

RMF Intercell

**NBS Specification
2013**

K41

**inter
cell**

Interface FLOR

InterfaceFLOR BV.

K41 Specification 40mm, 60mm, 80mm, 90mm and 110mm

K41 Raised access floors

To be read with Preliminaries/ General conditions.

TYPES OF RAISED ACCESS FLOOR

130 INTERCELL RAISED ACCESS FLOOR

- Manufacturer: Interface Europe Ltd., Shelf Mills, Shelf, Halifax, West Yorkshire HX3 7PA
Tel: 08705 304030,
Fax: 01274 698300,
Email: enquiries@eu.interfaceflor.eu
Web: www.interfaceflor.eu.

Supplier and Installer:
RMF Installation and Services Ltd
Tel: 01926 425289
Email: info@rmf-services.co.uk
Web: www.rmf-services.co.uk

Product reference: Intercell Raised Access Flooring System..

- Subfloor: Existing concrete slab.
 - Preparation: Floor to be thoroughly swept to remove all dust and debris.
- Floor panels: 500 x 500 mm.
 - Accessibility: Full access.
- Pedestal fixing: Adhesive.
- Structural grade: PSA - Medium grade ; EN 12825 – 4B
- Installed mass of system (maximum): 22.5 kg/m².
- Height:
 - Finished raised access floor height above subfloor: 60mm.
 - Under-floor void height: 58mm.
- Floor covering: Loose laid carpet tiles as section M50.
- Accessories: Edge Rails
Access plates and covers
Ramps
Acoustic Barriers
Fire Barriers
Junction box for power and data.

GENERAL/ PERFORMANCE

219 GENERAL PERFORMANCE

- Completed installation: Clean and stable. Free from bounce and vibration. No lipping between floor panels.

223 STRUCTURAL PERFORMANCE

- Static loads:
 - Uniform distributed loads: 4800 kg
 - Concentrated loads:
Location: between two pedestals .
Load: 1000kg.
Area of load: 50mm x 50mm
 - Point loads:
Location: between two pedestals
Load: 300 kg
Area of load: 25mm x 25mm
 - Deflection (maximum): 2.5mm
 - Safety factor: 3
- Dynamic loading:
 - Absorption of hard body impacts: pass

234 FIRE PERFORMANCE

- Reaction to fire:
 - Standard: EN13501-1 / ISO11925+ISO9239
 - Class: Afl- s1
- Resistance to fire:
 - Standard: PSA T20.00 (UK CERAM)
 - Period of resistance: 30min.

239 SOUND TRANSMISSION

- Laboratory system test: In accordance with BS EN ISO 140-12.
 - Airborne sound insulation : Hor – 53dB
 - Impact sound insulation : Hor – 46dB
- Test report: Submit.

COMPONENTS

310 SAMPLES

- General: Submit representative samples of the following: Floor panels with cable management accessories .
 - Purpose: Quality standard .

322 PEDESTAL ADHESIVE

- General: Compatible with subfloor finishing.

325 STRINGERS : NA

- Type: N.A.
- Removable stringers: N.A.
- Life expectancy (minimum): 50 years.
- Materials: N.A.

335 ACCESSORIES :

- Service outlet boxes: Mita
 - Type: Several
 - Rate:
 - Size (length x width):
 - Number of power outlets per box:
 - Number of data outlets per box:
 - Number of phone outlets per box:
 - Number of ports per box:
 - Installation: Drop-in.
 - Lids:
 - Frames:
 - Structural capacity:
- Air handling accessories:
 - NA
- Level change accessories:
 - Ramps
 - Types : 1 : 12 and 5%
: 40mm, 60mm, 80mm, 90mm, 110mm
 - Sizes : (length x width x height)
: 480mm x 100mm x 40mm
: 720mm x 100mm x 60mm
: 960mm x 100mm x 80mm
: 1080mm x 100mm x 90mm
: 1330mm x 100mm x 110mm
 - Material : 3mm Galvanised steel
 - Lids : 2 with 40mm, 1 : 12
: 3 with 60mm, 1 : 12
: 5 with 60mm, 5%
: 4 with 80mm, 1 : 12
: 4 with 90mm, 1 : 12
: 8 with 90mm, 5%
: 5 with 110mm, 1 : 12
 - Weight : 40mm - 16.5 kg
: 60mm - 21.0 kg
: 90mm - 32.0 kg
: 110mm - 41.0 kg
- Other accessories:

INSTALLATION

410 CONTROL SAMPLES

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

420 EXISTING BASES

- Notification: Before commencing work, confirm that existing bases will, after preparation, be suitable to receive coverings.
- Suitability of bases and conditions within any area:
Commencement of laying of raised floor will be taken as acceptance of suitability.

