

Linfloor Floors, Inc.
K41 Specification
WP800B Access Floor Panel
Rigid Grid Understructure 300mm

K41 RAISED ACCESS FLOORS

To be read with Preliminaries/ General conditions.

TYPES OF RAISED ACCESS FLOOR

130

RAISED ACCESS FLOOR

- Manufacturer: Linfloor Floors, Inc.
- Product reference: linfloor WP System.
- Subfloor: Existing concrete slab.
Preparation: Existing concrete slab.
- Floor panels: 600 x 600 mm.
Accessibility: Full access.
- Pedestal fixing: Adhesive
- Structural grade: PSA - Medium grade ; EN 12825 – 5B
- Installed mass of system (maximum): 40 kg/m².
- Height:
Finished raised access floor height above subfloor: 300mm.
Under-floor void height: 260mm.
- Floor covering: Loose laid carpet tiles as section M50.
- Accessories:
 - Edge Rails
 - Access plates and covers
 - Ramps
 - 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: 8kn/m²
 - Concentrated loads:
 - Location: between two pedestals
 - Load: 300 kg
 - Area of load: 25mm x 25mm
 - Deflection (maximum): 2.5mm
 - Safety factor: 3
- Dynamic loads:
 - Absorption of hard body impacts: pass
 - Absorption of soft body impacts: pass

234

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.

COMPONENTS

310 SAMPLES

- General: Submit representative samples of the following:
 - WP800B floor panel and Rigid Grid Understructure of appropriate height.
 - Purpose: Client approval.

315 FLOOR PANELS To general office areas.

- Panel size: 600 x 600mm
- Tolerances: To MOB PF2 PS/SPU
- Life expectancy, excluding coverings (minimum): 25 years
- Bottom material: Steel
- Core material: Woodcore
- Top finish: Steel
- Edge: PVC edge strip
- Weight of removable panels: 12.5kgs approx
- Floor panel fixing: Rigid Grid
- Floor panel location method: Positive.

320 PEDESTALS: To general office areas.

- Life expectancy, excluding coverings (minimum): 50 years
- Pedestal fixing; 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: hot galvanized steel construction.

325 STRINGERS: To general office areas.

- Life expectancy, excluding coverings (minimum): 50 years
- Stringer length: 600mm
- Stringer materials: hot galvanized steel construction.

INSTALLATION

410 CONTROL SAMPLES

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

421 PREPARATION

- Cleanliness: Clean before installation and keep clean during installation.
- Setting out: Before installation of services, indelibly mark pedestal positions.

- Fixtures: Before installation of service, 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.

431 DUSTPROOFING

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

435 CUT FLOOR PANELS

- Size (minimum): 150mm width.
- 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.

441 RAISED ACCESS FLOOR LEVELS

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

445 PERIMETERS

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

451 CAVITY BARRIERS

- Construction:
 - Material:
 - Fire resistance to BS 47620: 30 minutes.
- Performance: Permanently stable, continuous, and an effective barrier to smoke and flame.
- Distribution:
 - Centres (maximum): 20 metres.
 - Subdivided areas (maximum): 64 m².
- 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.

460 UNDER-FLOOR PLENUM AIR BARRIERS

- Material: Rigid or semirigid nonporous sheets with smooth nondusting surfaces.
- Performance: Permanently stable, continuous and airtight.
- Fixing: Fix securely to subfloor, at joints and as necessary.
- Edges and joints: Seal.

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 operated 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 RESISITANCE 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.

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:
 - Floor panels.....number.
 - Pedestals.....number.

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.

Linfloor Floors, Inc.
K41 Specification
WP1000B Access Floor Panel
Rigid Grid Understructure 300mm

K41 RAISED ACCESS FLOORS

To be read with Preliminaries/ General conditions.

