

KINGSPAN ACCESS FLOORS LIMITED
PSA SPECIFICATION
RMG600 MEDIUM GRADE, 55MM - 600MM FFH

Raised Access Floors. PSA SAMPLE SPECIFICATION

1. RAISED ACCESS FLOOR TO	General office areas.
Drawing reference(s):	<i>Specify applicable drawing references</i>
Sub-Floor:	In-situ concrete finished to a fine to medium tamp finish
Preparation:	Apply sealer as clause 12
Flooring system:	RMG600 gravity lay fully removable and interchangeable steel encapsulated chipboard core panels. Panel dimensions are 600 mm square with a thickness of 31mm. These panels are supported on Alpha V all steel fully adjustable pedestals complete with retaining lug and anti vibration cap. This raised floor system is fully compliant with the medium grade requirements of the PSA MOB PF2 PS/SPU specification. Installed mass of system; 36kg/m ² .
Manufacturer and reference:	Kingspan Access Floors Ltd Tel: 01482-781701.
Finished floor height above sub-floor (nominal):	<i>Specify as appropriate.</i>
Floor finish(es):	Carpet tiles as specified in elsewhere, supplied and fitted by others.
Accessories:	<i>Specify as appropriate</i>
Other requirements:	Oversize panels can be used at perimeters as necessary in order to maintain minimum cut panel size. <i>Specify as appropriate</i>

GENERAL / PERFORMANCE

2. GENERAL PERFORMANCE:

Completed installation; Clean and stable, free from bounce and vibration.

3. STRUCTURAL PERFORMANCE:

- Static Loads:
 - Uniformly distributed load; 8kN/m²
 - Concentrated Load; 3.0kN to comply with MOB PF2 PS/SPU.
 - Area of load; 25 x 25mm
 - Deflection (maximum); 2.4mm
 - Safety Factor; 3
- Dynamic Loading
 - Absorption of hard body impacts; as required by MOB PF2 PS/SPU
 - Absorption of soft body impacts; as required by MOB PF2 PS/SPU
 - Rolling loads; not required.

4. FIRE PERFORMANCE:

- Reaction to fire; As required by MOB PF2 PS/SPU
 - Standard: BS 476-7
 - Class: 0
- Resistance to fire; As required by MOB PF2 PS/SPU
 - Standard: BS 476-6
 - Period of resistance: Fire propagation index less than 12 and sub index less than 6.

5. SOUND TRANSMISSION:

- Laboratory system test: In accordance with BS EN ISO 140-12.
 - Airborne sound insulation: 41dB
 - Impact sound insulation: 71dB
 - Test report:.

COMPONENTS

6. SAMPLES:

- General: Submit representative samples of the following;
 - RMG600 floor panel and Alpha V pedestal of appropriate height.
 - Purpose: Client approval.

7. FLOOR PANELS: To general office areas.

- Panel size: 600 x 600mm
- Tolerances: To MOB PF2 PS/SPU
- Life expectancy, excluding coverings (minimum): 25 years
- Casing material: Steel
 - Casing finish: Galvanised
- Core material: High density particle board
- Weight of removable panels: 10kgs approx
- Floor panel fixing: Gravity lay
- Floor panel location method: Positive

8. PEDESTALS: To general office areas.

- Life expectancy, excluding coverings (minimum): 50 years
- Pedestal fixing; Kingspan pedestal adhesive.
- Adhesive fixing:
 - Selection of test specimens: In line with T42 requirements
 - T42 Test results: Submit
 - Adhesive: Compatible with subfloor finishing
- Adjustability:
 - Limits on adjustability; Vertical adjustment of pedestal head.
 - Locking: Required.
- Additional pedestals: At door thresholds, columns and other cut panel edges as applicable.
- Pedestal materials: Zinc plated steel construction.

INSTALLATION

9. CONTROL SAMPLES

- General: Complete areas of finished work in the following locations...

