

# Acoustics/Cleaning Plaspanel

## ACOUSTICS

Issue: 1 Feb 2006

Plaspanel 25 mm thick panels have an S.T.C. rating of 31 dB which is excellent as a sound isolator. Plaspanel performs well in preventing sound from travelling from one source to the other.

### Applications:

- Audio Speaker Boxes
- Engine Enclosures
- Machinery Noise Dampeners
- Roadside Barriers

### S.T.C. Rating

The higher the S.T.C. rating the better material performs as a sound isolator. A comparison of common materials is as follows:

Material	Transmission Loss dB
Timber, Fir, 25 mm	21
Plywood 25 mm	23
Gypsum Board 12 mm	17
Concrete Block, Hollow Core 100mm	30
Brick 100 mm	33
<b>Plaspanel 25 mm</b>	<b>31</b>

Plaspanel reflects sound rather than absorbing sound, showing similar characteristics as brick and concrete.

### Acoustic Performance

The table below gives the airborne transmission loss results rounded to the nearest decibel for the common frequencies.

Frequency Hz	125	250	500	1000	2000	4000
TL dB	21	25	28	32	31	39

Plaspanel multi purpose panels are not efficient sound absorbers and are similar to brick or concrete in that aspect.

## CLEANING

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### Diverclean C3

Manufacturer: Johnson Diversey

Available from: J. Blackwood & Son (Part No. 13600)  
Telephone (03) 8756 8222 or visit [www.blackwoods.com.au](http://www.blackwoods.com.au)

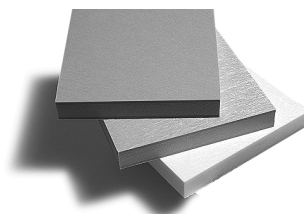
Diverclean C3 is a red alkaline liquid detergent with blended solvents and surfactants. It is non-flammable and is used in the Catering, Housekeeping, Healthcare, Transport and Maintenance Industries.

- Non-corrosive
- Free rinsing

Ask for a copy of the Diverclean C3 data sheet by contacting J. Blackwood & Son for further information.

Please ensure you check the suitability of cleaners relating to your application before using.

[www.plaspanel.com](http://www.plaspanel.com)



# Plaspanel®

Multi-purpose plastic panels

# UV Stabilisation of Plaspanel

## UV STABILISATION

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Plaspanel (PE) is UV stabilised and manufactured to provide mechanical strength and colour consistency.

### Mechanical Strength

Plaspanel is designed to produce a long-term mechanical life and 10 years plus would be a reasonable expectation.

### Colour

Our colour base is selected to provide minimum degradation through a large range of external and internal applications. Over a period of time some light coloured surface degradation will develop depending on the severity of the environment. It must be noted that darker colours will provide the highest contrast ratio with the lighter colours the least.

### General

Where specific applications, whether it be extreme concentration of UV or florescent lighting then ensure you advise our technical department to develop a product specifically tailored to meet the required conditions.

### Accelerated Weather Testing

It must be noted that accelerated weathering is not the same as natural outdoor weathering but does provide a prediction of colour performance.

Results indicate the following:

- 5 years Champagne/White/Grey (minimal change)
- 2 years Green (minimal change)
- 2 years Black (significant change)

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Available from: