White, Black, Grey	25mm	10	0	1	3
	50mm				
	75mm	0	0	0	2
	100mm				



Material	Thickness	Group Number (AS 5637.1)	SMOGR <sub>RC</sub> [m <sup>2</sup> /s <sup>2</sup> x 1000] (AS 5637.1)
Absorb LD White	25mm 50mm 75mm 100mm	1	≤ 100
Absorb MD White			
Absorb HD White			
Absorb XHD White			
Absorb XXHD White	25mm 50mm	2	≤ 100
Absorb XXHD White	100mm		
Absorb MD Black	50mm	1	≤ 100
Absorb HD Black			
Absorb XHD Black			
Absorb XXHD Grey			

Tested to AS ISO 9705 Corner Burn in accordance with AS 5637.1

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