Supporting Documentation Barnston Christ Church – Vestry toilet

Note to parish

This bundle includes all the supporting documentation to your faculty application as required under Rule 5.5 of the Faculty Jurisdiction (Amendment) Rules 2022.

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Caroline Hilton, DAC Secretary

6 March 2023

We petition the Court for a faculty to authorise the following-

Please describe the works or other proposals for which a faculty is sought in the way recommended by the Diocesan Advisory Committee in its Notification of Advice.

SCHEDULE OF WORKS OR PROPOSALS

The vestry is situated at the west end of the Church and was an addition to the existing building circ mid 1950's, entrance from the Church is through double oak doors. The vestry provides creche facilities during weekly services and is used as a choir robing room for formal services. it is also used as an occasional meeting room. Located with the vestry area are a toilet, flower arranging storage cupboard and general storage cupboards (see existing plan layout).

It is proposed to extend the existing toilet facilities to accommodate wheelchairs and baby changing facilities thereby being available to all users of the Church. The main area of the vestry will be redefined as a self-contained area with a new doorway and doors. the existing storage space is to be refurbished (see proposed redefined plan layout). The electrical and services to the area will be upgraded in line with current regulations.

Copies of the Standard Information Form and any drawings, plans, specifications, photographs or other documents showing the proposals must be provided with this petition.

Christ Church Barnston

Vicar: Revd. Chris Slater. Associate Minister Revd. Chris Murphy

Warden: Prof. Robert Moots.

Author: Robert Fiddaman.

Faculty Application: Refurbishment of Vestry and Toilet.

Statement of Significance.

Date: 11th November 2022.

Church Setting and Description.

The site of the Church comprises of a graveyard which is now closed, the Church building, an adjacent vicarage with garages and the church hall, which in the past served as the village school and is set surrounded by fields alongside the busy A551 which connects Thingwall and Heswall and is also close to Storeton Lane which is a popular commuter route to Birkenhead and Liverpool. The Church is part of a cluster of farm building, some of which are undergoing renovation and conversion into living accommodation, and a public house which together form the Barnston conservation area. The immediate vicinity of the Church is sparsely populated with the congregation mainly being drawn from the wider areas of Thingwall and Heswall.

Christ Church is a tradition building, built in 1871 and is designed in the revival gothic style by the celebrated architect George Edmund Street and became Grade II listed in 1986. The building is constructed of white stone, which was quarried locally and has a steeply pitched red tiled roof, with a bellcote mounted at a high level above the west gable. Internally the Church essentially of consists nave and chance while the roof comprises of exposed rafters supported by purlins carried on trusses on simple white walls. Pine pews separated by a walk way line the north and south sides of the nave. The chancel is separated at the chancel steps by a wooden traceried screen. The alter is set against the east wall behind a traceried rail. The chancel also incorporates choir stalls and an attractive pipe organ. On the chancels north side is the clergy vestry and organ chamber. The nave is lit by lancets windows on both sides and four light windows on the west gable end, whilst the chancel is lit by two lancets on the south side and a three window above the alter all windows are stained glass. Entrance to the church is via a porch at the west end of the buildings north elevation. The porch together with a coke store, also on the north side, were an addition to the original building in 1882/83. A flat roof single storey choir vestry was added to the building's west gable wall in 1965, this incorporates a toilet and small store room, the area also is used as a crèche facility during services and as an additional occasional meeting room. The Church is simply furnished and the general feeling is one of space and simplicity, making it popular for weddings, it is also well used for funerals.

The boundary walls of the Church are lined with mature trees and its grounds including the graveyard, lawns, paths and carpark are well maintained in a fitting manner contributing to the local conservation area.

The Church hall is in frequent and regular use for meetings both Church and social, Sunday school and by uniform organisations, luncheon and sewing groups and the such like. It also serves as the location for the Church's administration offices.

Christ Church Barnston

Vicar: Revd. Chris Slater. Associate Minister Revd. Chris Murphy

Warden: Prof. Robert Moots.

Author: Robert Fiddaman.

Faculty Application: Refurbishment of Vestry and Toilet.

Statement of Needs.

Date: 11th November 2022.

1 Current Needs.

The Parish of Barnston comprises of two Churches, Christ Church a Grade ii listed building built in 1871, situated in the conservation area of Barnston village and St. Michaels & All Angels located in Pensby, built in 1957. This application is for Christ Church only.

Being located in Barnston Christ Church is mainly surround by farm land with a modest number of houses and farm buildings close by. There is some conversion of farm building and renovation for living accommodation in progress. Currently there are 154 members on the electoral roll at Christ Church, with the majority of the congregation being mainly drawn from the wider areas of Thingwall and Heswall.

Services at both Churches were reorganised when they reopened following the closure due to the Covid 19 pandemic. At Christ Church there are two morning services at 8.30am Holy Communion, alternating between BCP and Common Worship, and Family Service at 10.30am which includes family communion on the third Sunday of the month. Attendances at these services are normally in the region of 15 at 8.30am and 80 at 10.30am including 12 children. The Church has been fortunate attracting a number of new families with young children as new members.

Sunday Club (school) is held in the nearby Church hall with the choir vestry being used as the crèche facility, this has limited facilities and is in need of modernising, services are relayed into the crèche.

Evening services are now held weekly at St. Michael & All Angels at 5.30pm with a morning service at 9.30am. On occasions joint services are held at each Church.

In addition to regular services wedding and funeral services are regularly held.

The Parish employs a full time Children, Family and Youth Worker and is mindful of the need to provide a friendly and welcoming environment in attracting new families to the Church whilst at the same time providing a friendly environment for the older generations.

2 The Need for Refurbishing the Vestry and Toilet.

The choir vestry was an addition to the Church on the west end in 1965 and except for the addition of stained glass memorial windows there has been little or no improvements carried out in the area. Access to the choir vestry from the Church is through a pair of oak doors, entrance to the current toilet area, which is showing signs of deteriation, is via a narrow corridor with a step down and is inaccessible to wheel chair users. The nearest access facilities are located in the Church hall situated away from the Church. There are no baby changing facilities in the toilet area, if there is a need to change a baby then this is currently carried out in the vestry area.

The proposed refurbishment of the vestry area will provide for an access toilet which will be available to all Church users including wheel chair users, and will provide baby changing facilities. The reconfiguration of the general vestry will provide for a separate crèche area and will remove disturbance by toilet users during services. Additional storage space will also be provided. As the refurbishment work will take place within the choir vestry then there should be no impact on or in the original Church building. It is believed that disturbance during services will be reduced as a result of the changes proposed.

3 Consultation Process.

Concern had been expressed over a number of years regarding the deteriation of the toilet area and its unsuitability in meeting present day standards, particularly for worshipers with mobility difficulties. Discussions were held with Church members regarding requirements and the professional services of an architect were engaged. The funding for the refurbishment project is provided through a generous legacy to the Church. It is considered that the refurbishment will enhance worship at the Church for all.



Outline of demolished element or feature



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C Construction

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R Record

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NOTES

All work is to comply with and to be carried out in accordance with the current building regulations and all relevant British Standards and Codes of Practice.

All materials and fittings used are to be fit for their purpose, to be to relevant BS/EN, 'CE' marked and covered where appropriate by a current BRE certificate.

All site and building dimensions are to be checked on site prior to manufacture, any discrepancies to be notified to architect.

New walls.

100mm thick lightweight concrete block 3.5N (i.e. suitable for sink/shelf fixings) tied to existing masonry walls using Anchon wall starter system. To be finished with 2 coat plaster and skim and half height light grey ceramic wall tiles. The 2 no. external walls to the toilet are to be clad up to half height using tilemaster insulated board. Provide and fix sw capping on top of tiling to these walls.

New infill ground floor structure.

New timber floor joists @450mm centres bedded on dpc with 25mm marine ply deck. Service pipe runs serving radiators etc to be re-routed in this void all pipes to be insulated

Electrical installation.

New power and lighting to be contractor designed to be installed in accordance with the Local Authority standard. All cables to be concealed in suitable conduit.

Installation to be carried out using NICEIC approved qualified electrical contractors in accordance with BS 7671.

Ventilation.

Toilet to be fitted with a mechanical extract fan providing min 15 litres/sec air changes. Fan to be activated by light switch and to have 15 minute over run time

Surface fixed fan by vent axia or other approved, with wall duct and flush plastic grill in black. Wall to be carefully core drilled for extract duct. Exact location to be agreed with architect and client on site.

Water heating.

Provide and install instantaneous water heater by Heatrae Sadia, to be located under the flower sink.

Drainage above ground.

All new sanitary pipe work installations are to be carried out in accordance with BS5572 and BS8000: pt 13: 1989.

New svp's, waste pipes, branch pipes, fittings etc are to be in solvent welded plastics to BS 4514 and BS 5255 and with expansion joints at max 6000mm centres and pipe support systems where required.

Provide and install new sanitary fittings where shown on the drawings, with branch pipes and traps generally as follows:

- Lavatory basin to have 32mm dia traps with 40mm dia branch pipes.
- Sinks are to have 40mm dia traps and tails with 50mm dia branch pipes.
- Traps to the above to be resealing type with min 75mm deep seal.
- Where wastes from basins, sinks etc exceed 1700mm in length provide anti vacuum traps.

Connect new fittings to new soil stack as shown on drawings. New svp to be 100mm diameter and to terminate with air admittance valve fitted to manufacturer's recommendations.

Sanitary fittings to be connected separately to waste stack with 75mm deep seal/anti vacuum traps.

Drainage below ground.

Provide new upvc waste stack with air admittance valve and connect new waste into existing below ground drainage.

To be carried out in accordance with BS EN 752 drain and sewer systems outside buildings; BS 8000 pt 14: 1989 workmanship on building sites.

Allow for inspection and testing in presence of Local Authority building inspector.

Continued on dwg 2000.