TYPES OF RAISED ACCESS FLOOR

130

RAISED ACCESS FLOOR

- Manufacturer: Linfloor Floors, Inc.
- Product reference: linfloor WP System.
- Subfloor: Existing concrete slab.
Preparation: Existing concrete slab.
- Floor panels: 600 x 600 mm.
Accessibility: Full access.
- Pedestal fixing: Adhesive
- Structural grade: PSA - Heavy grade ; EN 12825 – 5A
- Installed mass of system (maximum): 42 kg/m².
- Height:
Finished raised access floor height above subfloor: 300mm.
Under-floor void height: 260mm.
- Floor covering: Loose laid carpet tiles as section M50.
- Accessories:
 - Edge Rails
 - Access plates and covers
 - Ramps
 - 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: 12kn/m²
 - Concentrated loads:
 - Location: between two pedestals
 - Load: 450 kg
 - Area of load: 25mm x 25mm
 - Deflection (maximum): 2.5mm
 - Safety factor: 3
- Dynamic loads:
 - Absorption of hard body impacts: pass
 - Absorption of soft body impacts: pass

234

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.

COMPONENTS

310 SAMPLES

- General: Submit representative samples of the following:
 - WP1000B floor panel and Rigid Grid Understructure of appropriate height.
 - Purpose: Client approval.

315 FLOOR PANELS To general office areas.

- Panel size: 600 x 600mm
- Tolerances: To MOB PF2 PS/SPU
- Life expectancy, excluding coverings (minimum): 25 years
- Bottom material: Steel
- Core material: Woodcore
- Top finish: Steel
- Edge: PVC edge strip
- Weight of removable panels: 13.0 kgs approx
- Floor panel fixing: Rigid Grid
- Floor panel location method: Positive.

320 PEDESTALS: To general office areas.

- Life expectancy, excluding coverings (minimum): 50 years
- Pedestal fixing; 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: hot galvanized steel construction.

325 STRINGERS: To general office areas.

- Life expectancy, excluding coverings (minimum): 50 years
- Stringer length: 600mm
- Stringer materials: hot galvanized steel construction.

INSTALLATION

410 CONTROL SAMPLES

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

421 PREPARATION

- Cleanliness: Clean before installation and keep clean during installation.
- Setting out: Before installation of services, indelibly mark pedestal positions.

- Fixtures: Before installation of service, 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.

431 DUSTPROOFING

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

435 CUT FLOOR PANELS

- Size (minimum): 150mm width.
- 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.

441 RAISED ACCESS FLOOR LEVELS

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

445 PERIMETERS

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

451 CAVITY BARRIERS

- Construction:
 - Material:
 - Fire resistance to BS 47620: 30 minutes.
- Performance: Permanently stable, continuous, and an effective barrier to smoke and flame.
- Distribution:
 - Centres (maximum): 20 metres.
 - Subdivided areas (maximum): 64 m².
- 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.

460 UNDER-FLOOR PLENUM AIR BARRIERS

- Material: Rigid or semirigid nonporous sheets with smooth nondusting surfaces.
- Performance: Permanently stable, continuous and airtight.
- Fixing: Fix securely to subfloor, at joints and as necessary.
- Edges and joints: Seal.

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 operated 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 RESISITANCE 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.

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:
 - Floor panels.....number.
 - Pedestals.....number.

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.

Linfloor Floors, Inc.
K41 Specification
WP1250B Access Floor Panel
Rigid Grid Understructure 300mm

K41 RAISED ACCESS FLOORS

To be read with Preliminaries/ General conditions.

TYPES OF RAISED ACCESS FLOOR

130

RAISED ACCESS FLOOR

- Manufacturer: Linfloor Floors, Inc.
- Product reference: linfloor WP System.
- Subfloor: Existing concrete slab.
Preparation: Existing concrete slab.
- Floor panels: 600 x 600 mm.
Accessibility: Full access.
- Pedestal fixing: Adhesive
- Structural grade: PSA – Extra Heavy grade ; EN 12825 – 6A
- Installed mass of system (maximum): 44 kg/m².
- Height:
Finished raised access floor height above subfloor: 300mm.
Under-floor void height: 260mm.
- Floor covering: Loose laid carpet tiles as section M50.
- Accessories:
 - Edge Rails
 - Access plates and covers
 - Ramps
 - 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: 12kn/m²
 - Concentrated loads:
 - Location: between two pedestals
 - Load: 550 kg
 - Area of load: 25mm x 25mm
 - Deflection (maximum): 2.5mm
 - Safety factor: 3
- Dynamic loads:
 - Absorption of hard body impacts: pass
 - Absorption of soft body impacts: pass

234

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.

