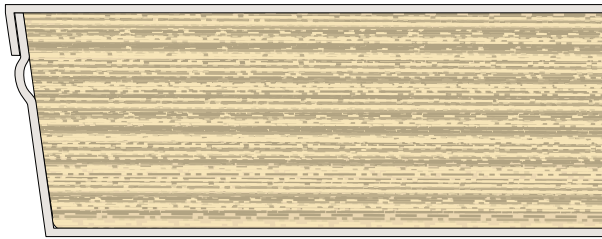


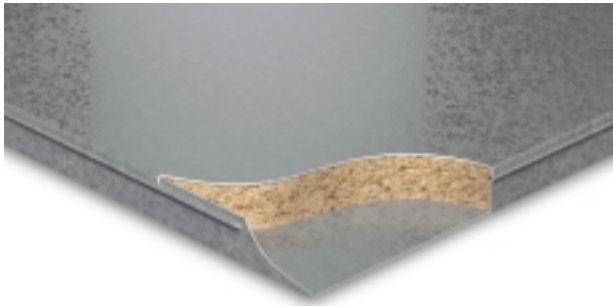
# Data Sheet: Diamond PSA

PSA rated steel encapsulated/particle board construction, loose lay raised access floor panel.

## Corner Detail



## Panel Illustration



## Feature Benefits

- High edge strength reducing edge to edge deflection
- Precision construction and location for an accurate floor grid
- Solid underfoot
- Panel construction gives Class O fire rating
- Excellent electrical continuity is maintained
- Safe and easy access
- Excellent lateral stability
- 600mm x 900mm oversize panels available in order to minimise perimeter cutting

## Typical Areas of Application

General office areas.

## Description

This loose lay floor panel is fully rated to the PSA MOB PF2 PS/SPU medium grade requirements. The design incorporates a wrap-around construction which provides total encapsulation of the chipboard core. The panel edge design improves edge strength and panel removal and replacement.

With a wide range of optional factory accessories and applied finishes this panel construction is suitable to fulfil many applications.

Category	Loose lay
Panel Size	600mm square
Core Material	High Density Particle Board
Panel Construction	Galvanised steel encapsulated particle board core

	Panel Thickness (nominal)	System Weight (typical)
<b>Diamond D5</b>	31mm	36kg/m <sup>2</sup>
<b>Diamond D3</b>	31mm	31kg/m <sup>2</sup>

## Construction

These floor panels are based on a 600mm square module constructed around a high performance chipboard core. The galvanised steel shell comprises of a base tray that is wrapped around and laminated to the particle board core. The galvanised steel top tray is laminated to the chipboard core and the design ensures contact with the base tray thereby ensuring electrical continuity. In addition the base tray incorporates an edge profile that ensures that floor panels are easily removable and replaceable when in use.

Positive location and retention of the floor panel is achieved by the use of a moulded plastic cap.

# Data Sheet: **Diamond** PSA

## Structural Performance

Panel Grade	Panel Type	Concentrated Load		Uniformly Distributed Load
		Point Load 25mm x 25mm square	Load Over 300mm x 300mm square	
Medium	Diamond	3.0kN	4.5kN	8.0kN/m <sup>2</sup>

- The above information is based on full compliance with the PSA MOB PF2 PS/SPU specification. Under the above working load conditions the panel deflection must not exceed 2.4mm based on 24hour testing. In addition to the above working loads each raised floor system carries a safety factor of 3 x working load.
- Finished floor heights from 55mm to 1200mm are available using standard pedestals. For heights outside of this range alternative pedestals are available.

## Special Applications

Bridging Sections	Where obstructions in the void prevent the use of pedestals.
Foil Tape	Aluminium foil tape to seal the edge of cut panels.
Pedestal Mechanical Fixings	To fix pedestals to floor in addition to adhesive for greater rigidity at increased floor heights/increased loadings or in situations where the sub-floor requires additional fixing.
Pedestal Earth Clamps	Provides an electrical connection to the floor system for earth bonding purposes. All conductive components of the raised access floor must be earth bonded in accordance with BS 7671-2001, 16th Edition Wiring Regulations.
Perimeter Gasket	20 x 9mm foam tape applied to the panel edge between floor and wall if required.
Ramps and Steps	Provided to accommodate changes in floor level.
Simplex	Factory applied variation to allow panels to be screw fixed to pedestals.
Stringers	<i>Snap on</i> :- provide additional lateral stability at increased floor heights. <i>Bolt on</i> :- provide additional lateral stability and increased load bearing properties.