K41 – RMF - TITAN RAISED ACCESS FLOORS

SCOPE

This section deals with raised access floor systems supported off the structural floor to form a void for the distribution of services. The construction normally consists of panels supported on a grid of pedestals which have a vertical height adjustment mechanism. Access to the void is through removable panels.

Raised access floor subcontracts can include:

A variety of accessories, e.g. cable outlets, air grilles, trunking, ramps, balustrades and integral floor finishes.

Application of a dust proofing sealer to the subfloor.

For work associated with the floor but not forming part of the subcontract see: M50 Rubber/Plastic/Cork/Linoleum/Carpet Tiling/sheeting.

M51 Edge fixed carpeting.

M60 Special surface coatings applied to the subfloor . L3 - Stairs or balustrades .

P10 Fire barriers and fire stops.

P31 Fire stops around service penetrations. Covers to trenches/ducts within the subfloor .

Raised access floor systems which include timber flooring on a timber support structure should be specified in section R20 or K21 as appropriate.

130 RAISED ACCESS FLOOR

Drawing reference(s): …… ……..

Subfloor: Fine to medium tamped finish. Power floated finish is not preferred. Preparation: Floor to be thoroughly swept to remove all loose dust and debris and two coats of PVA floor sealer applied prior to laying pedestals

Flooring system:

RMF TITAN – MEDIUM GRADE - MOB PF2 PS/SPU

Supplier and Installer:

RMF Installation & Services Limited – 01926 425289 – www.rmf-services.co.uk

info@rmf-services.co.uk

Flooring System to Method of Build Performance Spec MOB PF2 PS/SPU (March 1992)

Unless specified otherwise.

Floor Panels 600mm x 600mm x 26mm “Gravity Lay” or “Lock Down”

Access Type Full

Strength Grade: .....

Panels shall be 600mm square and shall be interchangeable with other panels except where cut for special purposes. Panels shall be easily removed and replaced without disturbing adjacent panels, by one person using a portable lifting device.

Panels shall be protected from corrosion by the manufacturers standard factory applied finishes.

Under structure type shall be selected from the standard range with due regard to height and loading criteria and shall be protected from corrosion by the use of galvanised or nonferrous materials in its construction.

Pedestal Grid Centres 600mm

Finished floor height above subfloor (nominal): ……..mm

Accessories: …….

Other requirements: ……..

GENERALLY / PRELIMINARY WORK

210 REFERENCES TO THE AUTHORITY:

For the purpose of this specification all references to the Authority in M OB PF2 PS are deemed to be in the Employer.

310 SAMPLES:

Before placing orders or manufacturing components submit representative sample(s) of all floor components if required by employer. Ensure that delivered materials match sample(s).

310A CONTROL SAMPLE(S): (*Delete this clause if not required*)

Complete area(s) of the finished work in approved location(s) as follows, and obtain approval of appearance before proceeding with installation:

340 CO-ORDINATION WITH OTHERS:

Liaise with the Main Contractor and other subcontractors to ensure:

Correct location of pedestals and services. Where considered necessary indelibly mark positions of pedestals in advance of services installations.

Related work is suitably co-ordinated and can proceed without damage to the floor. Protect as necessary.

Before commencing work. Ensure that fixtures, around which panels are to be cut or over which supports are to bridge, are completed.

425 ENVIRONMENTAL CONDITIONS:

Areas for storage and installation must be clean, dry, ventilated and free from both excessive and rapid variations of temperature and humidity. RH must not exceed 75%. ALL STORAGE MUST BE INSIDE A WEATHERPROOF BUILDING. Outdoor storage under tarpaulins is not acceptable.

No part of the subfloor or surrounding walls must show readings of more than 75% RH when tested for moisture content using an accurately calibrated hygrometer in accordance with BS 8201. Appendix A Subfloor temperatures must be maintained above 5 C.

425A EXISTING FINISHES TO SUBFLOOR:

Where existing subfloor coverings are to be retained or removed, use mechanical fixings.

If the Flooring Contractor proposes to use adhesive only fixing of pedestal bases, but the MOB PF2 PS site pedestal fixing test shows that this is inadequate, mechanical fixings must be used.

If the test failure is shown to the satisfaction of the CA to be due to the nature of the concrete subfloor, including the presence of excessive laitance, the extra cost of mechanical fixings will be paid to the Flooring Contractor.

A provisional item for the extra cost of such mechanical fixing should be allowed

431 DUSTPROOFING

Ensure that surfaces to be sealed are clean, dry and free from dust, grease and other contaminants.

Apply two coats of colour tinted sealer, recommended by the raised access floor manufacturer, to all concrete dusting throughout the life of the installation.

The first coat to be applied before the pedestals are erected and the second coat, with a different colour tint, towards the end of the floor installation.

INSTALLATION

405 WORKMANSHIP GENERALLY:

Store and install floor components in dry, well ventilated conditions not subject to extremes of temperature or humidity.

Ensure that the subfloor is clean before installation commences and that cleanliness is maintained throughout the installation.

Install the floor, accessories, finishes, etc. to ac hieve specified levels of performance.