Donald Insall Associates

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Christ Church, Barnston

Vestry Plan	Project CD.CCB.04	[№]	000
As Existing	Scale (A3)	Status	Revision
As Existing	1: 50	T	0
	70	Jf 61 	



Scale 1:50

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Drawing Status Any dwg format drawing is to be read in conjunction with and at the scale of the accompanying pdf. Where colours other than black or grey are used, the drawing must be plotted in colour. For status 5° (Construction) drawings all dimensions are to be checked on site by the contractor, scaling is for Local Authority purposes only. Unless otherwise indicated, all dimensions are in millimeters. All information on this drawing is to be read in conjunction with the relevant Donald Insail Associates specification and trade contractors' drawings and information by specialists. In the event of any discogram, please contact us immediately. Which It was itsued information plents and is to be used solely for the purposes for which It was itsued information plants and the base used solely for the purposes for which It was itsued information by information by contact used solely for the purposes for which It was itsued information by information by contact used solely for the purposes for which It was itsued information by an other sourd is to be used solely for the purposes for which It was itsued in the source of the purposes for which It was itsued in the source of the source of the purposes for which It was itsued in the source of the purposes for which It was itsued in the source of the purposes for which It was itsued in the source of the purposes for which It was itsued in the source of the purposes for which It was itsued in the source of the purposes for which It was itsued in the source of the source of the purposes for which It was itsued in the source of the purposes for which It was itsued in the purposes of which It was itsued in the purpose of which It was itsued in the purpose of which It was itsued in the source of which It was itsued in the purpose of which It was itsued in the purpose of which It was itsued in the purpose of which Itsue itsue itsue Feasibility S Sketch Design Planning 4 B Building Control D Design Develop 6 M Measurement T Tender 8. C Construction 9. R Record 0 17-06-22 TXP SM Issued for tender Rev Date Dwn Auth Revision © 2019 DONALD INSALL ASSOCIATES LTD Rev Date Dwn Auth Revision

NOTES

continued from dwg 1000.

Fittings and fixtures.

Allow provisional sum for bespoke made low level cupboard unit in vestry approx 450mm high comprising oak framing and centre post 100x63mm with chamfered edges, rebated for 2 no doors. Doors to be oak framed with oak veneered panels. Allow for oak veneer ply center dividing panel. Pair of hinges, knob and basic lock with escutcheon for each door in brass.

Re-fit existing flower sink in new location. Provide and fit small shelf in marine play with hw lipping on pair of brass brackets - shelf say 350mm wide x depth of sink.

Sanitary:

Twyfords close coupled doc m value pack left hand, concealed fixings, blue grab rails.

Floor finishes.

Toilet - Polyflor Standard PUR non slip vinyl sheet with cove former and vinyl taken up to base of tiling, allow for ash grey 4540 - provide sample for client approval. Provide and fix tile capping to vinyl. Vestry - new carpet tiles. Corridor - as existing.

Redecoration.

Toilet - eggshell paint to wall and ceilings - white. Vestry and corridor - vinyl emulsion - white ceiling and a standard BS to walls to be confirmed. Refurbished cupboards - satin gloss - standard BS colour to be confirmed.



Existing vestry door to be replicated to slightly narrower width, but with flat head and glazing in lieu of timber panels.

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Christ Church, Barnston

As Proposed Scale (A3)	Status	Revision
1: 50	T	0

To bo ro	ad in conjunction with drawings CD CCR 04 1000 and 2000	
Rev 0	17-06-2022 TENDER ISSUE	
This sch	edule does not necessarily indicate the order in which the works are to be carried out.	
Item	Description	Cost (£)
1 1 1	General Preliminaries: The Church is a grade 2 listed building and as such has a high level of protection. No work other than	
	that described in this schedule must be carried out. All works must be carried out to a high quality	
	commensurate with the status of the building. The existing fabric must be protected from damage at all times (eg stained glass window in vestry).	
	A programme for the work must be agreed in advance with the Architect and Employer, and access arrangements must be agreed in advance with the Employer	
	The Church will remain in use during the works.	
	Hours beyond normal working hours (Mon – Fri – 8am-5.30pm) must be agreed in advance with the Architect and Employer.	
	Contractor must provide their own generator for electicity, and water tank for water supplies.	
	The contractor's works must be segregated from the public at all times, and warning signage, barriers,	
	cordons and the like must be in place to all areas of work.	
1.2	Risk assessments and method statements are to be provided in advance of the works commencing for the following:	
	moving the safe.	
2.0	Strip out	
2.1	Relocate existing safe to vestry storage cupboards (manual handling hazard).	
2.2	Strip out existing cupboard in vestry and cart away.	
2.3	Strip out existing toilet, basin, hot water heater and plumbing and cart away.	
2.4	Strip out existing flower sink and retain for re-fixing.	
2.5	Strip out existing toilet door and vestry doors, architraves etc and cart away.	
2.6	Strip out coat hook rail. Release coat hooks and retain for re-fixing.	
2.7	Strip out vestry radiator affected by new cupboard, and associated pipework, and cart away.	
2.8	Strip out tv and mirror in vesrty and retain for re-fitting on completion. Relocate cupboard below mirror, to be directed on site.	
2.9	Remove existing alarm panel and retain for re-fixing. Strip out all wiring.	
2.10	Strip out vestry carpet and cart away.	
2.11	Demolish existing masonry toilet wall and cart away. Make good existing walls and ceilings (note - to be confirmed by structural engineer prior to commencement).	
3.0	Proposed Works	
3.0	Construct new toilet walls in solid lightwaight concrete blockwork, connected to existing walls using	
0.1	Anchon wall starter system mechanically fixed to walls. 2 no pre cast concrete lintels. Seating to new	
	vestry lintel allow to set into existing wall (detail to be confirmed by engineer).	
3.2	Plaster new walls using 2 coat plaster and skim for painting. The two external walls to the toilet are to	
	be clad up to 1.2m height using Tilemaster Delta 20mm insulated waterproof tile board, fixed as manufacturers recommendations.	
3.3	Provide and fix white ceramic tiling 150x150mm to say 1200mm height to all four toilets walls. Allow for painted sw capping to two walls above tilemaster cladding. Allow for tiling corner trim beads.	
3.4	Infill existing lower floor in toilet area using timber joists on dpc with 25mm marine ply deck.	
3.5	Provide and install new toilet, basin and grabrails, Twyfords doc m pack ref PK8255WH. Large hinged	
	door. To include 1 no. lever tap and mixing valve.	
3.6	Re fit existing fireclay Belfast flower sink in new position, using existing metal brackets, rein bolted into wall.	
3.7	Provide and install wall mounted baby change unit, vertical, by Magrini ref MV64, or equal and	
Ľ	approved.	

Itom	Description	Cost (f)
3.8	Provide and fix mirror 400x1200mm to toilet wall and 400x500mm mirror above basin.	
3.9	Provide and fit paper towel dispenser, toilet paper dispenser, soap dispenser and coat hook.	
3.10	Provide and fit new marine ply shelf with oak veneer and oak lipping on brass brackets adjacent to flower sink allow 175mm long x depth of sink, with 45 degree chamfered corner.	
3.11	Provide and fit new double doors in oak to vestry, detailed to match the existing double doors into church (but with square head not arched), each door with 8 no. panels but with toughened glass infill. Rebated oak frame and oak architraves to match church door. Non rebated meeting stiles to doors. Provide and install 1 1/2 pair butt hinges to each door leaf, flush bolts to captove door leaf, lever handles and latch, and lock with internal thumburn and external escutcheon, all in brass. It is presumed at this stage that this is not a fire door.	
3.12	Provide and fix 955mm wide 44mm thick flush solidcore door with oak veneer face and lipping to toilet, rebated oak frame and oak architraves to corridor side. Provide and install 1/2 pair butt hinges, toilet lock with external emergency release, and toilet signage.	
3.13	Provide and inatsll new oak skirting to match existing to corridor side of new toilet wall.	
3.14	Provide and install low level pipe boxing around toilet wall and box our t existing rainwater pipe.	
3.15	Provide and install new carpet tile floor covering to vestry (sample to be provided to client for approval).	
3.16	Provide and install new non slip vinyl flooring to toilet, joints welded, taken up perimeter using cove formers. Terminate on wall with tile capping.	
3.17	Redecorate toilet walls (above tiling) and ceilings using eggshell paint.	
3.18	Redecorate corridor walls, ceilings and skirtings.	
3.19	Redecorate vestry walls and ceilings.	
3.20	Provide and fit new oak coat hook board say 1500mm ling x 100x25mm with chamfered edge and re- fix retained coat hooks.	
3.21	Provide and install new low level cupboard in vestry, bespoke to fit in alcove. Rebated oak framing and centre post; 2 no. oak framed doors with oak veneered panels; oak veneered ply divider. Oak veneered ply top with oak lipping. Pair of hinges, pull knob, lock and escaution in brass to each door.	
3.22	Refurbish existing flower cupboard - allow for new doors (12 no) in flush ply for paint finish, with and new butt hinges and knobs in brass, and catches. Redecorate existing frames and new doors, colour to be confirmed by client on site.	
3.23	Re-fit the mirror to vestry wall.	
4.0	Mechanical and Electrical Works	
4.1	All m and e work is to be contractor designed based on the layout shown on the proposed plans.	
	Mechanical and drainage.	
4.2	Provide and install new heating pipework and new radiator to the vestry. Pipework to run within the void below the toiet area where possible. All pipework to be unsulated.	
4.3	Provide and install Heatrae Sadia instantaneous hot water heater to the toilet, fitted under the flower sink or shelf.	
4.4	Provide and install complete new hot and cold water supplies to the water heater, toilet, basin and flower sink. Provide and fit new bib taps to flower sink.	
4.5	Provide and install mechanical extract fan to toilet, including duct through wall and external grill. Seal all round insude and out using flexible polysuphide sealant.	
4.6	Provide and fit new svp with air admittance valve, drainage and waste pipes, inc chrome plated trap to basin.	
4.7	Connect svp to existing below ground drainage system and make good wall / floor as required.	
	Electrical.	
4.8	Provide and install new electrical wiring to toilet and to vestry lighting and power as required to suit the new layout.	
4.9	Provide and install new light fittings to toilet, corridor and vestry - Aurora Utilite circular bulkhead fittings IP65 rated 20w LED lamps, or equal and approved. Pull cord operation to toilet and MK Logic white plastic plateswitches to vestry and corridor.	
4.10	Reposition the alarm panel in lobby and rewire as required (location to be agreed with client on site).	
4.11	Provide and install panic alarm to toilet, with red pull cord and beacon in corridor above door. Provide and install re-set button.	
4.12	Reinstall the tv in the vestry.	
	Contingency	
	Total (exl vat).	

