

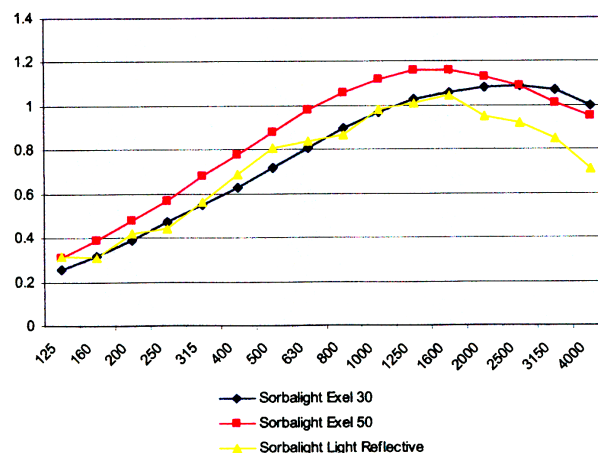


**HARLAND
ENGINEERING**

Pumps | Acoustics | Design

SORBALIGHT EXEL PANELS

3D Absorber with High Performance Facing



Sorbalight Exel Panel is a new development in high performance panels for reverberation control.

Sorbalight Exel Panels are versatile and have an aesthetically appealing variety of finishes to complement desires of designers.

Sorbalight Exel Panels maintain high acoustic performance, easy handling and installation. Their light weight means that no additional support structures are required to mount Sorbalight Exel Panels.

Sorbalight Exel Panels do not encourage the development of smells associated with absorption and retention of water and do not suffer from corrosion.

FEATURES

- > Premium sound absorption properties
- > Non wicking - avoids contamination and generation of odours
- > Fire hazard complies with requirements stated in the Australian Building Code
- > Lightweight
- > Thermal conductivity $k=0.038$ W/mK

BENEFITS

- > Light and rigid construction makes it easy to handle and install
- > Suitable for ceiling and wall application
- > Recyclable, manufactured from 100% polyester fibre
- > Contains no resin binders to create an unsatisfactory odour

APPLICATIONS

- > Noise control and thermal insulation for architectural application
- > Acoustic lining in schools and offices

TOXICOLOGY/HEALTH AND SAFETY

Sorbalight Exel is completely non-toxic and safe to handle without protective clothing or respiration apparatus.

STANDARD PANEL SIZES

Type 1 1000 x 1000 x 30mm thick

Type 2 500 x 1000 x 30mm thick

NOTES: Specifications are subject to change without notice.

The data listed in this data sheet are typical or average values based on tests conducted by independent laboratories or by the manufacturer.

They are indicative only of the results obtained in such tests and should not be considered as guaranteed maximums or minimums. Materials must be tested under actual service to determine their suitability for a particular purpose.



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SOUND ABSORPTION (TEST IN THE REVERBERATION ROOM)

SOUND ABSORPTION COEFFICIENT			
Frequency Hz	Sorbalight Exel 30mm Thick	Sorbalight Exel 50mm Thick	Sorbalight Exel 30mm Thick Light Reflective
125	0.26	0.31	0.32
160	0.32	0.39	0.31
200	0.39	0.48	0.42
250	0.47	0.57	0.44
315	0.55	0.68	0.56
400	0.63	0.78	0.69
500	0.72	0.88	0.81
630	0.81	0.98	0.84
800	0.90	1.06	0.87
1000	0.97	1.12	0.98
1250	1.03	1.16	1.01
1600	1.06	1.16	1.05
2000	1.08	1.13	0.95
2500	1.09	1.09	0.92
3150	1.07	1.01	0.85
4000	1.00	0.95	0.71
NRC	0.80	0.95	0.80

FLAMMABILITY PROPERTIES

MATERIAL	MVSS-302	AS1530.3 TESTED IN FEBRUARY 2006			
	Self Extinguishing	Ignitability	Spread Of Flame	Heat Evolved	Smoke Develop.
Sorbalight Exel Std		9	0	2	4
Sorbalight Exel LF		0	0	0	4

MISCELLANEOUS PROPERTIES

MATERIAL	REC. MAX. SERVICE TEMP.	CHEMICAL RESISTANCE	THERMAL CONDUCTIVITY	MOISTURE ABSORPTION
Sorbalight Exel	110 C Continuous	Excellent	0.038 W/mK	<0.03% by vol. At 50C 90% RH (for 4 days or more).

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