COMPONENTS

310 SAMPLES

- General: Submit representative samples of the following:
 - WP1250B floor panel and Rigid Grid Understructure of appropriate height.
 - Purpose: Client approval.

315 FLOOR PANELS To general office areas.

- Panel size: 600 x 600mm
- Tolerances: To MOB PF2 PS/SPU
- Life expectancy, excluding coverings (minimum): 25 years
- Bottom material: Steel
- Core material: Woodcore
- Top finish: Steel
- Edge: PVC edge strip
- Weight of removable panels: 13.5 kgs approx
- Floor panel fixing: Rigid Grid
- Floor panel location method: Positive.

320 PEDESTALS: To general office areas.

- Life expectancy, excluding coverings (minimum): 50 years
- Pedestal fixing; 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: hot galvanized steel construction.

325 STRINGERS: To general office areas.

- Life expectancy, excluding coverings (minimum): 50 years
- Stringer length: 600mm
- Stringer materials: hot galvanized steel construction.

INSTALLATION

410 CONTROL SAMPLES

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

421 PREPARATION

- Cleanliness: Clean before installation and keep clean during installation.
- Setting out: Before installation of services, indelibly mark pedestal positions.

- Fixtures: Before installation of service, 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.

431 DUSTPROOFING

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

435 CUT FLOOR PANELS

- Size (minimum): 150mm width.
- 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.

441 RAISED ACCESS FLOOR LEVELS

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

445 PERIMETERS

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

451 CAVITY BARRIERS

- Construction:
 - Material:
 - Fire resistance to BS 47620: 30 minutes.
- Performance: Permanently stable, continuous, and an effective barrier to smoke and flame.
- Distribution:
 - Centres (maximum): 20 metres.
 - Subdivided areas (maximum): 64 m².
- 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.

460 UNDER-FLOOR PLENUM AIR BARRIERS

- Material: Rigid or semirigid nonporous sheets with smooth nondusting surfaces.
- Performance: Permanently stable, continuous and airtight.
- Fixing: Fix securely to subfloor, at joints and as necessary.
- Edges and joints: Seal.

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 operated 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 RESISITANCE 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.

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:
 - Floor panels.....number.
 - Pedestals.....number.

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.

Linfloor Floors, Inc.
K41 Specification
WP800H Access Floor Panel
Rigid Grid Understructure 300mm

K41 RAISED ACCESS FLOORS

To be read with Preliminaries/ General conditions.

TYPES OF RAISED ACCESS FLOOR

130

RAISED ACCESS FLOOR

- Manufacturer: Linfloor Floors, Inc.
- Product reference: linfloor WP System.
- Subfloor: Existing concrete slab.
Preparation: Existing concrete slab.
- Floor panels: 600 x 600 mm.
Accessibility: Full access.
- Pedestal fixing: Adhesive
- Structural grade: PSA - Medium grade ; EN 12825 – 5B
- Installed mass of system (maximum): 40 kg/m².
- Height:
Finished raised access floor height above subfloor: 300mm.
Under-floor void height: 260mm.
- Floor covering: Loose laid carpet tiles as section M50.
- Accessories:
 - Edge Rails
 - Access plates and covers
 - Ramps
 - 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: 8kn/m²
 - Concentrated loads:
 - Location: between two pedestals
 - Load: 300 kg
 - Area of load: 25mm x 25mm
 - Deflection (maximum): 2.5mm
 - Safety factor: 3
- Dynamic loads:
 - Absorption of hard body impacts: pass
 - Absorption of soft body impacts: pass

234

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.