Donald Insall Architects

Christ Church, Barnston -Vestry

Vestry Works 18-11-2022

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C20 Demolition

To be read with preliminaries/general conditions

12 Note

1. it is assumed that the existing structure and substrates (e.g. roof structure, pointing and existing masonry walls etc) are in fair condition, unless otherwise mentioned in the latest quinquennial report. If during demolition it is found that the structure or substrate is not stable, damaged or rotten the church warden and vicar should be informed and further advice sought. under no circumstances should rotten, damaged or unstable structures or substrates be fixed into.

General requirements

110A Desk study/ survey

- 1. Scope: Before starting deconstruction/ demolition work, examine available information, and carry out a survey of:
 - 1.1. the structure or structures to be deconstructed/ demolished,
 - 1.2. the site on which the structure or structures stand, and
 - 1.3. the surrounding area.
- 2. Report and method statements: Submit, describing:
 - 2.1. Form, condition and details of the structure or structures, the site, and the surrounding area.
 - 2.2. Type, location and condition of features of historical, archaeological, geological or ecological importance.
 - 2.3. Type, location and condition of adjoining or surrounding premises that might be adversely affected by removal of the structure or structures, or by noise, vibration and/ or dust generated during deconstruction/ demolition.
 - 2.4. Identity and location of services above and below ground, including those required for the Contractor's use, and arrangements for their disconnection and removal.
 - 2.5. Form and location of flammable, toxic or hazardous materials, including lead-based paint, and proposed methods for their removal and disposal.
 - 2.6. Form and location of materials identified for reuse or recycling, and proposed methods for removal and temporary storage.
 - 2.7. Proposed programme of work, including sequence and methods of deconstruction/ demolition.
 - 2.8. Details of specific pre-weakening required.
 - 2.9. Arrangements for protection of personnel and the general public, including exclusion of unauthorized persons.
 - 2.10. Arrangements for control of site transport and traffic.

120 Extent of deconstruction/ demolition

 General: Subject to retention requirements specified elsewhere, deconstruct/ demolish structures down to levels indicated, refer drawings and Schedule of Works - Strip Out for items to be removed..

150 Features to be retained

1. General: Keep in place and protect the following: items not listed for removal in drawings / schedule of works.

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Services affected by deconstruction/ demolition

210 Services regulations

1. Work carried out to or affecting new and/ or existing services: Carry out in accordance with the byelaws and/ or regulations of the relevant Statutory Authority.

220 Location of services

- 1. Services affected by deconstruction/ demolition work: Locate and mark positions.
- 2. Mains services marking: Arrange with the appropriate authorities for services to be located and marked.
 - 2.1. Marking standard: In accordance with National Joint Utilities Group 'Guidelines on the positioning and colour coding of underground utilities' apparatus'.

230 Services disconnection arranged by contractor

1. General: Arrange with the appropriate authorities for disconnection of services and removal of fittings and equipment owned by those authorities prior to starting deconstruction/ demolition.

240 Disconnection of drains

- 1. General: Locate, disconnect and seal disused foul and surface water drains.
- 2. Sealing: Permanent, and within the site.

250A Live foul and surface water drains

- 1. Drains and associated manholes, inspection chambers, gullies, vent pipes and fittings
 - 1.1. Protect; maintain normal flow during deconstruction/ demolition.
 - 1.2. Make good any damage arising from deconstruction/ demolition work.
 - 1.3. Leave clean and in working order at completion of deconstruction/ demolition work.

260 Service bypass connections

- 1. General: Provide as necessary to maintain continuity of services to occupied areas of the site on which the deconstruction/ demolition is taking place and to adjoining sites/ properties.
- 2. Minimum notice to adjoining owners and all affected occupiers: 72 hours, if shutdown is necessary during changeover.

270 Services to be retained

- 1. Damage to services: Give notice, and notify relevant service authorities and/ or owner/ occupier regarding damage arising from deconstruction/ demolition.
- 2. Repairs to services: Complete as directed, and to the satisfaction of the service authority or owner.

Deconstruction/ demolition work

310 Workmanship

- 1. Standard: Demolish structures in accordance with BS 6187.
- 2. Operatives
 - 2.1. Appropriately skilled and experienced for the type of work.
 - 2.2. Holding, or in training to obtain, relevant CITB Certificates of Competence.
- 3. Site staff responsible for supervision and control of work: Experienced in the assessment of risks involved and methods of deconstruction/ demolition to be used.

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320 Gas or vapour risks

1. Precautions: Prevent fire and/ or explosion caused by gas and/ or vapour from tanks, pipes, etc.

330 Dust control

- 1. General: Reduce airborne dust by periodically spraying deconstruction/ demolition works with an appropriate wetting agent. Keep public roadways and footpaths clear of mud and debris.
- 2. Lead dust: Submit method statement for control, containment and clean-up regimes.

340 Health hazards

1. Precautions: Protect site operatives and general public from hazards associated with vibration, dangerous fumes and dust arising during the course of the Works.

370 Partly demolished structures

- 1. General: Leave in a stable condition, with adequate temporary support at each stage to prevent risk of uncontrolled collapse. Make secure outside working hours.
- 2. Temporary works: Prevent overloading due to debris.
- 3. Access: Prevent access by unauthorized persons.

380 Dangerous openings

- 1. General: Provide guarding at all times, including outside of working hours. Illuminate during hours of darkness.
- 2. Access: Prevent access by unauthorized persons.

391 Asbestos-containing materials – unknown occurrences

- 1. Discovery: Give notice immediately of suspected asbestos-containing materials when discovered during deconstruction/ demolition work. Avoid disturbing such materials.
- 2. Removal: Submit statutory risk assessments and details of proposed methods for safe removal.

410 Unforeseen hazards

- 1. Discovery: Give notice immediately when hazards such as unrecorded voids, tanks, chemicals, are discovered during deconstruction/ demolition.
- 2. Removal: Submit details of proposed methods for filling, removal, etc.

450A Site condition at completion

1. Debris: Clear away and leave the site in a tidy condition.

Materials arising - Not Used

Ω End of Section

C31DIA Access and working scaffolding

Clauses

130D Provide maintain and adapt

1. As necessary all platforms, ladders, hoists, scaffolding, etc., for the proper execution of the works including such equipment required for sub-contractors.

140D Obtain approvals

- 1. Give all statutory notices and obtain licences.
- 2. Obtain approval for general layout and for calculations where required, from local authority.
- 3. Obtain approval for general layout and method of prevention of trespass, from adjoining owners

150B Drawings

- 1. Submit in duplicate drawings of proposals for scaffolding for approval, of an extent and detail commensurate with the complexity of the proposals and with the degree to which they are critical.
- 2. Indicate loads from scaffolding and ensure that the existing floor structuere is capable of resisting such loads.
- 3. Submit in duplicate drawings of any proposals to vary approved details.
- 4. UNDER NO CIRCUMSTANCES SHOULD SCAFFOLDING TOUCH OR BEAR ONTO THE EXISTING BUILDING OR ANY OF THE GRAVES THAT SURROUND THE BUILDING. PLEASE CONSULT WITH THE CHURCH WARDEN AND VICAR BEFORE SUBMITTING DESIGNS FOR THE SCAFFOLDING.

200D Basic workmanship

1. Comply with the clauses of BS EN 12811-1: 2003 that are relevant to this section, unless otherwise specified or shown on drawings.

210D Setting out

- 1. Access to services.
- 2. Rainwater channels or drains.
- 3. Access to or escape from the building.
- 4. Access to monitoring device.

300D Board out

- 1. Ensure boards are fully supported to prevent traps.
- 2. Cut boards around ladder openings so that they lie flush, and secure boards.
- 3. Arrange boards at corners so that they lie flush.

310B Scaffold

1. is to be strong enough to support the weight of all anticipated work operatives, tools, materials and equipment.

320D Bearing pressure

- 1. other than where base plate is set on level concrete of adequate thickness or where more substantial sole is required.
- 2. Ensure that the bearing pressure of the ground or structure below the scaffold is not exceeded.

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C31DIA Access and working scaffolding Page 4 of 46

- 3. Where standards are founded on soil or loose fill, level and consolidate ground and set uprights on treated railway sleepers or similarly sized treated timbers as sole plates.
- 4. Wherever possible sole plates are to be long enough to receive at least two standards.

350D Tube ends

- 1. Cover with plastic caps wherever:
- 2. Touching or closer to the building than 100mm.
- 3. Exposed along walkways or ladder routes.

370D Hoardings

- 1. Erect hoardings to prevent unauthorised access to scaffold and to site.
- 2. Hoardings around churches to be min.4.8m high.

371D Ladders

1. Every night remove the bottom lift of all ladders set on public footpath/pavement and keep them behind a locked hoarding.

390D Clear all loose items

1. e.g., tubes, fittings, poles, boards, from the scaffolding as it is constructed and on completion.

400D Transfer scaffolding components

1. By hand, pulley or mechanical hoist. Dropping or throwing components is forbidden.

410D Unauthorized access

1. Protect the scaffold to prevent improper access from ground level and from adjoining buildings

420D Take adequate precautions

1. to protect workers and the public from any material that may fall from the scaffold.

440D Protection of public footpaths/pavements/roadways:

- 1. Erect scaffolding flush on outer face, with members set to suit fixing points for Monarflex Flamesafe Scaffold Sheeting.
- 2. Fix Monarflex Flamesafe Scaffold Sheeting to the scaffold stretched flat and overlapping, and clip at one metre centres with proprietary neoprene rubber 'T' anchors and straps, all made by Monarflex.
- 3. Maintain sheeting in position while stone cleaning and cleaning-up work is taking place.
- 4. Where scaffold set over pavement sheet the deck immediately above ground level with plywood to prevent debris failing on the walkway.

470D On completition

1. clear away all scaffolding and leave the site and any working areas beyond the site boundary in a tidy condition.

