

K40 **Suspended Ceilings**

To be read with preliminaries/ general conditions.

Types of ceiling system

115A **Ceiling tile system**

1.0	Description:	To Shower Rooms
2.0	Standard:	To BS EN 13964.
3.0	Evidence of compliance:	All ceilings kits to be CE marked. Submit Declaration of Performance
4.0	Ceiling system manufacturer:	Rockfon
4.1	Product reference:	Rockfon® System T24 A, E ECR
5.0	Grid type:	24mm exposed grid – Chicago Metallic T24 Click 2890. Main runners (ref:155132) shall be positioned at 1200mm centres and securely fastened to the structural soffit using straightened 2mm diameter galvanised mild steel wire positioned at 1200mm maximum centres. All main runner joints shall be staggered, and there should be a hanger positioned within 150mm of the fire expansion point, with the maximum suspension from the perimeter not to exceed 450mm. 1200mm cross tees (ref:158088) shall be connected to and span the main runners at 600mm centres and shall be subdivided by 600mm cross tees (ref:158089) forming a module of 600mm x 600mm.
5.1	Hangers:	Straightened 2mm galvanised mild steel wire
5.2	Protective finish to suspension systems:	Galvanized and Painted
5.3	Perimeter trim:	Perimeter wall angle trim 32mm x 19mm (Ref:170595) securely fastened to vertical wall surfaces at 450mm maximum centres
6.0	Panel type:	TVS Cleancare
6.1	Edge detail:	Rockfon A24
6.2	Fire safety:	No requirement
7.0	Sound absorption:	No requirement
7.1	Reverberation Requirements:	No requirement
8.0	Humidity resistance:	Contractor to ensure their selected tile is non hygroscopic and can resist up to 100% relative humidity at 40°C, providing 100% dimensional stability.
9.0	Light reflection:	Min 80%
10.0	Size(s):	600mm x 600mm x 8mm.
11.0	Finish/colour:	Smooth white PVC
12.0	Service Fittings	Check with manufacturers technical department for advice on installation of services/lights, etc. as required

Execution

305 **Setting out**

1.0	General: Completed ceiling should present, over the whole of its surface exposed to the room below, a continuous and even surface, jointed (where applicable) at regular intervals.
2.0	Infill and access units, integrated services: Fitted correctly and aligned.
3.0	Edge/ perimeter infill units size (minimum): Half standard width or length.
4.0	Corner infill units size (minimum): Half standard width and length.
5.0	Grid: Position to suit infill unit sizes. Allow for permitted deviations from nominal sizes of infill unit.
6.0	Infill joints and exposed suspension members: Straight, aligned and parallel to walls, unless specified otherwise.
7.0	Suitability of construction: Give notice where building elements and features to which the ceiling systems relate are not square, straight or level.

320 Top fixing

- 1.0 Building structure: Verify suitability.
- 2.0 Structural soffit:
- 2.1 Suitability to receive specified fixings: Evaluate and confirm.
- 3.0 Fixing generally: In accordance with BS EN 13964.
- 4.0 Fixing to
- 4.1 Concrete: Drill and insert suitable expanding anchors.
- 4.2 Aerated concrete: Fix through from the top of concrete units and provide a system of primary support channels.

325 Installing hangers

- 1.0 Wire hangers: Straighten and tension before use.
- 2.0 Installation: Install vertical or near vertical, without bends or kinks. Do not allow hangers to press against fittings, services, or insulation covering ducts/ pipes.
- 3.0 Obstructions: Where obstructions prevent vertical installation, either brace diagonal hangers obstructions and supported to prevent lateral movement.
- 4.0 Extra hangers: Provide as necessary to carry additional loads.
- 5.0 Fixing
- 5.1 Wire hangers: Tie securely at top with tight bends to loops to prevent vertical movement.
- 5.2 Angle/ strap hangers: Do not use rivets for top fixing.

335 Perimeter trims

- 1.0 Jointing: Neat and accurate, without lipping or twisting.
- 1.2 Intermediate butt joints: Minimize. Use longest available lengths of trim. Align adjacent lengths.
- 2.0 Fixing: Fix firmly to perimeter wall, edge battens or other building structure.
- 2.1 Fasteners: As per manufacturers requirements
- 2.2 Fixing centres: As per manufacturers requirements

355 Installing infill units

- 1.0 General
- 1.1 Perimeter infill units: Trimmed, as necessary, to fully fill space between last grid member and perimeter trim. Prevent subsequent movement.
- 1.2 Deeply textured infill units: Minimize variations in apparent texture and colour. In particular, avoid patchiness.
- 2.0 Infill units around recessed luminaires and similar openings: Prevent movement and displacement.

390 Openings in ceiling materials

- 1.0 General: Neat and accurate. To suit sizes and edge details of fittings. Do not distort ceiling system.

395 Integrated services

- 1.0 General: Position services accurately, support adequately. Align and level in relation to the ceiling and suspension system. Do not diminish performance of ceiling system.
- 2.0 Small fittings: Support with rigid backing boards or other suitable means. Do not damage or distort the ceiling.
- 3.0 Supported by ceiling system: Provide additional hangers.

401 Ceiling-mounted luminaires

- 1.0 Ceiling supported luminaires: Review extra support required.
- 3.0 Modular fluorescent recessed luminaires: Compatible with ceiling module. Extension boxes must not foul ceiling system.
- 4.0 Recessed rows of luminaires: Provide flanges for support of grid and infill units, unless mounted above grid flanges. Retain in

411 Mechanical services

- 1.0 Air grilles and diffusers
- 1.1 Setting out: Accurate and level.
- 1.2 Grille/ Diffuser ceiling joints: Provide smudge rings and edge seals.

- 2.0 Smoke detectors
- 2.1 Ceiling infill units: Scribe and trim to suit.

500 Electrical continuity and earth bonding

- 1.0 Inclusion in finished work:

Completion

520 User instructions

- 1.0 Contents: Include the following:
 - 1.1 Correct methods for removing and replacing infill units and other components.
 - 1.2 Cleaning methods and materials.
 - 1.3 Recommendations for redecoration.