COMPONENTS

310 SAMPLES

- General: Submit representative samples of the following:
 - WP800H floor panel and Rigid Grid Understructure of appropriate height.
 - Purpose: Client approval.

315 FLOOR PANELS To data center areas.

- Panel size: 600 x 600mm
- Tolerances: To MOB PF2 PS/SPU
- Life expectancy, excluding coverings (minimum): 25 years
- Bottom material: Steel
- Core material: Woodcore
- Top finish: High pressure laminate
- Edge: PVC edge strip
- Weight of removable panels: 12.5kgs approx
- Floor panel fixing: Rigid Grid
- Floor panel location method: Positive.

320 PEDESTALS: To data center areas.

- Life expectancy, excluding coverings (minimum): 50 years
- Pedestal fixing; 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: hot galvanized steel construction.

325 STRINGERS: To data center areas.

- Life expectancy, excluding coverings (minimum): 50 years
- Stringer length: 600mm
- Stringer materials: hot galvanized steel construction.

INSTALLATION

410 CONTROL SAMPLES

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

421 PREPARATION

- Cleanliness: Clean before installation and keep clean during installation.
- Setting out: Before installation of services, indelibly mark pedestal positions.

- Fixtures: Before installation of service, 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.

431 DUSTPROOFING

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

435 CUT FLOOR PANELS

- Size (minimum): 150mm width.
- 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.

441 RAISED ACCESS FLOOR LEVELS

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

445 PERIMETERS

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

451 CAVITY BARRIERS

- Construction:
 - Material:
 - Fire resistance to BS 47620: 30 minutes.
- Performance: Permanently stable, continuous, and an effective barrier to smoke and flame.
- Distribution:
 - Centres (maximum): 20 metres.
 - Subdivided areas (maximum): 64 m².
- 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.

460 UNDER-FLOOR PLENUM AIR BARRIERS

- Material: Rigid or semirigid nonporous sheets with smooth nondusting surfaces.
- Performance: Permanently stable, continuous and airtight.
- Fixing: Fix securely to subfloor, at joints and as necessary.
- Edges and joints: Seal.

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 operated 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 RESISITANCE 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.

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:
 - Floor panels.....number.
 - Pedestals.....number.

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.

Linfloor Floors, Inc.
K41 Specification
WP1000H Access Floor Panel
Rigid Grid Understructure 300mm

K41 RAISED ACCESS FLOORS

To be read with Preliminaries/ General conditions.

TYPES OF RAISED ACCESS FLOOR

130

RAISED ACCESS FLOOR

- Manufacturer: Linfloor Floors, Inc.
- Product reference: linfloor WP System.
- Subfloor: Existing concrete slab.
Preparation: Existing concrete slab.
- Floor panels: 600 x 600 mm.
Accessibility: Full access.
- Pedestal fixing: Adhesive
- Structural grade: PSA - Heavy grade ; EN 12825 – 5A
- Installed mass of system (maximum): 42kg/m².
- Height:
Finished raised access floor height above subfloor: 300mm.
Under-floor void height: 260mm.
- Floor covering: Loose laid carpet tiles as section M50.
- Accessories:
 - Edge Rails
 - Access plates and covers
 - Ramps
 - 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: 12kn/m²
 - Concentrated loads:
 - Location: between two pedestals
 - Load: 450 kg
 - Area of load: 25mm x 25mm
 - Deflection (maximum): 2.5mm
 - Safety factor: 3
- Dynamic loads:
 - Absorption of hard body impacts: pass
 - Absorption of soft body impacts: pass

234

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.

COMPONENTS

310 SAMPLES

- General: Submit representative samples of the following:
 - WP1000H floor panel and Rigid Grid Understructure of appropriate height.
 - Purpose: Client approval.

315 FLOOR PANELS To data center areas.

- Panel size: 600 x 600mm
- Tolerances: To MOB PF2 PS/SPU
- Life expectancy, excluding coverings (minimum): 25 years
- Bottom material: Steel
- Core material: Woodcore
- Top finish: High pressure laminate
- Edge: PVC edge strip
- Weight of removable panels: 13.0 kgs approx
- Floor panel fixing: Rigid Grid
- Floor panel location method: Positive.