 Ω End of Section

F10 DIA Brick/ block walling

Clauses

5D SITE STORAGE

1. Store bricks/blocks in stable stacks clear of the ground and clearly identified by type, strength, grade, etc. Protect from adverse weather and keep clean and dry

36 Concrete common blockwork

- 1. Description: New Blockwork Internal Walls
- 2. Blocks: To BS EN 771-3. Solid lightweight concrete blockwork.
 - 2.1. Manufacturer: Contractor's choice
- 3. Mortar: As section Z21.
 - 3.1. Standard: To BS EN 998-2

51D BASIC WORKMANSHIP

- 1. Comply with the clauses of BS 8000- 3:2001 that are relevant to this section, unless otherwise specified or shown on drawings.
- 2. Bond where not specified: Half lap stretcher.
- 3. Mortar joints: Fill all vertical joints. Lay bricks, solid and cellular blocks on a full bed.
- 4. AAC block thin mortar adhesive and gypsum block adhesive joints: Fill vertical joints. Lay blocks on a full bed.
- 5. Clay block joints:
 - 5.1. Thin layer mortar: Lay blocks on a full bed.
 - 5.2. Interlocking perpends: Butted.
- 6. Quoins and advance work: Rack back.
- 7. Locations for equal levelling of cavity wall leaves:
 - 7.1. Every course containing vertical twist type ties or other rigid ties.
 - 7.2. Every third tie course for double triangle/ butterfly ties.
 - 7.3. Courses in which lintels are to be bedded.
- 8. Lift height (maximum) for walling using cement gauged or hydraulic lime mortar: 1.2 m above any other part of work at any time.
- 9. Daily lift height (maximum) for walling using cement gauged or hydraulic lime mortar: 1.5 m for any one leaf.
- 10. Lift height (maximum) for walling using thin joint mortar glue: 1.3 m above any other part of work at any time
- 11. Comply with the clauses of BS 8000- 3:2001 that are relevant to this section, unless otherwise specified or shown on drawings.

60 Alterations/ Extensions

- 1. Coursing: Line up with existing work.
- 2. Block bonding new walls to existing: Unless agreed otherwise cut pocket requirements as follows:
 - 2.1. Width: Full thickness of new wall.
 - 2.2. Depth (minimum): 100 mm.
 - 2.3. Vertical spacing: As follows:
 - 2.4. Brick to brick: 4 courses high at 8 course centres.

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- 2.5. Block to block: Every other course.
- 2.6. Pocket joints: Fully filled with mortar.
- 3. New and existing facework in the same plane: Bonded together at every course to achieve continuity of bond and coursing.
- 4. Support of existing work: Fully consolidate joint above inserted lintel or masonry with semidry mortar to support existing structure.

Where internal non-load bearing walls are to abut to existing external walls use Anchon wall starter system mechanically fixed to walls.

62D ACCURACY

1. Notwithstanding BS 8000- 3:2001 clause 3.1.2, and clause 60 above, comply with preliminaries clause A33/340 and any required critical dimensions given in the specification or on the drawings.

66 Fire stopping

1. Avoidance of fire and smoke penetration: Fit tightly between cavity barriers and masonry. Leave no gaps.

71D JOINTS

1. Finish mortar joints as the work proceeds

72D JOINTS IN NEW WORK

1. Cut out mortar joints square to a depth of 20mm as the work proceeds for pointing in a continuous operation when the brickwork is complete.

78D TOPS OF PARTITIONS

- 1. Unless otherwise specified finish partitions below soffits as follows:
 - 1.1. Load bearing: pin up to the soffit with dry-mix mortar well wedged and rammed into position/with slates in mortar.
 - 1.2. Non-load-bearing: fill solid at top with mortar.

 Ω End of Section

K10 DIA Plasterboard dry linings/ partitions/ ceilings

Clauses

45 Wall lining to external walls

- 1. Manufacturer: Tilemaster.
 - 1.1. Product reference: Tilemaster Delta 20mm insulated waterproof tile board.
- 2. Substrate: Existing Masonry walls
- 3. Adhesive method: Fixing as manufacturer requirements.
- 4. Location: Up to 1.2m high. Refer drawings and schedule of works.

65 Dry lining generally

- 1. General: Use fixing, jointing, sealing and finishing materials, components and installation methods recommended by board manufacturer.
- 2. Plasterboards: To BS EN 520.
- 3. Cutting plasterboards: Neatly and accurately without damaging core or tearing paper facing. Minimize cut edges.
- 4. Two layer boarding: Stagger joints between layers.
- 5. Finishing: Neatly to give flush, smooth, flat surfaces free from bowing and abrupt changes of level.

66D Fixing plasterboard to timber supports

- 1. Fix securely to all supports working from the centre of each board using the specified method of fixing at the following maximum centres:
- 2. Nails: 150 mm centres; as BS 1202-1:2002, electro-zinc plated annular ring shanked with round flat cross hatched heads.
- 3. Drywall screws: 300 mm centres for partitions/wall linings (reduced to 200 mm at external angles where recommended by the board manufacturer) and 230 mm centres for ceilings.
- 4. Position fixings not less than 10 mm from bound edges, 13 mm from cut/unbound edges and not less than 6 mm from the edge of the timber support.
- 5. Type and length of fixings as recommended in BS 8212: 1995, unless specified otherwise.

67 Skim coat plaster finish

- 1. Plaster type:
- 2. Thickness: 2-3 mm.
- 3. Joints: Fill and tape except where coincident with metal beads.
- 4. Finish: Tight, matt, smooth surface with no hollows, abrupt changes of level or trowel marks.

68D Fixings to plasterboard-faced partitions and linings

- 1. Fixing of furniture, fittings, sanitary and services items are to be in full accordance with the recommendations contained in the British Gypsum 'White Book', including the use wherever possible of additional channel noggins in suitable locations to take fixings.
- 2. Any apertures formed as a result of fixing items to acoustically rated partitions or linings are to be filled with acoustic/fire resistant sealant in accordance with manufacturer's instructions.

69 Installing beads/stops

1. Cutting: Neatly using mitres at return angles.

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- 2. Fixing: Securely using longest possible lengths, plumb, square and true to line and level, ensuring full contact of wings with substrate.
- 3. Finishing: After joint compounds/ plasters have been applied, remove surplus material while still wet from surfaces of beads exposed to view.

70 Additional supports

- 1. Framing: Accurately position and securely fix to give full support to:
 - 1.1. Partition heads running parallel with, but offset from main structural supports.
 - 1.2. Fixtures, fittings and services.
 - 1.3. Board edges and lining perimeters.

72D Maximum permitted deviations

- 1. Notwithstanding dimensions given in BS 8212: 1995, when measure as described in the BS,
 - 1.1. the deviation band for the finished surface of a partition or lining is not to exceed 4 mm.
 - 1.2. the maximum increase at the crown of joint is not to exceed 3 mm.
 - 1.3. the maximum increase at an external angle is not to exceed 4 mm.
 - 1.4. the maximum increase at an internal angle is not to exceed 5-mm.

90 Seamless jointing

- 1. Filling and taping: Fill joints, gaps and internal angles with jointing compound and cover with continuous lengths of tape, fully bedded.
- 2. Finishing: Feather out jointing compound to give a flush, smooth, seamless surface.
- 3. Nail/ screw depressions and minor indents: Fill to give a flush surface.

95D Wallboard primer

1. Apply coat of British Gypsum Gyproc Drywall Primer after jointing has dried.

 Ω End of Section

L20 Doors/ shutters/ hatches

Clauses

2 To be read with preliminaries/ general conditions.

General

110 Evidence of performance

1. Certification: Provide independently certified evidence that all incorporated components comply with specified performance requirements.

112 Timber procurement

- 1. Timber (including timber for wood-based products): Obtained from well-managed forests and/ or plantations in accordance with:
 - 1.1. The laws governing forest management in the producer country or countries.
 - 1.2. International agreements such as the Convention on International Trade in Endangered Species of wild fauna and flora (CITES).
- 2. Documentation: Provide either:
 - 2.1. Documentary evidence (which has been or can be independently verified) regarding the provenance of all timber supplied.
 - 2.2. Evidence that suppliers have adopted and are implementing a formal environmental purchasing policy for timber and wood-based products.
- 3. Certification scheme: UK Timber procurement policy Category A evidence certification scheme.
 - 3.1. Other evidence: UK Timber procurement policy Category B evidence: Completed supply chain information within attached proforma

115 Fire resisting and smoke control pedestrian doors/ door assemblies/ doorsets

- 1. CE marked fire resisting doorsets: To BS EN 16034 and in conjunction with BS EN 13241 and BS EN 14351-1 (and eventually prEN 14351-2).
- 2. Door products: As defined in BS EN 12519.
- 3. Evidence of fire performance: Provide certified evidence, in the form of a product conformity certificate, directly relevant fire test report or engineering assessment, that each door/ door assembly/ doorset supplied will comply with the specified requirements for fire resisting and/ or smoke control if tested to BS 476-22, BS EN 1634-1, BS EN 1634-3 or is CE marked to BS EN 16034. Such certification must cover door and frame materials, glass and glazing materials and their installation, essential and ancillary ironmongery, hinges and seals.
- 4. Components and assemblies will be marked to the relevant CE marking European product standard (hEN), national product standard and/ or third party certification rating.

120 Non-fire resisting pedestrian doors/ door assemblies/ doorsets

- 1. Provide certified evidence, in the form of a product conformity certificate or engineering assessment, that each pedestrian door/ doorset/ assembly supplied will comply with the specified requirements to BS EN 14351-1. Such certification must cover door and frame materials, glass and glazing materials and their installation, essential and ancillary ironmongery, hinges and seals.
- 2. Components and assemblies will be marked to the relevant CE marking Euopean product standard, national product standard and/ or third party certification rating.

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150 Site dimensions

- 1. Procedure: Before starting work on designated items take site dimensions, record on shop drawings and use to ensure accurate fabrication.
- 2. Designated items: All doors to existing openings and glazed timber screens

Products

317 Wood door frames

- 1. Description: Type 7 Simple Modern Architrave (Narrow) Painted SW
- 2. Manufacturer: Submit proposals
 - 2.1. Product reference: Softwood architrave with mitred corner. Contractor to propose 'off the shelf' profile for architect review. For details refer to dwg 3992.
- 3. Species: Softwood
- 4. Preservative treatment: N/A
- 5. Finish as delivered: Full paint system, as section M60
- 6. Perimeter seals: Not required.
- 7. Thermal performance: Unrated
- 8. Fixing: Plugged, screwed and pelleted as section Z20

421 Wood doorsets

- 1. Description: Double Leaf Oak Doors to Vestry
- 2. Manufacturer: Submit proposals
 - 2.1. Product reference: Made-to-measure bespoke timber door to match existing style of doors into church (with square head not arched) For details refer to schedule of works.
- 3. Door leaf: Solid hardwood
- 4. Core: Solid hardwood
- 5. Thickness: 44 mm (To match existing - dimension TBC on site)
 - 5.1. Wood species: Oak
 - 5.2. Panel details: To match existing doors into church. 8no. panels with toughened glass infill.
 - 5.3. Finish as delivered: Varnished (to match existing) on site as section M60
- 6. Frame and architraves: Rebated oak frame and architraves to match church door.. Non rebated meeting stiles to doors.
- 7. Preservative treatment: Required
- 8. Glazing/ Infill details: Toughened glass.
 - 8.1. Manifestation: TBA
 - 8.2. Beading: As required by manufacturer, profile TBA based on existing door used as precedent.
- Ironmongery: Manufacturer contractor to propose Items: as per schedule of work Finish: Brass
- 10. Perimeter seals: Not required
- 11. Thermal performance (U-value maximum): N/A Internal
- 12. Other requirements: Brass signage where required.
- 13. Fixing: Plugged, screwed and pelleted.

