

# Data Sheet: **RG PSA**

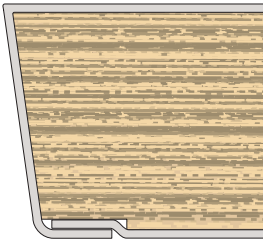
PSA rated steel encapsulated/particle board construction, loose laid raised access floor panels.

### Feature Benefits

- High edge strength reducing edge to edge deflection
- Precision construction and location for an accurate floor grid
- Solid underfoot
- Steel wrap round design ensures excellent electrical continuity is maintained
- Good acoustic performance
- Safe and easy access
- Excellent lateral stability
- 600mm x 900mm oversize panels available in order to minimise perimeter cutting
- The system meets EN13501 Parts 1 & 2 and also its construction provides Class O to BS476 fire rating



### Corner Detail



### Typical Areas of Application

General office areas, light, medium and heavy use.

### Description

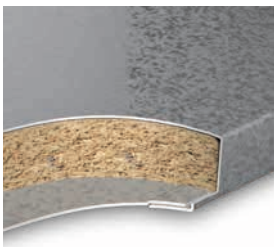
This loose laid floor panel range is fully rated to the PSA MOB PF2 PS/SPU light, medium and heavy grade requirements.

The design incorporates a unique wrap-around construction which makes panel removal and replacement easy. This design also improves panel edge strength and accessibility.

Available with a wide range of factory accessories and applied finishes this panel construction is at the heart of the range of raised floor systems available from Kingspan Access Floors.

The RG series of panels is world renowned for its exceptional characteristics of strength and durability.

### Panel Illustration



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>RLG600</b> , light grade	31mm	31kg/m <sup>2</sup>
<b>RMG600</b> , medium grade	31mm	36kg/m <sup>2</sup>
<b>DRF600</b> , heavy grade	32mm	44kg/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 top sheet that is wrapped around and laminated to the particle board core. This is then mechanically stitched to the bottom steel sheet for greater strength and to provide full electrical continuity of the system.

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

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### Structural Performance

Panel Grade	Panel Type	Concentrated Load		Uniformly Distributed Load
		Point Load 25mm x 25mm square	Load Over 300mm x 300mm square	Min PSA Requirement
Light	RLG600	1.5kN	2.7kN	6.7kN/m <sup>2</sup>
Medium	RMG600	3.0kN	4.5kN	8.0kN/m <sup>2</sup>
Heavy	DRF600	4.5kN	N/A	12kN/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 these working loads each raised floor system performs to a safety factor of 3 x static load.
- Finished floor heights from 55mm to 1200mm are available using standard pedestals. For heights outside of this range alternative pedestals are available.
- Extra Heavy Grade to the requirements of PSA MOB PF2 PS/SPU is available using DRF600 heavy grade with bolt on stringers.
- Structural performance based upon a full Kingspan system ie panels & pedestals.

### Special Applications

Acoustic Performance	Airborne sound insulation rating in the range of 39-41dB, impact sound insulation rating in the range of 71-74dB. These are indicative laboratory figures for the bare panel only with no barrier in the void. These ratings are determined according to BS EN 717-2 1997. The tests were carried out in accordance with BS EN 140-3 and BS EN 140-12.
Air Seals	Used to minimise air leakage through raised floor, air leakage of 0.44litres/sec/m <sup>2</sup> at a pressure of 25Pa. This is an indicative figure only based upon laboratory testing.
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 condition of the sub floor requires additional fixings.
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 7671-2008, 17th 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.
Simploc	Factory applied variation to allow panels to be screw fixed to pedestals.
Stringers	<i>Clip in:-</i> provide additional lateral stability at increased floor heights. <i>Bolt on:-</i> provide additional lateral stability and increased load bearing properties.