320 PEDESTALS: To data center areas.

- Life expectancy, excluding coverings (minimum): 50 years
- Pedestal fixing; 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: hot galvanized steel construction.

325 STRINGERS: To data center areas.

- Life expectancy, excluding coverings (minimum): 50 years
- Stringer length: 600mm
- Stringer materials: hot galvanized steel construction.

INSTALLATION

410 CONTROL SAMPLES

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

421 PREPARATION

- Cleanliness: Clean before installation and keep clean during installation.
- Setting out: Before installation of services, indelibly mark pedestal positions.

- Fixtures: Before installation of service, 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.

431 DUSTPROOFING

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

435 CUT FLOOR PANELS

- Size (minimum): 150mm width.
- 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.

441 RAISED ACCESS FLOOR LEVELS

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

445 PERIMETERS

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

451 CAVITY BARRIERS

- Construction:
 - Material:
 - Fire resistance to BS 47620: 30 minutes.
- Performance: Permanently stable, continuous, and an effective barrier to smoke and flame.
- Distribution:
 - Centres (maximum): 20 metres.
 - Subdivided areas (maximum): 64 m².
- 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.

460 UNDER-FLOOR PLENUM AIR BARRIERS

- Material: Rigid or semirigid nonporous sheets with smooth nondusting surfaces.
- Performance: Permanently stable, continuous and airtight.
- Fixing: Fix securely to subfloor, at joints and as necessary.
- Edges and joints: Seal.

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 operated 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 RESISITANCE 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.

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:
 - Floor panels.....number.
 - Pedestals.....number.

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.

Linfloor Floors, Inc.
K41 Specification
WP1250H Access Floor Panel
Rigid Grid Understructure 300mm

K41 RAISED ACCESS FLOORS

To be read with Preliminaries/ General conditions.

TYPES OF RAISED ACCESS FLOOR

130

RAISED ACCESS FLOOR

- Manufacturer: Linfloor Floors, Inc.
- Product reference: linfloor WP System.
- Subfloor: Existing concrete slab.
Preparation: Existing concrete slab.
- Floor panels: 600 x 600 mm.
Accessibility: Full access.
- Pedestal fixing: Adhesive
- Structural grade: PSA – Extra Heavy grade ; EN 12825 – 6A
- Installed mass of system (maximum): 44 kg/m².
- Height:
Finished raised access floor height above subfloor: 300mm.
Under-floor void height: 260mm.
- Floor covering: Loose laid carpet tiles as section M50.
- Accessories:
 - Edge Rails
 - Access plates and covers
 - Ramps
 - 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: 20kn/m²
 - Concentrated loads:
 - Location: between two pedestals
 - Load: 550 kg
 - Area of load: 25mm x 25mm
 - Deflection (maximum): 2.5mm
 - Safety factor: 3
- Dynamic loads:
 - Absorption of hard body impacts: pass
 - Absorption of soft body impacts: pass

234

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.

COMPONENTS

310 SAMPLES

- General: Submit representative samples of the following:
 - WP1250H floor panel and Rigid Grid Understructure of appropriate height.
 - Purpose: Client approval.

315 FLOOR PANELS To data center areas.

- Panel size: 600 x 600mm
- Tolerances: To MOB PF2 PS/SPU
- Life expectancy, excluding coverings (minimum): 25 years
- Bottom material: Steel
- Core material: Woodcore
- Top finish: High pressure laminate
- Edge: PVC edge strip
- Weight of removable panels: 13.5 kgs approx
- Floor panel fixing: Rigid Grid
- Floor panel location method: Positive.

320 PEDESTALS: To data center areas.

- Life expectancy, excluding coverings (minimum): 50 years
- Pedestal fixing; 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: hot galvanized steel construction.

325 STRINGERS: To data center areas.

- Life expectancy, excluding coverings (minimum): 50 years
- Stringer length: 600mm
- Stringer materials: hot galvanized steel construction.