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422 Wood doorsets

- 1. Description: Single Leaf Internal Timber Door
- 2. Manufacturer: Submit proposals
 - 2.1. Product reference: Made-to-measure timber door. For details refer to schedule of works and drawings.
- 3. Door leaf: Flush solid core door, oak veneered face and lipping.
- 4. Core: Solid Core
- 5. Thickness: 44 mm
 - 5.1. Wood species: Oak
 - 5.2. Panel details: Flush.
 - 5.3. Finish as delivered: Oak Veneer
- 6. Frame and architraves: Oak Architrave
- 7. Preservative treatment: Not applicable.
- 8. Glazing/ Infill details: Not applicable
- 9. Ironmongery: Manufacturer contractor to propose Items: as per schedule of work Finish: Brass
- 10. Perimeter seals: N/A
- 11. Thermal performance (U-value maximum): N/A Internal
- 12. Other requirements: Brass signage where required.
- 13. Fixing: Plugged, screwed and pelleted.

Execution

730 Priming/ sealing

1. Wood surfaces inaccessible after installation: Primed or sealed as specified before fixing components.

760 Building in

1. General: Not permitted unless indicated on drawings.

770 Damp proof courses associated with built in wood frames

1. Method of fixing: To backs of frames using galvanized clout nails.

790 Fixing of wood frames

1. Spacing of fixings (frames not predrilled): Maximum 150 mm from ends of each jamb and at 600 mm maximum centres.

830 Fixing ironmongery generally

- 1. Fasteners: Supplied by ironmongery manufacturer.
 - 1.1. Finish/ Corrosion resistance: To match ironmongery.
- 2. Holes for components: No larger than required for satisfactory fit/ operation.
- 3. Adjacent surfaces: Undamaged.
- 4. Moving parts: Adjusted, lubricated and functioning correctly at completion.

850 Location of hinges

- 1. Primary hinges: Where not specified otherwise, positioned with centre lines 250 mm from top and bottom of door leaf.
- 2. Third hinge: Where specified, positioned: Centred on door leaf
- 3. Hinges for fire resisting doors: Positioned in accordance with door leaf manufacturer's recommendations.

 Ω End of Section

M20 Plastered/ rendered/ roughcast coatings

Types of coating

310 INTERNAL LIME: SAND PLASTER: ONTO EML

- 1. Description: Refer Drg
- 2. Substrate: Onto EML (stainless steel)
- 3. Lime manufacturer: St Astier (or equal approved)
- 4. Undercoats
 - 4.1. Mix: 1 (max) : 2 lime : sand. Exact mix proportions to be agreed after sample panel complete. 4.1.1.Lime: Hydraulic lime NHL3.5 as clause 478.
 - 4.1.2.Sand: Coarse sharp sand.
 - 4.2. Thickness (excluding dubbing out and keys): first coat pricking coat to receive following coats.
 - 4.3. Fibre reinforcement: : Hair as clause 492. Incorporate hair and beat mixture thoroughly until uniform consistency is achieved and laitance removed.
- 5. Undercoats (Second Coat):
 - 5.1. Mix: 1 (max) : 2.5 lime : sand. Exact mix proportions to be agreed after sample panel complete.
 - 5.1.1.Lime: Hydraulic lime NHL3.5 as clause 478.
 - 5.1.2.Sand: Sharp medium sand.
 - 5.2. Thickness (excluding dubbing out and keys): second coat 10-20mm
- 6. Final coat
 - 6.1. Lime Putty: As clause 481.
 - 6.2. Mix: 1:1
 - 6.2.1.Sand: Washed fine silver sand.
 - 6.2.2.Lime Putty: As clause 481.
 - 6.3. Thickness: 2-3mm
 - 6.4. Finish: Smooth finish as 777.

General

418 Control samples

1. Complete sample areas, being part of the finished work, in locations as follows: 1sqm

421 Scaffolding

1. General: Refer SoW and Clause C31DIA

424 Special protection of historic plasterwork

- 1. General: Prevent damage and disturbance to retained plasterwork.
- 2. Protection methods: Submit proposals.

Materials and marking of mortar

430 Ready-to-use cement gauged mortars

1. Time and temperature limitations: Use within limits prescribed by mortar manufacturer

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1.1. Retempering: Restore workability with water only within prescribed time limits.

478 Hydraulic lime

- 1. Standard: To BS EN 459-1.
 - 1.1. Type: Natural hydraulic lime (NHL).

481 Ready prepared lime putty

- 1. Type: Slaked directly from CL 90 quicklime to BS EN 459-1, using an excess of water.
 - 1.1. Maturation: In pits/ containers that allow excess water to drain away.
 - 1.2. Density of matured lime putty: 1.3-1.4 kg/L.
- 2. Maturation period before use (minimum): 90 days.
- 3. Storage: Prevent drying out or wetting: Protect from frost.

495 Mixing

- 1. Render mortars (site prepared)
 - 1.1. Batching: By volume. Use clean and accurate gauge boxes or buckets.
 - 1.2. Mix proportions: Based on damp sand. Adjust for dry sand.
 - 1.3. Lime:sand: Mix thoroughly. Allow to stand, without drying out, for at least 16 hours before using.
- 2. Mixes: Of uniform consistence and free from lumps. Do not retemper or reconstitute mixes.
- 3. Contamination: Prevent intermixing with other materials.

497 Cold weather

- 1. General: Do not use frozen materials or apply coatings on frozen or frost bound substrates.
- 2. External work: Avoid when air temperature is at or below 5°C and falling or below 3°C and rising. Maintain temperature of work above freezing until coatings have fully hardened.
- 3. Internal work: Take precautions to enable internal coating work to proceed without detriment when air temperature is below 3°C.

Preparing substrates

510 Suitability of substrates

- 1. Soundness: Free from loose areas and significant cracks and gaps.
- 2. Cutting, chasing, making good, fixing of conduits and services outlets and the like: Completed.
- 3. Tolerances: Permitting specified flatness/ regularity of finished coatings.
- 4. Cleanliness: Free from dirt, dust, efflorescence and mould, and other contaminants incompatible with coatings.

551 Removal and renewal of existing plaster/ render

1. Location and extent: Agree, at least on a provisional basis, before work commences. Minimize extent of removal and renewal.

566 Removing defective existing plaster

1. Plaster for removal: Detached, soft, friable, badly cracked, affected by efflorescence or otherwise damaged.

1.1. Hollow, detached areas:

- 2. Stained plaster:
- 3. Removing defective plaster. Cut back to a square, sound edge.

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- 4. Faults in substrate (structural deficiencies, damp, etc.): Submit proposals.
- 5. Cracks
 - 5.1. Fine hairline cracking/ crazing: Leave.
 - 5.2. Other cracks:
- 6. Dust and loose material: Remove from exposed substrates and edges.

Backings/ beads/ joints

646 Crack control at junctions between dissimilar solid substrates

- 1. Locations: Where defined movement joints are not required. Where dissimilar solid substrate materials are in same plane and rigidly bonded or tied together.
- 2. Crack control materials
 - 2.1. Isolating layer: Building paper to BS 1521.
 - 2.2. Metal lathing:
- 3. Installation: Fix metal lathing over isolating layer. Stagger fixings along both edges of lathing.
- 4. Width of installation over single junctions
 - 4.1. Isolating layer: 150 mm.
 - 4.2. Lathing: 300 mm.
- 5. Width of installation across face of dissimilar substrate material (column, beam, etc. with face width not greater than 450 mm)
 - 5.1. Isolating layer: 25 mm (minimum) beyond junctions with adjacent substrate.
 - 5.2. Lathing: 100 mm (minimum) beyond edges of isolating layer.

Mouldings/ decorative plasterwork - Not Used

Internal plastering

710 Application generally

- 1. Application of coatings: Firmly and in one continuous operation between angles and joints. Achieve good adhesion.
- 2. Appearance of finished surfaces: Even and consistent. Free from rippling, hollows, ridges, cracks and crazing.
 - 2.1. Accuracy: Finish to a true plane, to correct line and level, with angles and corners to a right angle unless specified otherwise, and with walls and reveals plumb and square.
- 3. Drying out: Prevent excessively rapid or localized drying out.

715 Flatness/ surface regularity

- 1. Sudden irregularities: Not permitted.
- 2. Deviation of plaster surface: Measure from underside of a straight edge placed anywhere on surface.
 - 2.1. Permissible deviation (maximum) for plaster not less than 13 mm thick: 3 mm in any consecutive length of 1800 mm.

718 Junction of new plasterwork with existing

1. New plasterwork: Finish flush with original face of existing plasterwork to form a seamless junction.

725 Undercoats generally

1. General: Rule to an even surface. Cross scratch to provide a key for the next coat.

2. Undercoats on metal lathing: Work well into interstices to obtain maximum key.

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M20 Plastered/ rendered/ roughcast coatings Page 16 of 46 3. Undercoats gauged with Portland cement: Do not apply next coat until drying shrinkage is substantially complete.

742 Thin coat plaster

1. Preparation for plasters less than 2 mm thick: Fill holes, scratches and voids with finishing plaster.

777 Smooth finish

1. Appearance: A tight, matt, smooth surface with no hollows, abrupt changes of level or trowel marks. Avoid water brush, excessive trowelling and over polishing.

