

Design, Supply and Install of Engineered Raised Access Floor System

The following is the specifications for the required floor:

Fully engineered and designed raised floor, this needs to include calculations and a full 3D Revit model which has been coordinated with the relevant client party to prevent any possible clashes during construction.

Assemblies composed of modular and Self-Supporting Floor Structure bolted together, having gravity placed floor panels on top not connected to the pedestal supports. Lateral strength of floor system shall be independent from floor panels being in place or removed. Sub structure should also be able to carry the same loading/m² with or without panels being in place. No diagonal support bracing should be required at any height in order to support the sub-structure.

Floor under structure shall consist of 80x40x1.6mm S350GD pre-galvanized Steel tube sections used as Primary and Secondary layers bolted together 90 degrees perpendicular to each other with 80/40mm quick mounting brackets and self-tapping screws.

Pedestal assembly shall consist of 160x60x3mm base plates, 80x40x1.6mm S350GD pre-galvanized steel tube column with 85x45x4mm cap plate and 150x46x3mm Head Bracket with 100mm x M16 Threaded section together with nut and locking nut for height adjustments where required. All Pedestal items should be fabricated from hot dipped galvanized steel.

Access floor system must be capable of supporting a uniformly distributed load of: 10kN/m²

The 600x600x38mm High Moisture Resistant Wood-Core Panels are to be covered by means of a Direct Laminate process, manufactured from Phenolic and melamine resin impregnated papers, décor layer of M335 Granite and a high-wear type melamine glass overlay. The Direct Laminate should be wear resistant (Class AC3 according to EN13329) and easy to clean and maintain.

The system should be able to accommodate integrated equipment frames which forms part of the sub-structure and which is not stand alone or independent frames. The reason for this is for levelling purposes of the internal bus bars within the electrical panels/equipment which will be placed on top of the floor.

Floor system only to be installed by a manufacturers authorized representative to produce a rigid, firm installation that complies with performance requirements and is free of instability, rocking, rattles and squeaks.

Installation to be carried out strictly to the manufacturer's installation process.