INSTALLATION

410 CONTROL SAMPLES

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

421 PREPARATION

- Cleanliness: Clean before installation and keep clean during installation.
- Setting out: Before installation of services, indelibly mark pedestal positions.

- Fixtures: Before installation of service, 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.

431 DUSTPROOFING

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

435 CUT FLOOR PANELS

- Size (minimum): 150mm width.
- 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.

441 RAISED ACCESS FLOOR LEVELS

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

445 PERIMETERS

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

451 CAVITY BARRIERS

- Construction:
 - Material:
 - Fire resistance to BS 47620: 30 minutes.
- Performance: Permanently stable, continuous, and an effective barrier to smoke and flame.
- Distribution:
 - Centres (maximum): 20 metres.
 - Subdivided areas (maximum): 64 m².
- 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.

460 UNDER-FLOOR PLENUM AIR BARRIERS

- Material: Rigid or semirigid nonporous sheets with smooth nondusting surfaces.
- Performance: Permanently stable, continuous and airtight.
- Fixing: Fix securely to subfloor, at joints and as necessary.
- Edges and joints: Seal.

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 operated 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 RESISITANCE 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.

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:
 - Floor panels.....number.
 - Pedestals.....number.

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.

Linfloor Floors, Inc.
K41 Specification
WP800V Access Floor Panel
Rigid Grid Understructure 300mm

K41 RAISED ACCESS FLOORS

To be read with Preliminaries/ General conditions.

TYPES OF RAISED ACCESS FLOOR

130

RAISED ACCESS FLOOR

- Manufacturer: Linfloor Floors, Inc.
- Product reference: linfloor WP System.
- Subfloor: Existing concrete slab.
Preparation: Existing concrete slab.
- Floor panels: 600 x 600 mm.
Accessibility: Full access.
- Pedestal fixing: Adhesive
- Structural grade: PSA - Medium grade ; EN 12825 – 5B
- Installed mass of system (maximum): 40 kg/m².
- Height:
Finished raised access floor height above subfloor: 300mm.
Under-floor void height: 260mm.
- Floor covering: Loose laid carpet tiles as section M50.
- Accessories:
 - Edge Rails
 - Access plates and covers
 - Ramps
 - 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: 8kn/m²
 - Concentrated loads:
 - Location: between two pedestals
 - Load: 300 kg
 - Area of load: 25mm x 25mm
 - Deflection (maximum): 2.5mm
 - Safety factor: 3
- Dynamic loads:
 - Absorption of hard body impacts: pass
 - Absorption of soft body impacts: pass

234

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.

COMPONENTS

310 SAMPLES

- General: Submit representative samples of the following:
 - WP800V floor panel and Rigid Grid Understructure of appropriate height.
 - Purpose: Client approval.

315 FLOOR PANELS To data center areas.

- Panel size: 600 x 600mm
- Tolerances: To MOB PF2 PS/SPU
- Life expectancy, excluding coverings (minimum): 25 years
- Bottom material: Steel
- Core material: Woodcore
- Top finish: Vinyl tile
- Edge: PVC edge strip
- Weight of removable panels: 12.5kgs approx
- Floor panel fixing: Rigid Grid
- Floor panel location method: Positive.

320 PEDESTALS: To data center areas.

- Life expectancy, excluding coverings (minimum): 50 years
- Pedestal fixing; 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: hot galvanized steel construction.

325 STRINGERS: To data center areas.

- Life expectancy, excluding coverings (minimum): 50 years
- Stringer length: 600mm
- Stringer materials: hot galvanized steel construction.

INSTALLATION

410 CONTROL SAMPLES

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

421 PREPARATION

- Cleanliness: Clean before installation and keep clean during installation.
- Setting out: Before installation of services, indelibly mark pedestal positions.

- Fixtures: Before installation of service, 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.

431 DUSTPROOFING

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

435 CUT FLOOR PANELS

- Size (minimum): 150mm width.
- 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.