External rendering - Not Used

 Ω End of Section

M40 Stone/ concrete/ quarry/ ceramic tiling/ mosaic

Clauses

2 To be read with preliminaries/ general conditions.

Types of tiling/ mosaic

110 Tiling to

- 1. Description: Wc's generally
- 2. Tiles: Walls refer to dwgs & Schedule of works for extent
 - 2.1. Manufacturer/ Supplier: Johnson Tiles or similar approved
 - 2.1.1.Product reference: Range Select Collection Artic White, Code AA073YATIC2A034
 - 2.2. Colour: Arctic White
 - 2.3. Finish: Gloss
 - 2.4. Size: 150mmx150mm
 - 2.5. Thickness: 8mm
 - 2.6. Slip potential:
 - 2.6.1.Slip resistance value (SRV) (minimum)/ Pendulum test value (PTV) (minimum) to BS 7976-1, -2 and -3: Not applicable
 - 2.6.2. Surface roughness (Rz) (minimum) BS 1134: Not applicable
 - 2.6.3.Ramp test class: Not applicable
 - 2.7. Recycled content: Not applicable
- 3. Background/ Base: Lime plaster/modern gypsum plaster/Glasroc H Tile Backer board
 - 3.1. Preparation: To manufacturers recommendations
- 4. Intermediate substrate: Not required
- 5. Adhesive: Norcros Standard-Set-Flexible-S1-Grey-Tile-Adhesive in accordance with manufacturers data sheet
- 6. Joint width: 2mm as Norcros recommendations
- 7. Grout:
 - 7.1. Type: Norcros 4-Into-1-Wall-And-Floor-Tile-Grout in accordance with manufacturers data sheet
 - 7.2. Colour: Arctic White
- 8. Movement joints: To manufacturers recommendations
- 9. Accessories: See clause 111 All external corners and exposed tile edges to be trimmed with finishing strip

111 Tiling to

- 1. Description: Wc's generally
- 2. Tiles: Skirtings and Finishing Strips refer to dwgs for extent
 - 2.1. Manufacturer/ Supplier: Johnson Tiles or similar approved
 - 2.1.1.Product reference: Range Minton Hollins Collection:
 - Square tile MH8A
 - Finishing Strip MFS8

2.2. Colour: Earl Grey

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- 2.3. Finish: Gloss
- 2.4. Size: Skirting Tile: 150 x 150 x 8mm Finishing strip: 150 x 12 x 8mm
- 2.5. Thickness: see above
- 2.6. Slip potential:
 - 2.6.1.Slip resistance value (SRV) (minimum)/ Pendulum test value (PTV) (minimum) to BS 7976-1, -2 and -3: Not applicable
 - 2.6.2. Surface roughness (Rz) (minimum) BS 1134: Not applicable
 - 2.6.3.Ramp test class: Not applicable
- 2.7. Recycled content: Not applicable
- 3. Background/ Base: Lime plaster/modern gypsum plaster/Glasroc H Tile Backer board
 - 3.1. Preparation: To manufacturers recommendations
- 4. Intermediate substrate: Not required
- 5. Adhesive: Norcros Standard-Set-Flexible-S1-Grey-Tile-Adhesive in accordance with manufacturers data sheet
- 6. Joint width: 2mm as Norcros recommendations
- 7. Grout: To manufacturers recommendations
 - 7.1. Type: Norcros 4-Into-1-Wall-And-Floor-Tile-Grout in accordance with manufacturers data sheet
 - 7.2. Colour: Arctic White
- 8. Movement joints: To manufacturers recommendations
- 9. Accessories: None

General

210 Suitability of backgrounds/ bases

- 1. Background/ base tolerances: To permit specified flatness/ regularity of finished surfaces given the permissible minimum and maximum thickness of bedding.
- 2. New background drying times (minimum):
 - 2.1. Concrete walls: 6 weeks.
 - 2.2. Brick/ block walls: 6 weeks.
 - 2.3. Rendering: 2 weeks.
 - 2.4. Gypsum plaster: 4 weeks.
- 3. New base drying times (minimum):
 - 3.1. Concrete slabs: 6 weeks.
 - 3.2. Cement:sand screeds: 3 weeks.

250 Samples

1. General: Submit representative samples of the following: - Each type of tile- Each type of tile laid in four grout colours for selection and approval

260 Control samples

- 1. General: Complete sample areas, being part of finished work, in locations as follows: Location to be agreed allow for two tiling locations and to stone flooring locations
 - 1.1. Approval of appearance: Obtain before proceeding.
- 2. Floor covering slip resistance testing: Not required

Preparation

330 Existing plaster

- 1. Defective areas: Remove plaster that is loose, soft, friable, badly cracked or affected by efflorescence. Cut back to straight horizontal and vertical edges.
- 2. Making good: Use plaster or nonshrinking filler.

360 Existing paint

1. Paint with unsatisfactory adhesion: Remove so as not to impair bedding adhesion.

380 New plaster

- 1. Plaster: Dry, solidly bedded, free from dust and friable matter.
- 2. Plaster primer: Apply if recommended by adhesive manufacturer.

390 Plasterboard backgrounds

1. Boards: Dry, securely fixed and rigid with no protruding fixings and face to receive decorative finish exposed.

460 Smoothing underlayment

- 1. Type: Recommended by adhesive manufacturer.
- 2. Condition: Allow to dry before tiling.

Fixing

510 Fixing generally

- Colour/ shade: Unintended variations within tiles for use in each area/ room are not permitted.
 1.1. Variegated tiles: Mix thoroughly.
- 2. Adhesive: Compatible with background/ base. Prime if recommended by adhesive manufacturer.
- 3. Use of admixtures with cementitious adhesives: Only admixtures approved by adhesive manufacturer.
- 4. Cut tiles: Neat and accurate.
- 5. Fixing: Provide adhesion over entire background/ base and tile backs.
- 6. Final appearance: Before bedding material sets, make adjustments necessary to give true, regular appearance to tiles and joints when viewed under final lighting conditions.
- 7. Surplus bedding material: Clean from joints and face of tiles without disturbing tiles.

530 Setting out

- 1. Joints: True to line, continuous and without steps.
 - 1.1. Joints on walls: Horizontal, vertical and aligned round corners.
 - 1.2. Joints in floors: Parallel to the main axis of the space or specified features.
- 2. Cut tiles: Minimise number, maximise size and locate unobtrusively.
- 3. Joints in adjoining floors and walls: Align.
- 4. Joints in adjoining floors and skirtings: Align.
- 5. Movement joints: Where locations are not indicated, submit proposals.
- 6. Setting out of: WC tiling : Drawing references: as issue sheet
- 7. Setting out of: WC tiling: Submit proposals.

550 Flatness/ regularity of tiling/ mosaics

- 1. Sudden irregularities: Not permitted.
- Deviation of surface: Measure from underside of a 2 m straightedge with 3 mm thick feet placed anywhere on surface. The straightedge should not be obstructed by the tiles and no gap should be greater than 6 mm, i.e. a tolerance of: <u>+</u> 3 mm.

560 Level of tiling across joints

- 1. Deviation (maximum) between tile surfaces either side of any type of joint:
 - 1.1. 1 mm for joints less than 6 mm wide.
 - 1.2. 2 mm for joints 6 mm or greater in width.

570 Mortar bedding

- 1. Bedding mix:
 - 1.1. Cement: Portland to BS EN 197-1, type CEM I/42.5.
 - 1.2. Sand for walls: Fine aggregate to BS EN 13139.
 - 1.2.1.Grading designation: 0/2 (CP or MP) category 2 fines.
 - 1.3. Sand for floors: Fine aggregate to BS EN 13139.
 - 1.3.1.Grading designation: 0/4 (MP) category 1 fines and between 20%-66% passing a 0.5 sieve.
- 2. Batching: Select from:
 - 2.1. Batch by weight.
 - 2.2. Batch by volume: Permitted on the basis of previously established weight:volume relationships of the particular materials. Use accurate gauge boxes. Allow for bulking of damp sand.
- 3. Mixing: Mix materials thoroughly to uniform consistence. Use a suitable forced action mechanical mixer. Do not use a free fall type mixer.
- 4. Application: At normal temperatures use within two hours. Do not use after initial set. Do not retemper.

578 Crack control reinforcement

- 1. Type to BS 4483: D49
- 2. Installation: Place centrally in depth of bed. Lap not less than 100 mm and securely tie together with steel wire.
- 3. Corners: Avoid a four layer build at corners.

600 Sit-on tile skirtings

- 1. Sequence: Bed solid to wall after laying floor tiles.
- 2. Bedding: See clause 111

650 Adhesive bed - notched trowel method (walls)

- Application: By 3 mm floated coat of adhesive to dry background in areas of approximately 1 m². Comb surface.
- 2. Tiling: Press tiles firmly onto float coat.

651 Adhesive bed - notched trowel and buttering method (walls)

- 1. Application: By floated coat of adhesive to dry background in areas of about 1 m². Comb surface.
- 2. Tiling: Apply thin even coat of adhesive to backs of dry tiles. Fill any ribbed, deep keyed or button profiles. Press tiles firmly onto float coat.

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M40 Stone/ concrete/ quarry/ ceramic tiling/ mosaic Page 21 of 46 3. Finished adhesive thickness: 3 mm or within the range allowed by the adhesive manufacturer.

652 Adhesive bed - buttering method (walls)

- 1. Tiling: Apply even coat of adhesive to backs of dry tiles. Fill any ribbed, deep keyed or button profiles.
- 2. Finished adhesive thickness: 3 mm or within the range allowed by the adhesive manufacturer.

Movement joints/ grouting/ completion

875 Grouting

- 1. Sequence: Grout when bed/adhesive has set sufficient to prevent disturbance of tiles.
- 2. Joints: 6 mm deep (or depth of tile if less). Free from dust and debris.
- Grouting: Fill joints completely, tool to profile, clean off surface. Leave free from blemishes.
 3.1. Profile: Slightly concave
- 4. Polishing: When grout is hard, polish tiling with a dry cloth.

885 Coloured grout

- 1. Staining of tiles: Not permitted.
- 2. Evaluating risk of staining: Apply grout to a few tiles in a small trial area. If discoloration occurs apply a protective sealer to tiles and repeat trial.

