



## DECI-TEX<sup>®</sup> 3D AL Aerofoil<sup>®</sup> Foil Faced 3D Acoustic Fabric

DECI-TEX 3D AL is an aluminium foil faced 3D polyester acoustic fabric with low flammability and smoke emission designed for HVAC applications.

The 3D polyester thermally bonded fibre construction and advanced lamination technology results in high sound absorption. The reinforced aluminium foil provides a light and heat reflective facing which protects the 3D composition from the ingress of dust, oil and other contaminants.

DECI-TEX 3D AL develops a very high vertical strength which makes it suitable for transferring adhesive tapes. Hence the high performing **RADICAL**<sup>®</sup> acrylic adhesive tapes constitute an integral part of the product. The use of self adhesive backing is not reliable with currently popular polyester and resin bonded synthetic mineral fibre blankets which fall apart when the release paper is removed just prior to installation. The entire Deci-Tex 3D system with the pressure sensitive adhesive backing meets the AS1530 part 3 fire test requirements for HVAC applications.

### FEATURES

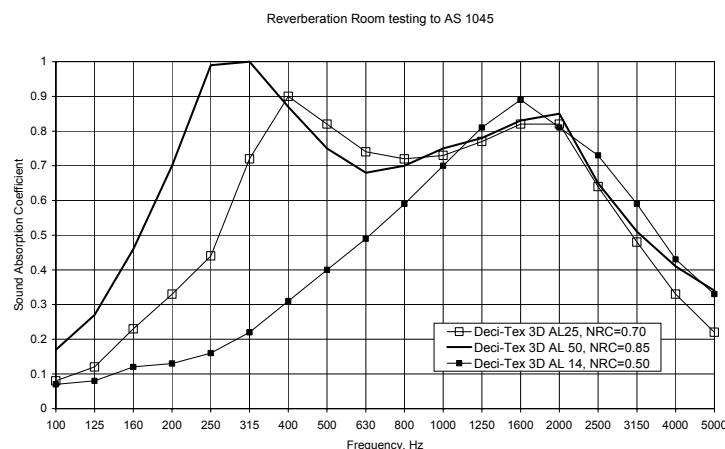
- High product integrity in horizontal and vertical direction
- Low fire hazard properties
- Good sound absorption properties
- **RADICAL**<sup>®</sup> 1253 acrylic adhesive tapes
- Light and heat reflective impermeable facing
- Low thermal conductivity

### BENEFITS

- Self adhesive – easy to install
- Low installation cost
- Safe and clean to handle
- Protective clothing not required

### APPLICATIONS

- Noise control and thermal insulation for HVAC equipment
- Acoustic lining for ductwork
- Acoustic infill for silencers and louvres
- Acoustic panels
- Acoustic baffles



### STANDARD PRODUCT CODES

| STANDARD PRODUCT  | THICKNESS | WIDTH  | ROLL LENGTH | DENSITY              |
|-------------------|-----------|--------|-------------|----------------------|
| DECI-TEX 3D AL14A | 14mm      | 1500mm | 30m         | 24 kg/m <sup>3</sup> |
| DECI-TEX 3D AL25A | 25mm      | 1500mm | 30m         | 24 kg/m <sup>3</sup> |
| DECI-TEX 3D AL50A | 50mm      | 1500mm | 20m         | 24 kg/m <sup>3</sup> |

DECI-TEX 3D AL is manufactured to a nominal thickness only. Typical thickness variations are ± 2mm.

### SOUND ABSORPTION (Test in the reverberation room at RMIT, Melbourne, to AS 1045)

| FREQUENCY<br>Hz   | SOUND ABSORPTION COEFFICIENT |                      |                      |
|-------------------|------------------------------|----------------------|----------------------|
|                   | Deci-Tex 3D<br>AL 14         | Deci-Tex 3D<br>AL 25 | Deci-Tex 3D<br>AL 50 |
| 100               | 0.07                         | 0.08                 | 0.17                 |
| 125               | 0.08                         | 0.12                 | 0.27                 |
| 160               | 0.12                         | 0.23                 | 0.46                 |
| 200               | 0.13                         | 0.33                 | 0.70                 |
| 250               | 0.16                         | 0.44                 | 0.99                 |
| 315               | 0.22                         | 0.72                 | 1.00                 |
| 400               | 0.31                         | 0.90                 | 0.87                 |
| 500               | 0.40                         | 0.82                 | 0.75                 |
| 630               | 0.49                         | 0.74                 | 0.68                 |
| 800               | 0.59                         | 0.72                 | 0.70                 |
| 1000              | 0.70                         | 0.73                 | 0.75                 |
| 1250              | 0.81                         | 0.77                 | 0.78                 |
| 1600              | 0.89                         | 0.82                 | 0.83                 |
| 2000              | 0.81                         | 0.82                 | 0.85                 |
| 2500              | 0.73                         | 0.64                 | 0.65                 |
| 3150              | 0.59                         | 0.48                 | 0.51                 |
| 4000              | 0.43                         | 0.33                 | 0.41                 |
| 5000              | 0.33                         | 0.22                 | 0.34                 |
| NRC(250-2000 Hz.) | 0.50                         | 0.70                 | 0.85                 |

### FLAMMABILITY PROPERTIES

| MATERIAL       | UL94 | MVSS-302                          | AS 1530.3     |                 |              |                |
|----------------|------|-----------------------------------|---------------|-----------------|--------------|----------------|
|                |      |                                   | Ignit-Ability | Spread of Flame | Heat Evolved | Smoke Develop. |
| DECI-TEX 3D AL | N/A  | Self Extinguishing<br>0 Burn rate | 0             | 0               | 0            | 3              |

NOTES: Specifications are subject to change without notice.

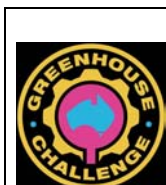
The data listed in this data sheet are typical or average values based on tests conducted by independent laboratories or by the manufacturer. They are indicative only of the results obtained in such tests and should not be considered as guaranteed maximums or minimums. Materials must be tested under actual service to determine their suitability for a particular purpose.

### MISCELLANEOUS PROPERTIES

| MATERIAL       | REC. MAX. SERVICE TEMP. | CHEMICAL RESISTANCE | THERMAL CONDUCTIVITY 'K' | MOISTURE ABSORPTION                                 |
|----------------|-------------------------|---------------------|--------------------------|---|
| DECI-TEX 3D AL | 130C Continuous         | Excellent           | 0.036 W/mC               | <0.03% by vol. At 50C, 90% RH (for 4 days or more). |

### TOXICOLOGY/HEALTH AND SAFETY

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



**Commercial  
In  
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