The completed installation to be level, clean, stable, firm and free from bounce, squeaks, vibration, and lipping between panels.

Adequately protect from dirt, stains, damage and overloading until Practical Completion.

433 PEDESTAL STRUCTURE & FIXING TESTS:

Test pedestals to MOB PF2 PS, test T42.00 to prove the need or otherwise for mechanical fixing to the subfloor and for site quality control. Tests to be carried out in the presence of the CA.

Where an adhesive fixing fails as a result of subfloor failure, arrange for the Main

Contractor to make good the subfloor, refix using mechanical fixings and retest.

435 SETTING OUT:

Where not shown otherwise, set out floor system to ensure that cut panels are not less than half in width ; particularly at doorways, thresholds, etc.

SEALING OF CUT PANELS

Seal all exposed cut edges of panels using Class 0 Aluminium foil sealer to prevent dust generation.

445 PERIMETERS:

Ensure that the installed system has sufficient lateral stability to enable it to be independent of abutting elements.

Provide a 10mm expansion gap at all abutments and fill with a resilient closed cell filler before fixing skirtings, cover strips, etc.

452 CAVITY BARRIERS:

Material: Lamatherm or equivalent

Fire resistance to BS 476: Part 8 or Part 20, stability/integrity/insulation (minutes): 30 minutes.

Unless shown otherwise, install barriers to subdivide floor void into areas as required by the local fire authority. Barriers should not be spaced at greater than 20 meters apart.

Fix securely to subfloor, at joints, and as necessary to ensure permanent stability and continuity with no gaps; to provide an effective barrier to smoke and flame.

Seal any gaps at junctions of cavity barriers with floor panels, walls, ducts, pipes, cable trays, etc., with mineral wool or other suitable material to prevent penetration of smoke and flame.

Access panels above cavity barriers to be screwed down or otherwise firmly secured.

455 CHANGES OF LEVEL:

Drawing reference(s) …….

Ramps and steps: Construct to approved details to achieve performance requirements specified for the associated raised access floor.

Balustrades: Ensure compliance with the structural and safety requirements of BS 6180.

460 AIR PLENUM BARRIERS: (*Delete this clau se if not required*)

Material: Rigid or semi-rigid non-porous sheets with smooth non -dusting surfaces and complying with the hydrothermal (P5.00) and surface spread of flame requirements (P5.02) of MOB PF2 PS.

Fix securely to subfloor, at joints, and as necessary to ensure permanent stability. All edges and joints to be effectively sealed.

465 ELECTRICAL CONTINUITY & EARTH BONDING (*Delete this clause if not required*)

All substantial metal parts of the floor to be electrically continuous and fully earth bonded in accordance with the latest edition of the IEE Regulations.

Liaise with the electrical subcontractor to agree the number and location of earth bonding connection points. Supply connectors as necessary for use by electrical subcontractor.

After completion of the floor and associated services, arrange for tests to demonstrate that the floor is electrically continuous and fully earth bonded. Points chosen for testing to include randomly selected pedestals, stringers, tops and bottom of panels, etc. (Supply of the services of a qualified electrician to be by employer.)

Notify the CA to enable him to witness the testing. Submit a test report to the CA.

470 TESTING ELECTRICAL RESISTANCE:

Arrange for a qualified electrician to test the floor to verify compliance with MOB PF2

PS. Clause P9.01. Notify the CA to enable him to witness the testing. Submit a test report to the CA.

PROTECTION

Ensure that no part of the floor installation is: Used as a platform for storage of equipment and materials.

Subjected to static or dynamic loads which exceed those for which it is designed.

Adequate precautions, including use of spreader plates, must be taken during installation of equipment and any work on other elements, e.g. ceilings.

Is walked on within 48 hours following the use of adhesives to fix pedestals to the subfloor.

Left unprotected prior to Practical Completion. Supply and lay a protective covering of:

…….

510 PANEL LIFTING DEVICES:

Provide the main contractor with two sets of lifting devices suitable for each of the floor finishes installed. One set to be for the use of subcontractors requiring access to the void and other for handing over to the CA at Practical Completion.

515 USERS INSTRUCTIONS:

Provide the main Contractor with two copies of the floor manufacturer's maintenance and user instructions. One copy to be for the use of subcontractors requiring access to the void and the other for handing over to the CA at Practical Completion. The contents of the instructions to include:

The correct method of lifting and replacing stringers; including limitations on the sequence and number of panels, stringers, etc., which can be removed at one time.

The permissible loadings that can be applied to the floor, with guidance on the use of spreader plates, etc., during the installation of equipment and subsequent maintenance.

Methods for the installing of cabling, ducts, etc., so as to prevent damage to the supporting structure.

Cleaning methods for the panels and an y integral finishe(s).

520 SPARES: (*Delete this clause if not required*)

Provide the following and hand over to the Employer at Practical Completion:

……

……

……

POST INSTALLATION VISIT:

After completion of services and other associated work:

Thoroughly inspect the floor installation for defects. Prepare a schedule of outstanding defects and submit a copy to the CA.

Thoroughly clean all accessible area s of the subfloor.

Apply a further coat of sealer to all accessible areas of the subfloor. (*Delete this clause if not required*)