Performance - Not Used

 Ω End of Section

M50 Rubber/ plastics/ cork/ lino/ carpet tiling/ sheeting

Clauses

2 To be read with preliminaries/ general conditions.

Types of covering

130 Carpet tiling

- 1. Location: As per drawings / schedule of works
- 2. Base: Existing Timber floorboards with plywood underlay.
 - 2.1. Preparation: Existing bases as clause 420- New bases as clause 410
- 3. Fabricated underlay: See above
- 4. Carpet tiles:
 - 4.1. Manufacturer: Amtico or Gradus or similar approved
 - 4.1.1.Product reference: Foundry Range or Stratus Range
 - 4.2. Type: As Product Range
 - 4.3. BS EN 1307 classification:
 - 4.3.1.Levels of use class: 32
 - 4.3.2.Luxury rating class: As Product Range
 - 4.3.3.Additional performance properties to BS EN 1307: Castor chair suitability (Intensive use);- Antistatic behaviour;- Acoustic properties (Impact sound insulation);- Acoustic properties (Sound absorption); and- Suitability occasional humid conditions (Dimensional stability)
 - 4.4. Recycled content: NA
 - 4.5. Size: 500 x 500 mm
 - 4.6. Colour/ pattern: As Product Range
- 5. Method of laying: Fully adhere all tiles with release adhesive recommended by tile manufacturer
- 6. Accessories: Edging strip at thresholds as clause 740
- 7. Other requirements: Allow for samples as clause 220. Allow for control sample as clause 230

149 Vinyl

- 1. Description: New Vinyl Non-Slip Flooring to Toilet
- 2. Location: Refer drawings and schedule of works
- 3. Base: Existing
 - 3.1. Preparation for floorboards as clause 520
 - 3.2. Fabricated underlay Plywood as clause 560
- 4. Flooring roll: Homogenous PVC to BS EN 13845.
 - 4.1. Manufacturer: Altro Floors or similar approved.
 - 4.1.1.Product reference: Altro Suprema 2mm thick Safety Floor
 - 4.2. BS EN ISO 10874 class: 34/43.
 - 4.3. Slip potential:
 - 4.3.1.Slip resistance value (SRV) (minimum)/ Pendulum test value (PTV) (minimum) to BS 7976-1, -2 and -3: =36 (wet).
 - 4.3.2.Surface roughness (Rz) (minimum) to BS 1134: =20 (wet).

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- 4.4. Recycled content: 5%
- 4.5. Width: 2000mm
- 4.6. Thickness: 2mm
- 4.7. Colour/ pattern: TBC.
- 5. Adhesive (and primer if recommended by manufacturer): Altrofix 19 Plus.
- 6. Seam welding: Hot-welding with matching Altro Welding Rod, as clause 680.
- 7. Finishing: Initial Clean before Use:
 - 7.1. Sweep up and remove all loose debris, dirt and dust. Ensure all traces of adhesives are removed.
 - 7.2. Clean the floor with appropriately diluted neutral pH cleaning solution*.
 - 7.3. For larger areas, use a scrubber dryer or rotary machine (150-300 rpm) with a 3M red pad or equivalent. Pick up dirty water, rinse with clean water and allow to dry.
 - 7.4. For small areas use a mop in place of the scrubber dryer, rinse and allow to dry.
- 8. Other requirements:
 - 8.1. Design: TBC. Allow for a three colour design with double banded border detail all round. Border features and seam welding to be carried out in accordance with manufacturers guide lines.
 - 8.2. Allow for samples as clause 220.
 - 8.3. Allow for control sample as clause 230.

General requirements

210 Workmanship generally

- 1. Base condition after preparation: Rigid, dry, sound, smooth and free from grease, dirt and other contaminants.
- 2. Finished coverings: Accurately fitted, tightly jointed, securely bonded, smooth and free from air bubbles, rippling, adhesive marks and stains.

220 Samples

1. Before placing orders, submit for approval a representative sample of each type of covering. Ensure that delivered materials match samples.

230 Control sample(s)

1. Complete area(s) of the finished work for each type of covering in approved location(s), and obtain approval of appearance before proceeding. To include seam welding, coving, stair nosing, pattern inlay et cwhere relevant to each covering.

250 Layout - roll materials

1. Setting out of seams: Agree setting out for sheeting types M50/: 149, 151, 152

270 Extra material

1. Provide 5% extra of each type of covering to be handed over to the Employer at completion.

310 Marking

1. Ensure that materials are delivered to site in original packing, clearly marked with batch number.

320 Storage

1. Store materials in a clean, warm, dry, well ventilated place. Keep in original packing until conditioning commences.

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330 Commencement

- 1. Required condition of works prior to laying materials:
 - 1.1. Building is weathertight and well dried out.
 - 1.2. Wet trades have finished work.
 - 1.3. Paintwork is finished and dry.
 - 1.4. Conflicting overhead work is complete.
 - 1.5. Floor service outlets, duct covers and other fixtures around which materials are to be cut are fixed.
- 2. Notification: Submit not less than 48 hours before commencing laying.

340 Conditioning

- 1. Prior to laying: Condition materials by unpacking and separating in spaces where they are to be laid. Maintain resilient flooring rolls in an upright position. Unroll carpet and keep flat on a supporting surface.
- Conditioning time and temperature (minimum): As recommended by manufacturer with time extended by a factor of two for materials stored or transported at a temperature of less than 10°C immediately prior to laying.

350 Environment

- 1. Temperature and humidity: Before, during and after laying, maintain approximately at levels which will prevail after building is occupied.
- 2. Ventilation: Before during and after laying, maintain adequate provision.

Preparing bases

410 New bases

1. Suitability of bases and conditions within any area: Commencement of laying of coverings will be taken as acceptance of suitability.

420 Existing bases

- 1. Notification: Before commencing work, confirm that existing bases will, after preparation, be suitable to receive coverings.
- 2. Suitability of bases and conditions within any area: Commencement of laying of coverings will be taken as acceptance of suitability.

430 New wet laid bases

- 1. Base drying aids: Not used for at least four days prior to moisture content testing.
- Base moisture content test: Carry out in accordance with BS 5325, Annexe A or BS 8203, Annexe A.
 - 2.1. Locations for readings: In all corners, along edges, and at various points over area being tested.
- 3. Commencement of laying coverings: Not until all readings show 75% relative humidity or less.

440 Substrates to receive thin coverings

1. Trowelled finishes: Uniform, smooth surface free from trowel marks and other blemishes. Abrade suitably to receive specified floor covering material.

460A Smoothing/ levelling underlayment compound

1. Type: As recommended by covering manufacturer

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- 2. Manufacturer: Ardex UK Ltd
 - 2.1. Product reference: Arditex 'NA' smoothing compound
 - 2.2. Apply to base at a minimum thickness of 3mm in accordance with manufacturer's product data sheet incorporating aggregate for applications more than 12mm thick. Allow to dry before laying floor tiling/sheeting.

470 Bases from which existing floor coverings have been removed

1. Substrate: Clear of covering and as much adhesive as possible. Skim with smoothing underlayment compound to give smooth, even surface.

480 Existing floor coverings to be overlaid

1. Substrate: Make good by local resticking and patching or filling with smoothing underlayment compound to give smooth, even surface.

520 Timber boarding/ strip flooring

1. Substrate: Boards/ strips securely fixed and acceptably level with no protruding fasteners. Plane, sand or apply smoothing underlayment compound to give a smooth, even surface.

560A Plywood underlay

- 1. Substrate: As noted on Drawing.
 - 1.1. Condition: Sound and acceptably level.
 - 1.2. Preparation: Gross irregularities removed or filled. Protruding fasteners removed or punched in.
- 2. Underlay: Plywood to BS EN 636.
- 3. Standard: An approved national standard.
- 4. Bonding quality: To BS EN 314-2 class: 3
- 5. Appearance: To BS EN 635 class: IV
- 6. Finish: Sanded
- 7. Thickness: 6 mm
- 8. Sheet size: 2400 x 1200 mm
- 9. Substrate: Existing floor boards securely fixed and acceptably level with no gross irregularities or protruding fasteners.
- 10. Laying sheets: Stagger cross joints such that no joint within base and underlay is coincident and with a 0.5-1 mm gap between sheets.
- 11. Fasteners: 25 mm ringed shank or twisted shank nails or divergent staples.
 - 11.1. Spacing: Commencing at centre of one side of each sheet, at 150 mm grid centres over area of each sheet and at 100 mm centres along perimeter, set in 12 mm from edge.
 - 11.2. Placement: Driven with heads set flush with surface, and not projecting through underside of base. Not deformed.

Laying coverings

610 Setting out tiles

- 1. Method: Set out from centre of area/ room, so that wherever possible:
 - 1.1. Tiles along opposite edges are of equal size.
 - 1.2. Edge tiles are more than 50% of full tile width.

620 Colour consistency

1. In any one area/room use only coverings from the same production batch to prevent banding or patchiness resulting from colour/flash variation.

640 Adhesive fixing generally

- 1. Adhesive type: As specified, as recommended by covering/ underlay manufacturer or as approved.
- 2. Primer: Type and usage as recommended by adhesive manufacturer.
- 3. Application: As necessary to achieve good bond.
- 4. Finished surface: Free from trowel ridges, high spots caused by particles on the substrate, and other irregularities.

641 Adhesive fixing – altro sheet flooring

- 1. Place the material in position on the floor, allowing at least 25 mm each end for trimming, and overlapping at least 15 mm at joints.
- 2. Cut-in material along joints.
- 3. Fold (do not roll) the material back along half its length. When adhesive is ready, refold material back onto adhesive. Repeat for second half of material.
- 4. Consult data sheet on rolling requirements.

651 Borders/feature strips

- 1. Of sheet material
 - 1.1. Cut strips along the length of the sheet to prevent curl.
 - 1.2. Mitre joints at corners.

680 Seam welding

- 1. Do not commence welding of coverings until a minimum of 24 hours after laying or until adhesive has completely set.
- 2. Cut groove, 3 mm wide by 2/3 the depth of material, evenly along each joint using:
 - 2.1. Altro hand grooving tool or
 - 2.2. Automatic grooving machine fitted with diamond blade.
- Hot-weld using hot air welding gun (fitted with high speed welding nozzle) and Altro welding rod. Select colour of rod to match floor covering. Cut off surplus weld rod with spatula. Do not chemical weld.
- 4. Form a neat, smooth, strongly bonded joint, flush with finished surface.
- 5. Cut Altro butterfly mitres at internal and external corners.

720 Doorways

1. Joint location: On centre line of door leaf.

731 Sealant

- 1. Manufacturer and reference: Altromastic 100 by Altro Floors, colour to match floorcovering.
- 2. Location: To all exposed edges of flooring material around all protrusions through floor and pipework as necessary.

740A Edgings and cover strips - brass

- 1. Manufacturer: Gradus or equal approved.
 - 1.1. Product reference: Luxury Trim System threshold strips to be selected from this range to suit junction between different floor finishes as noted on dwgs 0081, 0083, 0084.

