



CHAPMAN TAYLOR
GLOBAL ARCHITECTS & MASTERPLANNERS

Chapman Taylor LLP

BAM

D132KCH

Kirklees Cultural Heart Centre

IR430301-CTA-ZZ-XX-SP-A-010M41

M41 Terrazzo tiling/ in situ terrazzo

Construction

C01

22-12-2024

The Grade II listed indoor market hall is set to undergo a comprehensive transformation, evolving into a combined indoor food hall and a state-of-the-art public library that will also house the West Yorkshire Archive Service (WYAS).



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M41 Terrazzo tiling/ in situ terrazzo

Types of terrazzo

15X Scope of Work

1. Generally: Complete the design and detailing in accordance with the indicative design shown on the drawings and the requirements of this specification and install stone flooring as specified.
 - 1.1. Work includes but is not restricted to:
 - Development of standard and interface details including provision of movement joints etc.
 - Interface details etc.
 - Interface details to door thresholds etc.
2. Additional components: Allow for all ancillary works and components, fixings etc. necessary for the completion of the work.
3. Coordination: Coordinate the design with the requirements of adjoining work packages, their components and tolerances, including interface details, structural components etc.
4. Design information: Allow for the provision of design information as required, including information required by the CA, Building Control Officer etc.
5. Proprietary information: Allow for the provision of proprietary information, including Agreement or equivalent certification.
6. Health and Safety information: Allow for the provision of this information for the Construction Phase Health and Safety Plan and Health and Safety File. Comply with the duties of Designers under The Construction (Design and Management) Regulations.
7. Testing: Allow for all testing described, including re-testing and additional testing where test results obtained are not in accordance with the performance requirements of this specification.
8. Samples: Allow for the provision of samples, as specified, including incorporation of some samples into mock-ups and prototypes, as specified.
9. Control samples: Allow for the provision of control samples, being part of the finished work only where specified, and obtaining approval of appearance. Allow for providing additional control samples, as directed.
10. Protection: Allow for the provision of protection, as specified and as required to protect finished components from subsequent adjacent work, including additional and replacement protection where required by the progress of the works. Allow for removing such protection, when directed.
11. Maintenance information: Allow for the provision of this information for the Building Manual. All Building Manual documentation requirements must be reviewed, agreed and confirmed in writing with the Main Contractor at the earliest stage.

50X Movement

1. General: The work shall accommodate, without distortion or other defect, all anticipated stress and inherent movement including all movement in adjacent components.
 - Structural movement: Obtain details of anticipated movement of the structure relevant to the work.
 - Movement generally: Allow in the design for all movements and dimensional changes that may occur in the building and in the work covered by this specification due to all factors, including:
 - 1.1. Thermal changes, creep, shrinkage, deflection and vibration.

110 Terrazzo tiling to Food Hall FIN-01

1. Description: Terrazzo floor tiling to Food Hall floor
2. Tiles



- 2.1. To: BS EN 13748-1 for internal use.
- 2.2. Manufacturer: Quiligotti Terrazzo Tiles Limited or equivalent approved
PO Box 4
Clifton Junction
Manchester M27 8LP.
 - 2.2.1. Product reference: Submit proposals
- 2.3. Recycled content: Submit proposals
- 2.4. Size: 600mm x 600mm x (min) 20mm - Subject to agreement with Client & Conservation officer
3. Substrate: Screed on void former on existing / retained floor finish
 - 3.1. Preparation for bedding: Remove laitance to expose coarse aggregate, apply bonding coat
4. Bedding
 - 4.1. Thickness (minimum): To manufacturers recommendations
 - 4.2. Mix (cement:sand): 1:4 cement:sand mortar
 - 4.3. Attachment to substrate: Fully bonded with proprietary bonding coat as recommended by the tile manufacturer
 - 4.4. Reinforcement for crack control: As clause 395
5. Joint width: 1.5-3 mm.
6. Movement joints: – Perimeter: As clause 440 at all perimeters, including door thresholds and around columns and stairs.
– Intermediate: As clause 440 at not more than 6m centres.
7. Finishing
 - 7.1. Grinding: As clause 520 in accordance with tile manufacturer's instructions
 - 7.2. Finish: To provide slip resistance of 40, wet as clause 240.
8. Other requirements: Minimum 120mm high terrazzo skirting to match floor skirting . Floor and skirting joints to align. Grout to match body colour of tiles.

Generally

210 Suitability of substrates

1. General: Suitably dry and clean for specified bedding method.
2. Existing substrates: Free from loose areas and significant cracks and gaps.
3. New in situ concrete substrates Allow for initial shrinkage:
 - 3.1. Air drying after curing: (minimum) 6 weeks .
 - 3.2. Other methods: Submit proposals.

220 Existing concrete/ Screeds

1. Loose or hollow portions: Cut out and make good.
2. Material for making good: 1:4 cement:sand mortar

230X Samples

1. General: Submit representative samples of the following: All terrazzo types
 - 1.1. Obtain approval of appearance before proceeding.
2. Supplied materials: To match approved samples.



