



## DECI-TEX<sup>®</sup> 3D PAL Perforated Aluminium Foil Faced 3D Acoustic Fabric

DECI-TEX 3D PAL is a reinforced 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 perforated aluminium foil provides a standard industrial perforated pattern with 11% opened area.

DECI-TEX 3D PAL 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
- Choice of adhesives:
  - **RADICAL**<sup>®</sup> 1253 acrylic adhesive
  - Low cost spray adhesive
- Low thermal conductivity

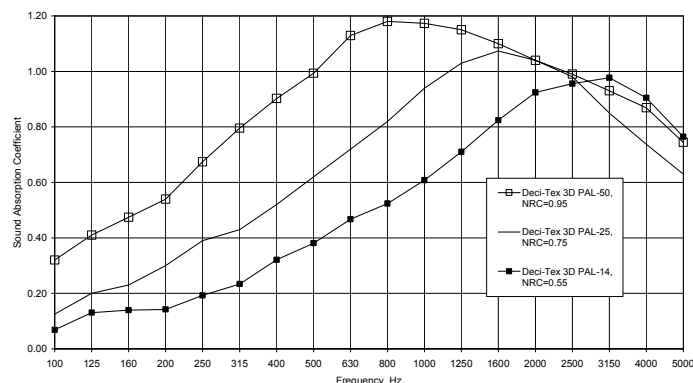
### BENEFITS

- 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

Reverberation Room testing to AS 1045



### STANDARD PRODUCT CODES

| STANDARD PRODUCT  | THICKNESS | WIDTH  | ROLL LENGTH | DENSITY              |
|-------------------|-----------|--------|-------------|----------------------|
| DECI-TEX 3D PAL12 | 14mm      | 1500mm | 30m*)       | 24 kg/m <sup>3</sup> |
| DECI-TEX 3D PAL25 | 25mm      | 1500mm | 30m*)       | 24 kg/m <sup>3</sup> |
| DECI-TEX 3D PAL50 | 50mm      | 1500mm | 20m*)       | 24 kg/m <sup>3</sup> |

DECI-TEX 3D PAL is manufactured to a nominal thickness only. Typical thickness variations are ± 2mm, typical density variations are ±10%

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

| FREQUENCY<br>Hz   | SOUND ABSORPTION COEFFICIENT |                       |                       |
|-------------------|------------------------------|-----------------------|-----------------------|
|                   | Deci-Tex 3D<br>PAL 50        | Deci-Tex 3D<br>PAL 25 | Deci-Tex 3D<br>PAL 14 |
| 100               | 0.32                         | 0.13                  | 0.07                  |
| 125               | 0.41                         | 0.20                  | 0.13                  |
| 160               | 0.47                         | 0.23                  | 0.14                  |
| 200               | 0.54                         | 0.30                  | 0.14                  |
| 250               | 0.67                         | 0.39                  | 0.19                  |
| 315               | 0.80                         | 0.43                  | 0.23                  |
| 400               | 0.90                         | 0.52                  | 0.32                  |
| 500               | 0.99                         | 0.62                  | 0.38                  |
| 630               | 1.13                         | 0.72                  | 0.47                  |
| 800               | 1.18                         | 0.82                  | 0.52                  |
| 1000              | 1.17                         | 0.94                  | 0.61                  |
| 1250              | 1.15                         | 1.03                  | 0.71                  |
| 1600              | 1.10                         | 1.07                  | 0.82                  |
| 2000              | 1.04                         | 1.04                  | 0.92                  |
| 2500              | 0.99                         | 0.98                  | 0.96                  |
| 3150              | 0.93                         | 0.85                  | 0.98                  |
| 4000              | 0.87                         | 0.74                  | 0.90                  |
| 5000              | 0.74                         | 0.63                  | 0.76                  |
| NRC(250-2000 Hz.) | 0.95                         | 0.75                  | 0.53                  |

### FLAMMABILITY PROPERTIES

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

NOTES: Specifications are subject to change without notice.

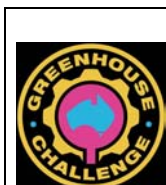
The data listed in this data sheet are typical or average values based on tests conducted by independent laboratories or by the manufacturer. They are indicative only of the results obtained in such tests and should not be considered as guaranteed maximums or minimums. Materials must be tested under 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 PAL | 130C Continuous or 90C continuous with spray adhesive | 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 PAL is completely non-toxic and safe to handle without protective clothing or respiration apparatus.



**Commercial  
In  
Confidence**

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