421 PREPARATION

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

425 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): 5°C.

430 NEW WET LAID BASES

- Base drying aids: Not used for at least four days prior to moisture content testing.
- Base moisture content test: Carry out in accordance with BS 5325, Annex A or BS 8203, Annex A.
 - Locations for readings: In all corners, along edges, and at various points over area being tested.
- Commencement of laying coverings: Not until all readings show 75% relative humidity or less.

431 DUSTPROOFING

- Sealer: Colour tinted. Recommended by raised access floor manufacturer. Compatible with materials used to pack and/ or fix pedestals.
- Sealing:
 - Extent: : N.A.
 - 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 tint to first coat. Apply after completion of services and other associated work.

433 PEDESTAL ADHESIVE TESTING

- Test method: : N.A..
- Selection of test specimens: : N.A.
- Test results: submit.

- 435 CUT FLOOR PANELS
- Size (minimum): Half full width x half full length.
 - Burrs and rough edges: Make smooth.
 - Edge sealer: Class 0 spread of flame rated aluminium foil self adhesive tape.
 - Edge sealing: Seal exposed cut edges of floor panels that have moisture sensitive or combustible cores.
- 440 SUBSTRATES TO RECEIVE THIN COVERINGS
- Trowelled finishes: Uniform, smooth surface free from trowel marks and other blemishes.
- 441 RAISED ACCESS FLOOR LEVELS
- Permissible deviations in level:
 - Over set length: _____ .
 - Overall: _____ .
- 442 SMOOTHING/ LEVELLING UNDERLAYMENT COMPOUND
- Manufacturer: : N.A.
 - Product reference: : N.A..
- 443 EXISTING FLOOR COVERINGS REMOVED
- Substrate: Clear of covering and as much adhesive as possible. Skim with smoothing underlayment compound to give smooth, even surface.
- 446 PERIMETERS
- Expansion gaps:
 - Size: 3 mm.
 - Location: At abutments.
 - Expansion gap filling:
 - Filler type: Resilient closed cell.
 - Filling: Before fixing skirtings and cover strips.
- 451 CAVITY BARRIERS
- Construction:
 - Material: Submit proposals . (Stonewool)
 - Fire resistance to BS 476-20:
Integrity/ insulation (minutes):30 min. (UK Ceram test
 - Performance: Permanently stable, continuous, and an effective barrier to smoke and flame.
 - Distribution:
 - Centres (maximum): 20m .
 - Subdivided areas (maximum): _____ .
 - Fixing: Fix securely to subfloor, at joints and as necessary.
 - Floor panels: Firmly secure floor panels above cavity barriers.
 - Gaps between cavity barriers and other elements: Seal with mineral wool or other suitable material.
 - Fire stopping: Give notice when fire stopping is complete.
- 455 LEVEL CHANGES
- Ramps and steps:
 - Performance: Match performance of associated raised access floor.
 - Proposals: Submit details.
 - Balustrade structural and safety requirements: To BS 6180.

465 ELECTRICAL CONTINUITY AND EARTH BONDING

- Substantial metal parts of raised access floor: Electrically continuous and fully earth bonded.
 - Standard: To BS 7671.
 - Bonding methods: Submit proposals.
 - Earthing methods: Submit proposals.
- Rooms used for electronic data processing equipment: _____ .
- Earth bonding connection points: Determine number and location. Provide connectors.
- 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.

470 INTEGRAL FINISHES ELECTRICAL RESISTANCE TESTS

- General: Test complete raised access floor.
 - Location: _____ .
- Testing agent: Qualified electrician.

COMPLETION

510 TOOLS

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

515 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.

520 SPARES

- General: At completion, supply the following: 2% of K41/130.

525 CLEANING

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