441 RAISED ACCESS FLOOR LEVELS

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

445 PERIMETERS

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

451 CAVITY BARRIERS

- Construction:
 - Material:
 - Fire resistance to BS 47620: 30 minutes.
- Performance: Permanently stable, continuous, and an effective barrier to smoke and flame.
- Distribution:
 - Centres (maximum): 20 metres.
 - Subdivided areas (maximum): 64 m².
- 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.

460 UNDER-FLOOR PLENUM AIR BARRIERS

- Material: Rigid or semirigid nonporous sheets with smooth nondusting surfaces.
- Performance: Permanently stable, continuous and airtight.
- Fixing: Fix securely to subfloor, at joints and as necessary.
- Edges and joints: Seal.

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 operated 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 RESISITANCE 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.

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:
 - Floor panels.....number.
 - Pedestals.....number.

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.

Linfloor Floors, Inc.
K41 Specification
WP1000V Access Floor Panel
Rigid Grid Understructure 300mm

K41 RAISED ACCESS FLOORS

To be read with Preliminaries/ General conditions.

TYPES OF RAISED ACCESS FLOOR

130

RAISED ACCESS FLOOR

- Manufacturer: Linfloor Floors, Inc.
- Product reference: linfloor WP System.
- Subfloor: Existing concrete slab.
Preparation: Existing concrete slab.
- Floor panels: 600 x 600 mm.
Accessibility: Full access.
- Pedestal fixing: Adhesive
- Structural grade: PSA - Heavy grade ; EN 12825 – 5A
- Installed mass of system (maximum): 42 kg/m².
- Height:
Finished raised access floor height above subfloor: 300mm.
Under-floor void height: 260mm.
- Floor covering: Loose laid carpet tiles as section M50.
- Accessories:
 - Edge Rails
 - Access plates and covers
 - Ramps
 - 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: 12kn/m²
 - Concentrated loads:
 - Location: between two pedestals
 - Load: 450 kg
 - Area of load: 25mm x 25mm
 - Deflection (maximum): 2.5mm
 - Safety factor: 3
- Dynamic loads:
 - Absorption of hard body impacts: pass
 - Absorption of soft body impacts: pass

234

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.

COMPONENTS

310 SAMPLES

- General: Submit representative samples of the following:
 - WP1000V floor panel and Rigid Grid Understructure of appropriate height.
 - Purpose: Client approval.

315 FLOOR PANELS To data center areas.

- Panel size: 600 x 600mm
- Tolerances: To MOB PF2 PS/SPU
- Life expectancy, excluding coverings (minimum): 25 years
- Bottom material: Steel
- Core material: Woodcore
- Top finish: Vinyl tile
- Edge: PVC edge strip
- Top finish: Vinyl tile
- Weight of removable panels: 13.0 kgs approx
- Floor panel fixing: Rigid Grid
- Floor panel location method: Positive.

320 PEDESTALS: To data center areas.

- Life expectancy, excluding coverings (minimum): 50 years
- Pedestal fixing; 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: hot galvanized steel construction.

325 STRINGERS: To data center areas.

- Life expectancy, excluding coverings (minimum): 50 years
- Stringer length: 600mm
- Stringer materials: hot galvanized steel construction.

INSTALLATION

410 CONTROL SAMPLES

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

421 PREPARATION

- Cleanliness: Clean before installation and keep clean during installation.

- Setting out: Before installation of services, indelibly mark pedestal positions.
- Fixtures: Before installation of service, 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.

431 DUSTPROOFING

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

435 CUT FLOOR PANELS

- Size (minimum): 150mm width.
- 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.

441 RAISED ACCESS FLOOR LEVELS

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

445 PERIMETERS

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

451 CAVITY BARRIERS

- Construction:
 - Material:
 - Fire resistance to BS 47620: 30 minutes.
- Performance: Permanently stable, continuous, and an effective barrier to smoke and flame.
- Distribution:
 - Centres (maximum): 20 metres.
 - Subdivided areas (maximum): 64 m².

