



## DECI-TEX® 3D 3-Dimensional Thermally Bonded Polyester Absorber

DECI-TEX 3D is a vertically-aligned, thermally bonded polyester sound absorber.

A continuous improvement process in handling and processing polyester fibre has resulted in outstanding acoustic sound absorbing and thermal properties.

The unique fibre construction of DECI-TEX 3D allows the combination of good sound absorption properties with desirable mechanical properties. The product completely retains its vertical integrity and does not de-laminate or stratify.

DECI-TEX 3D exhibits low fire hazard properties and is completely safe and non-toxic to use.

DECI-TEX 3D is a practical alternative to fibreglass and mineral fibre sound absorption materials.

Because DECI-TEX 3D is made with the fibres oriented vertically we are able to offer this product with our acrylic Radical 1253 "Fingerlift®" (striped) self-adhesive system, which is the most economical and the most convenient and efficient way to install the material.

### FEATURES

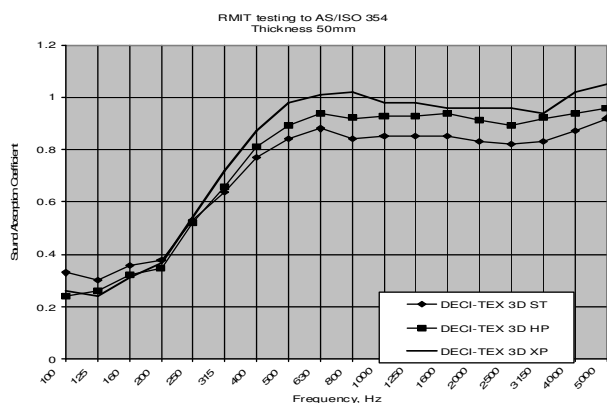
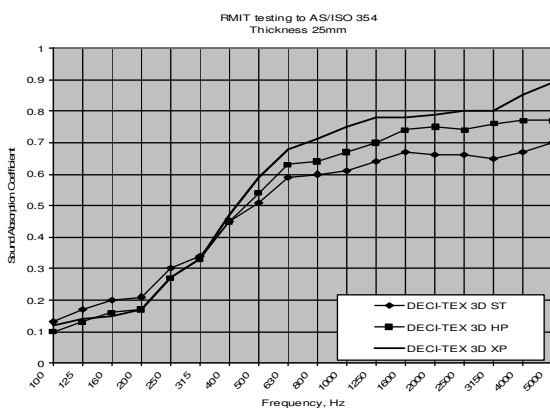
- Completely safe, non-toxic
- Low fire hazard properties – tested to AS1530.3 returns 8, 0, 1, 4
- Available with self-adhesive backing using acrylic adhesive system Radical 1253
- Non-allergenic
- Range of densities and thicknesses
- Can be moulded to shape

### BENEFITS

- Safe and clean to handle
- Protective clothing not required
- Easy to install using self-adhesive
- Replaces Fibreglass and Rockwool

### APPLICATIONS

- Reverberation control for buildings, plant rooms and all acoustic applications
- Acoustic infill for silencers and louvres
- Acoustic panels
- Acoustic baffles



### STANDARD PRODUCT CODES

STANDARD PRODUCT	THICKNESS	WIDTH	ROLL LENGTH
DECI-TEX 3D 25	25mm	2000 mm	30m
DECI-TEX 3D 50	50mm	2000 mm	30m

DECI-TEX 3D is manufactured to a nominal thickness only. Typical thickness variations are  $\pm$  2mm.

### SOUND ABSORPTION (Tested in the Reverberation Chamber at RMIT, Melbourne)

FREQUENCY	SOUND ABSORPTION COEFFICIENT					
	DECI-TEX 3D 25mm thick			DECI-TEX 3D 50mm thick		
	ST	HP	XP	ST	HP	XP
Hz						
125	0.17	0.13	0.14	0.30	0.26	0.24
250	0.30	0.27	0.27	0.53	0.52	0.54
500	0.51	0.54	0.59	0.84	0.89	0.98
1000	0.61	0.67	0.75	0.85	0.93	0.98
2000	0.66	0.75	0.79	0.83	0.91	0.96
4000	0.67	0.77	0.85	0.87	0.94	1.02
NRC(250-2000 Hz.)	0.50	0.55	0.60	0.75	0.80	0.85

### FLAMMABILITY PROPERTIES

MATERIAL	UL94	FMVSS-302	AS 1530.3			
			Ignit-Ability	Spread of Flame	Heat Evolved	Smoke Developed
DECI-TEX 3D (any thickness)	N/A	Self Extinguishing 0 Burn rate	8	0	1	4

### MISCELLANEOUS PROPERTIES

MATERIAL	REC. MAX. SERVICE TEMP.	CHEMICAL RESISTANCE	TYPICAL THERMAL RESISTANCE'	MOISTURE ABSORPTION
DECI-TEX 3D	130C Continuous	Excellent	R=0.8 at 25mm R=2.0 at 50mm	<0.03% by vol. At 50C, 90% RH (for 4 days or more).

### TOXICOLOGY/HEALTH AND SAFETY

DECI-TEX 3D is completely non-toxic and safe to handle without protective clothing or respiration apparatus.

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.



**Commercial  
In  
Confidence**

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