235X Control samples

1. General: Complete sample areas, being part of the finished work, and obtain approval of appearance before proceeding.
2. Terrazzo type: As clause M41/110
 - 2.1. Location/ Size: Completed area of 4 sqm
3. Subsequent work: To match approved samples.

240X Slip resistance

1. Testing: Flooring type M41/110 shall:
 - 1.1. Be measured for slip resistance with a Pendulum Skid Resistance Tester in accordance with clause 525 and the UK Slip Resistance Group's recommended guidelines.
2. Slip potential:
 - 2.1. Slip resistance value (SRV) (minimum)/ Pendulum test value (PTV) (minimum) to UK Slip Resistance Group (UKSRG) guidelines: 40 wet and dry.
3. Test samples: Must include any surface sealer to be applied to the finished flooring.
4. Test results: Submit as clause 525 to the CA 4 weeks prior to ordering tiles.

242 Cement

1. Standard: To BS EN 197-1.
 - 1.1. Types: Portland cement, CEM I or Portland slag cement, CEM II/ B-S.
 - 1.2. Strength class: 42.5.
2. Certification for all cements: BSI Kitemark scheme.

245 Sand (Fine aggregate)

1. Standard: To BS EN 13139.

248 Admixtures

1. Water reducing and set retarding admixtures: To BS EN 934-2 and compatible with other mortar constituents.

250X Pigment

1. Mixing: Dry with cement binder before adding to the full aggregate batch.
2. Ratio of colour to cement: Not exceeding 5%, by weight.

Laying

300X Adverse weather

1. Do not lay tiles if the temperature is below 5°C on a falling thermometer or below 1°C on a rising thermometer.
2. Do not use frozen materials or apply finishes to frozen or frost covered surfaces.
3. Take adequate precautions to protect work from frost damage and premature drying out.

305 Laying generally

1. Tiles: Fully adhered to bedding.
2. Cut tiles: Neat and accurate.
3. Joints: True to line, continuous and without steps.



- 3.1. Joints in floors: Parallel to main axis of the space or specified features.
4. Dividing strips/ Movement joints: If locations are not indicated, submit proposals.

340 Flatness/ Surface regularity of finished floor

1. Sudden irregularities: Not permitted.
2. Deviation (maximum) of surface measured from underside of a 2 m straightedge, between points of contact, and placed anywhere on the surface: 3 mm.

340X Flatness/ Surface regularity of finished floor

1. Sudden irregularities: Not permitted.
2. Deviation (maximum) of surface measured from underside of a 2 m straightedge, between points of contact, and placed anywhere on the surface: 3 mm.
3. Deviations at critical junctions, including edges and stairs: 3mm.
4. Deviations at door openings: 1mm.

345 Level of unground tiling across joints

1. Deviations (maximum) between surfaces either side of any type of joint
 - 1.1. Joints less than 6 mm wide: 1 mm.
 - 1.2. Joints 6 mm wide or greater: 2 mm.

390 Mixing bedding mortar

1. Batching Select from:
 - 1.1. Batch by weight.
 - 1.2. Batch by volume: Permitted on the basis of previously established weight:volume relationships of the particular materials. Allow for bulking of damp sand.
2. Water content: Minimum necessary to achieve full compaction.
3. Mixes: Of uniform consistence, free from lumps. Do not retemper or reconstitute mixes.

395 Crack control reinforcement

1. Standard: To BS 4483.
 - 1.1. Fabric reinforcement type: D49
2. Location: Centrally in depth of bed.
 - 2.1. Laps (minimum): 100 mm and tied with steel wire.

405 Tiling on mortar bedding

1. Compaction of bedding: Compact thorough.
2. Tiling: Lay tiles on layer of wet slurry and beat tiles firmly into position.
 - 2.1. Timing: Before bedding sets and to achieve effective bond between bedding and tiles.
 - 2.2. Slurry type: 1:1 cement:fine sand.
3. Grouting: Fill joints. Remove surplus and allow grout to cure before finishing.
 - 3.1. Grout colour: To match tile/ tile matrix.

430 In situ terrazzo

1. Mixing terrazzo materials: Before adding water, mix in a dry state to a uniform colour and with even distribution of different size aggregates.
 - 1.1. Water content: Minimum necessary to achieve full compaction.



2. Bedding: Compact thoroughly.
3. Terrazzo: Lay on layer of wet slurry and compact level with the dividing strips.
 - 3.1. Timing: To achieve effective bond to bedding.
 - 3.2. Slurry type: 1:1 Cement fine sand.
4. Surfaces: Free from excess laitance.
 - 4.1. Aggregate: Regularly distributed with minimum amount of cement matrix visible.

440 Dividing strips

1. Material: Stainless steel to BS EN 10088 grade 1.4301 (304).
 - 1.1. Thickness: 6 mm
2. Installation: Set to required finished floor level.

445 Strip movement joints

1. Manufacturer: Schlüter-Systems Ltd or equivalent approved
Units 3-5
Bardon 22
Beveridge Lane
Coalville
Leicestershire LE67 1TE.
 - 1.1. Product reference: Schlüter-DILEX-EMP.
 - 1.2. Colour: Natural stainless steel
2. Joint width: 12 mm
3. Installation: Extend through terrazzo and bedding to base. Set to required finished floor level.
 - 3.1. Fixing: In accordance with manufacturers instructions.

510X Curing

1. Protection: Immediately after laying, protect finished surfaces from wind, draughts and strong sunlight.
 - 1.1. Cover with polythene sheets retained in close contact with the surface and lapped 100 mm.
 - 1.2. Keep protection in position for not less than three days and until grinding commences.

520 Grinding

1. Mechanical grinding: Use wet process. Dry process permitted only where it is not practicable to use wet process.
2. Coarse grinding: Remove all surface grout, correct unevenness and remove lipping between tiles/slabs.
 - 2.1. Residue and dust: Remove. Wash and rinse surface.
3. Fill with matching grout.
4. Polishing: Use wet process.
 - 4.1. Residue and dust: Remove. Wash and rinse surface and leave to dry naturally.
5. Protection: Cover flooring and keep free from traffic for at least two days.

525X Slip resistance testing

1. Test: To UK Slip Resistance Group (UKSRG) guidelines.
2. Report: Submit. Include:
 - 2.1. Name and address of testing authority.



- 2.2. Date of tests.
- 2.3. Location of test.
- 2.4. Temperatures of test surfaces.
- 2.5. The slider material used on the pendulum tester.
- 2.6. Slip resistance values in wet and dry conditions.

Completion

540 Chemical floor hardener

1. **Manufacturer:** As recommended by the tile manufacturer.
 - 1.1. **Product reference:** Type recommended by the tile manufacturer.
2. **Excess hardener:** Prevent drying out on the surface of terrazzo. Remove with clean water.

550X Protection

1. **Generally:** Adequately protect all completed areas from damage, contamination and staining and keep clean.
2. **Droppings:** Clean off immediately.
3. **Heating:** Do not heat floors or building artificially during first eight weeks after laying, thereafter raise temperature slowly.

560X Cleaning and maintenance

1. **Cleaning and maintenance:** Before Practical Completion provide for inclusion in the Building Manual project specific instructions and recommended procedures for cleaning and maintenance including:
 - 1.1. Maintaining the slip resistance of flooring.
 - 1.2. Maintaining the stain sealer system to flooring.
2. **Prior to Practical Completion:** Thoroughly clean all surfaces in accordance with those recommendations.

Ω End of Section



C21X

Stripping out **DELETED**

F10

Brick/ block walling **DELETED**

F30

Accessories/ sundry items for brick/ block/ stone walling

DELETED

G15X

Steel frame section (SFS) **DELETED**

H72

Aluminium strip/ sheet fully supported roof and wall coverings/ flashings **DELETED**

J31

Liquid applied waterproof roof coatings **DELETED**

K10

Gypsum board dry linings/ partitions/ ceilings **DELETED**

K30

Panel partitions **DELETED**

K32

Panel cubicles/ duct and wall linings/ screens **DELETED**

K40

Demountable suspended ceilings **DELETED**

K41

Raised access floors **DELETED**

L10

Internal screens/ louvres **DELETED**

L20

Doors/ shutters/ hatches **DELETED**

L30

Stairs/ ladders/ walkways/ handrails/ balustrades **DELETED**

L35

Fixed utilitarian access systems **DELETED**

M10

Cement based levelling/ wearing screeds **DELETED**

M12

Resin flooring **DELETED**



M40

Stone/ concrete/ quarry/ ceramic tiling/ mosaic **DELETED**

M50

Rubber/ plastics/ cork/ lino/ carpet tiling/ sheeting **DELETED**

M60

Painting/clear finishing **DELETED**

M60

Painting/clear finishing **DELETED**

N10

General fixtures/ furnishings/ equipment **DELETED**

N11

Domestic kitchen fittings, furnishings and equipment

DELETED

N13

Sanitary appliances and fittings **DELETED**

P10

Sundry insulation/ proofing work **DELETED**

P20

Unframed isolated trims/ skirtings/ sundry items **DELETED**

P21

Door/ window ironmongery **DELETED**

Q41

Barriers/ guardrails **DELETED**

Z10

Purpose made joinery **DELETED**

Z11

Purpose made metalwork **DELETED**

Z20

Fixings and adhesives **DELETED**

Z21

Mortars **DELETED**

Z22

Sealants **DELETED**

Z31

Powder coatings **DELETED**



Z33

Anodizing **DELETED**

Z50X

Air-tightness **DELETED**



Specification created using NBS Chorus