10. PREPARATION

- Cleanliness: Clean before installation and keep clean during installation.
- Setting out: Before installation of services, indelibly mark pedestal positions if required.
- Fixtures: Before installation, complete fixtures which floor panels are to be cut around or which supports are to bridge.
- Bridging structures - supplementary supports;

11. ENVIRONMENTAL CONDITIONS

- General:
 - Dry, well ventilated, not subject to extremes of temperature or humidity, and free from rapid variations of temperature or humidity
 - RH of air (maximum): 75%
 - RH of surrounding walls (maximum): 75%
- Subfloors:
 - RH (maximum): 75%. Test to BS 8201 using an accurately calibrated hygrometer.
 - Temperature (minimum): 5⁰C

12. DUST PROOFING

- Sealer: XP 2640/1 colour tinted PVA dust sealer. This is compatible with the pedestal adhesive.
- Sealing:
 - Extent.....
 - Preparation: Surfaces to be sealed must be clean, dry and free from dust, grease and other contaminants.
 - Number of coats: Two.
 - First coat: Apply before pedestals are erected.
 - Second coat: Different to first coat. Apply after completion of services and other associated work.

13.CUT FLOOR PANELS

- Size (minimum): 150mm width.
- Burrs and rough edges: Make smooth.
- Edge sealer: Class O spread of flame rated aluminium foil self adhesive tape.
- Edge sealing: Seal all exposed edges of cut floor panels.

14.RAISED ACCESS FLOOR LEVELS

- Permissible deviations in level:
 - Overall set length: +/- 1.5mm over 5m.
 - Overall: +/- 6mm.

15.PERIMETERS

- Expansion gaps:
 - Size: 10mm.
 - Location: At abutments
- Expansion gap filling:
 - Filler type: Resilient closed cell
 - Filling: Before fixing skirtings and cover strips

16.CAVITY BARRIERS

- Construction:
 - Material
 - Fire resistance to BS 476-20: 30 minutes.
- Performance: Permanently stable, continuous, and an effective barrier to smoke and flame.
- Distribution:
 - Centres (maximum): 20 metres.
 - Subdivided areas (maximum); 64m²
- Fixing: Fix securely to subfloor, at joints and as necessary.
- Gaps between cavity barriers and other elements: Seal with mineral wool or other suitable material.
- Fire stopping: give notice when fire stopping is complete.

17. LEVEL CHANGES

- Ramps and steps:
 - Performance: Match performance of associated raised access floor.
 - Proposals: Submit details.
- Balustrade structural and safety requirements: To BS 6180.

18. ELECTRICAL CONTINUITY AND EARTH BONDING

- Substantial metal parts of raised access floor: Electrically continuous and fully earth bonded.
 - Standard: To BS 7671.
 - Bonding methods: Panel and pedestal assembly provide complete electrical continuity.
 - Earthing methods: Pedestals can be fitted with earthing studs for earthing purposes.
- Rooms used for housing electronic data processing equipment:
- Earth bonding connection points: Determine number and location.
- Total resistance of earth fault loop (maximum); Resistance required to operate earth fault protection devices to BS 7671
- Electrical continuity and earth bonding tests:
 - General: Test complete raised access floor.
 - Points for testing: Randomly selected pedestals, stringers, tops and bottoms of floor panels.

COMPLETION

19. TOOLS

- Floor panel lifting devices: At completion, supply one set of suitable devices for each type of raised access floor installed. Train designated personnel in their use.

20. USER INSTRUCTIONS

- Manual contents: Include the following:
 - Correct method for lifting and replacing floor panels and stringers.
 - Servicing: Limitations on sequence, number and positions of floor panels and stringers that can be removed safely at one time.
 - Permissible loads: With guidance on use of spreader plates when shifting heavy equipment and subsequent maintenance.
 - Methods for installing cabling and ducts, to prevent damage to supporting structure.
 - Cleaning methods: For floor panels and integral finishes.
 - Floor panel covering renewal: Method for replacement of integral floor panel coverings.
 - Pedestal adjustment and locking.

- Maintenance: Recommended methods and frequency. Minimum maintenance-free life of raised access floor system. Minimum maintenance-free life of replaceable parts where this differs from that of the whole system. Minimum period during which replaceable components will be available.
- Installation instructions, including COSHH Assessment.

21. SPARES

- o General: At completion, supply the following:
 - RMG600 floor panels.....number.
 - Alpha V pedestals.....number.

22. CLEANING

- o Subfloors: At completion thoroughly clean accessible areas of subfloors and leave free of dust and debris.
- o Raised access floor: Before delivery of items carried by floor clean thoroughly.