- 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.

460 UNDER-FLOOR PLENUM AIR BARRIERS

- Material: Rigid or semirigid nonporous sheets with smooth nondusting surfaces.
- Performance: Permanently stable, continuous and airtight.
- Fixing: Fix securely to subfloor, at joints and as necessary.
- Edges and joints: Seal.

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 operated 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 RESISITANCE 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.

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:
 - Floor panels.....number.
 - Pedestals.....number.

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.

Linfloor Floors, Inc.
K41 Specification
WP1250V Access Floor Panel
Rigid Grid Understructure 300mm

K41 RAISED ACCESS FLOORS

To be read with Preliminaries/ General conditions.

TYPES OF RAISED ACCESS FLOOR

130

RAISED ACCESS FLOOR

- Manufacturer: Linfloor Floors, Inc.
- Product reference: linfloor WP System.
- Subfloor: Existing concrete slab.
Preparation: Existing concrete slab.
- Floor panels: 600 x 600 mm.
Accessibility: Full access.
- Pedestal fixing: Adhesive
- Structural grade: PSA – Extra Heavy grade ; EN 12825 – 6A
- Installed mass of system (maximum): 44 kg/m².
- Height:
Finished raised access floor height above subfloor: 300mm.
Under-floor void height: 260mm.
- Floor covering: Loose laid carpet tiles as section M50.
- Accessories:
 - Edge Rails
 - Access plates and covers
 - Ramps
 - 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: 20kn/m²
 - Concentrated loads:
 - Location: between two pedestals
 - Load: 550 kg
 - Area of load: 25mm x 25mm
 - Deflection (maximum): 2.5mm
 - Safety factor: 3
- Dynamic loads:
 - Absorption of hard body impacts: pass
 - Absorption of soft body impacts: pass

234

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.

COMPONENTS

310 SAMPLES

- General: Submit representative samples of the following:
 - WP1250V floor panel and Rigid Grid Understructure of appropriate height.
 - Purpose: Client approval.

315 FLOOR PANELS To data center areas.

- Panel size: 600 x 600mm
- Tolerances: To MOB PF2 PS/SPU
- Life expectancy, excluding coverings (minimum): 25 years
- Bottom material: Steel
- Core material: Woodcore
- Top finish: Vinyl tile
- Edge: PVC edge strip
- Weight of removable panels: 13.5 kgs approx
- Floor panel fixing: Rigid Grid
- Floor panel location method: Positive.

320 PEDESTALS: To data center areas.

- Life expectancy, excluding coverings (minimum): 50 years
- Pedestal fixing; 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: hot galvanized steel construction.

325 STRINGERS: To data center areas.

- Life expectancy, excluding coverings (minimum): 50 years
- Stringer length: 600mm
- Stringer materials: hot galvanized steel construction.

INSTALLATION

410 CONTROL SAMPLES

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

421 PREPARATION

- Cleanliness: Clean before installation and keep clean during installation.
- Setting out: Before installation of services, indelibly mark pedestal positions.

- Fixtures: Before installation of service, 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.

431 DUSTPROOFING

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

435 CUT FLOOR PANELS

- Size (minimum): 150mm width.
- 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.

441 RAISED ACCESS FLOOR LEVELS

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

445 PERIMETERS

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

451 CAVITY BARRIERS

- Construction:
 - Material:
 - Fire resistance to BS 47620: 30 minutes.
- Performance: Permanently stable, continuous, and an effective barrier to smoke and flame.
- Distribution:
 - Centres (maximum): 20 metres.
 - Subdivided areas (maximum): 64 m².
- 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.

460 UNDER-FLOOR PLENUM AIR BARRIERS

- Material: Rigid or semirigid nonporous sheets with smooth nondusting surfaces.
- Performance: Permanently stable, continuous and airtight.
- Fixing: Fix securely to subfloor, at joints and as necessary.
- Edges and joints: Seal.

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 operated 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 RESISITANCE 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.

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:
 - Floor panels.....number.
 - Pedestals.....number.

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.