

DATA SHEET

DECORINSUL WGC 50

DecorInsul XHD 50

- Thermally bonded polyester fibre insulation specifically designed to provide high performance acoustic absorption.
- Extra high density, specifically engineered to provide maximum thermal and acoustic properties.
- Available in standard white colour or black if required.

Applications

DecorInsul is ideal for use behind perforated paneling and ceilings in sports halls, cinemas, studios, industrial enclosures, HVAC ducts, silencers or plant rooms. It is highly effective at reducing echo in rooms and provides even sound absorption across the speech range frequencies

DecorInsul is recommended as a cavity infill where low frequency noise separation through walls and ceilings is required.

DecorInsul can also be used behind decorative woven fabrics as acoustic panels or baffles to cut reverberation and echo in commercial areas where hard surfaces predominate and cause unwanted noise.

DecorInsul can also be laid above suspended ceilings to reduce flanking noise between rooms.

Environmental benefits

DecorInsul is manufactured from thermally bonded polyester fibre with up to 80% recycled fibre content from post-consumer PET packaging such as empty drink bottles. The product is 100% recyclable and has very high reuse potential as insulation.

- No chemicals or phenol formaldehyde resin binders are used in manufacture.
- Odourless and contains no harmful volatile organic compounds (VOC).
- No waste is generated in manufacture.
- No water or ozone-depleting gases are used in manufacture.
- No chlorides are present in the product.
- Suitable for use in Green Star™ projects.

Acoustic performance tested to AS/ISO 354 2006

Frequencies hz	125	250	500	1000	2000	4000	NRC
DecorInsul WGC 50	0.20	0.60	1.00	1.00	0.95	0.95	0.90

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Flow resistivity

Product	MKS RAYL/M
DecorInsul WGC 50	14,693

Packaging and sizes

Standard sizes and packaging (Can be made in other sizes to order)	Thickness mm	Length/width mm	NRC	Calculated R-Value
DecorInsul WGC 50	50	2400 x 1200	0.90	1.5

Physical description and properties

Volatiles:	Nil		
Specific Gravity:	1.38		
Flash Point:	None allocated		
Other Properties:	Non-allergenic, low irritant, low flame response, resilient		
Ingredients:	Organic, long chain synthetic polymer		
Max Service Temp:	150°C		
Alkalinity:	pH 7.8 (pH 7 is neutral)		
Moisture Absorption:	Exposure to an atmosphere of 50°C & 95% RH for four days gives moisture absorption of less than 0.2% by volume		
Fire Resistance:	DecorInsul meets all requirements of the BCA for all insulation applications	Ignitability 0 Spread of Flame 0 Heat Evolved 0 Smoke Developed 0-1	

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