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- 1.2. Material/ finish: Polished Brass.
- 1.3. Fixing: In accordance with manufacturers recommendations.
- 1.4. Samples: Provide samples for approval before placing order.
- 1.5. Controlled Sample: Install sample in agreed location for approval before placing order.

770 Skirtings

- 1. Types: PVC
- 2. Manufacturer: Altro or similar approved
 - 2.1. Product reference: Manufacturers recommendations to suit sheet product
- 3. Fixing: Secure with top edge straight and parallel with floor.
 - 3.1. Corners: Mitre joints.

780 Trafficking after laying

- 1. Covering types: All
- 2. Traffic free period: Until adhesive is set

Completion

861 Slip resistance testing

- 1. Testing authority: An approved laboratory
- 2. Floor covering(s) to be tested: M50/151
- 3. Test: To BS 7976-1, -2 and -3.
 - 3.1. Floor covering condition: Wet
 - 3.2. Witnessing/ Certification: Arrange for tests to be witnessed/ certified by: Contract Administrator
- 4. Report: Submit.

870 Protection

1. Cover flooring with clean dust sheets, or other nonstaining suitable material to prevent damage from dirt and traffic prior to Practical Completion. Ensure any material with printed information on one face is laid with printed face uppermost.

880 Waste

1. Spare covering material: Retain suitable material for patching. On completion submit pieces for selection. Hand over selected pieces to Employer.

Ω End of Section

M60 Painting/clear finishing

Clauses

2 To be read with preliminaries/general conditions.

Coating systems

110 Internal Paint

- 1. Description: TO INTERNAL PLASTERED SURFACES (above tiling)
- 2. Manufacturer:
 - 2.1. Product reference: Clean Extreme Stain Resistant Scrubbable Matt
- 3. Manufacturer: Crown Trade, product of Crown Paints Ltd
- 4. Finish: Matt.
- 5. Pigment: Titanium dioxide, coloured pigments and extenders.
- 6. Binder: Acrylic polymer.
- 7. Solvent: Water.
- 8. Drying time: Recoatable after four hours under normal drying conditions.
- 9. Wet film thickness (minimum): 71 micrometres at 14 m²/ litre.
- 10. Dry film thickness: 25 micrometres at 14 m²/ litre.
- 11. VOC content: EU limit value for this product (cat.A/a): 30 g/L (2010). This product contains maximum 30 g/L VOC.
- 12. Coverage: Up to 14 m^2 / litre on smooth surfaces.
- 13. Surfaces:

13.1. Preparation: As manufacturers requirements.

- 14. Undercoats: 1 mist coat to new plaster
- 15. Finishing coats: 2 colour TBC

111 Paint to external timberwork

- 1. Manufacturer: Dulux.
 - 1.1. Product Reference: Weathersheild exterior quick drying gloss.
- 2. Surface(s): Bare timber OR previously decorated.
 - 2.1. Preparation: In accordance with manufacturer's data sheet and clauses 400A, 440, 461, 471 and 481.
- 3. Primer to bare timber: Aquatec preservative primer
 - 3.1. Number of Coats: 2.
- 4. Undercoats: Weathersheild quick drying undercoat.
 - 4.1. Number of coats: 1.
- 5. Finishing coats: Weathersheild exterior quick drying gloss.
 - 5.1. Number of coats: 2.
 - 5.2. Colour: RAL 9005 Jet Black

150 Water-based finishing coats

- 1. Description: TO INTERNAL EXPOSED SOFTWOOD
- 2. Manufacturer:

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- 2.1. Product reference: Fastflow Quick Dry Eggshell
- 3. Manufacturer: Crown Trade, product of Crown Paints Ltd
- 4. Sheen: Eggshell.
- 5. Colour: TBC
- 6. Drying time: In good conditions: touch dry after 1–2 hours and re-coatable in 4–6 hours. Ensure previous coat is fully dry before application. At low temperatures or high humidity, drying times may be extended.
- 7. Wet film thickness (minimum): 67 micrometres at 15 m²/L.
- 8. Dry film thickness (minimum): 27 micrometres at 15 m²/L.
- 9. VOC content: 8 g/L (maximum).
- 10. Pigment: Titanium dioxide and coloured pigments.
- 11. Binder: Alkyd emulsion.
- 12. Solvent: Water.
- 13. Coverage: Up to 15 m²/L depending on surface texture.
- 14. Surfaces:

14.1. Preparation: Ensure surfaces are clean and dry

15. Initial coats: As recommended by manufacturer

Generally

215A Handling and storage

- 1. Coating materials: Deliver in sealed containers, labelled clearly to show:
 - 1.1. Maker's name, initials or recognised trade mark
 - 1.2. Title and specification number
 - 1.3. Whether primer, undercoat or finishing coat
 - 1.4. Whether for internal or external use, where appropriate
 - 1.5. Colour reference, from BS 4800: 2011 where appropriate
 - 1.6. Method of application
 - 1.7. Batch number and date of despatch or re-test
 - 1.8. Detailed instruction for storage and use if highly flammable or toxic
 - 1.9. Statutory markings
- 2. Wherever possible materials must be from one manufacturing batch
- 3. Materials from more than one batch: Store separately. Allocate to distinct parts or areas of the work.
- 4. Store materials in accordance with manufacturer's recommendations. Use in order of delivery and before expiry of any shelf life date.

220 Compatibility

- 1. Coating materials selected by contractor
 - 1.1. Recommended by their manufacturers for the particular surface and conditions of exposure.
 - 1.2. Compatible with each other.
 - 1.3. Compatible with and not inhibiting performance of preservative/fire retardant pretreatments.

230 Anicillary surfaces

1. The descriptions of areas to be coated given in schedules, etc. are of necessity simplified. All ancillary exposed surfaces and features are to be coated to match similar or adjacent materials or

areas except where a fair faced natural finish is required or items are completely prefinished. In cases of doubt obtain instructions before proceeding.

260 Off site work

- 1. All off site preparation and coating to be carried out under cover in a suitable environment with adequate lighting.
- 2. Store all items, both before and after coating, in a clean, dry area protected from the weather and mechanical damage, properly stacked with spaces to permit air circulation and prevent sticking of surfaces.

280A Protection

- 1. Adequately protect internal and external surfaces, fixtures and fittings which are not to be coated, by covering with dust sheets, masking or other suitable materials.
- 2. Exhibit 'Wet paint' signs and provide barriers where necessary to protect other operatives and the general public, and to prevent damage to freshly applied coatings.

Preparation

400A Preparation generally

- 1. Standard: In accordance with BS 6150.
- 2. Refer to any pre-existing CDM Health and Safety File.
- 3. Refer to CDM Construction Phase Plan where applicable.
- 4. Suspected existing hazardous materials: Prepare risk assessments and method statements covering operations, disposal of waste, containment and reoccupation, and obtain approval before commencing work.
- 5. Preparation materials: Materials used in preparation must be types recommended by their manufacturers and the coating manufacturer for the situation and surfaces being prepared.
- 6. Prevent or control exposure of operatives to dust, vapour and fumes exceeding occupational exposure standards set in the current Health and Safety Executive (HSE) document EH40
- 7. Substrates: Substrates must be sufficiently dry in depth to suit the coating to be applied.
- 8. Efflorescence salts: Remove but do not wet efflorescence salts from surfaces. Repeat removal if efflorescence recurs.
- 9. Dirt, grease and oil: Clean off dirt, grease and oil from surfaces. If contamination of surfaces/substrates has occurred, obtain instructions before proceeding.
- 10. Smooth surface irregularities. Fill joints, cracks, holes and other depressions with stoppers/fillers worked well in and finished off flush with surface. Abrade to a smooth finish. Apply oil based stoppers/fillers after priming. Apply water based stoppers/fillers before priming unless recommended otherwise by manufacturer. Patch prime water based stoppers/fillers when applied after priming. Remove dust and particles from dry abrasive preparation of surfaces with vacuum cleaner. Remove residues from wet preparation of surfaces by rinsing with clean water and wiping dry. Ensure that doors, opening windows, etc., are 'eased' as necessary before coating. Prime any resulting bare areas. Provide sufficient clean dust sheets and coverings to protect floors and all other surfaces. Exhibit 'Wet Paint' signs and provide protective barriers as required. Use only non-ferrous bristle brushes to clean surfaces. Remove all dry dust by vacuum. Remove wet abrasion dust by washing with clean water.

410D Suitability of surfaces and conditions

1. Application of coatings will be taken as joint acceptance by the Main Contractor and the Painting Contractor of the suitability of surfaces and conditions within any given area to receive the specified coatings.

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440 Previously coated surfaces generally

- 1. Preparation: In accordance with BS 6150, clause 11.5.
- 2. Contaminated or hazardous surfaces: Give notice of:
 - 2.1. Coatings suspected of containing lead.
 - 2.2. Substrates suspected of containing asbestos or other hazardous materials.
 - 2.3. Significant rot, corrosion or other degradation of substrates.
- 3. Suspected existing hazardous materials: Prepare risk assessments and method statements covering operations, disposal of waste, containment and reoccupation, and obtain approval before commencing work.
- 4. Removing coatings: Do not damage substrate and adjacent surfaces or adversely affect subsequent coatings.
- 5. Loose, flaking or otherwise defective areas: Carefully remove to a firm edge.
- 6. Alkali affected coatings: Completely remove.
- 7. Retained coatings
 - 7.1. Thoroughly clean to remove dirt, grease and contaminants.
 - 7.2. Gloss coated surfaces: Provide key.
- 8. Partly removed coatings
 - 8.1. Additional preparatory coats: Apply to restore original coating thicknesses.
 - 8.2. Junctions: Provide flush surface.
- 9. Completely stripped surfaces: Prepare as for uncoated surfaces.

461 Previously coated wood

- 1. Degraded or weathered surface wood: Take back to provide suitable substrate.
- 2. Degraded substrate wood: Repair with sound material of same species.
- 3. Exposed resinous areas and knots: Apply two coats of knotting.

471 Preprimed wood

1. Areas of defective primer: Take back to bare wood and reprime.

481 Uncoated wood

- 1. General: Provide smooth, even finish with arrises and moulding edges lightly rounded or eased.
- 2. Heads of fasteners: Countersink sufficient to hold stoppers/fillers.
- 3. Resinous areas and knots: Apply two coats of knotting.

500 Preprimed steel

1. Areas of defective primer, corrosion and loose scale: Take back to bare metal. Reprime as soon as possible.

505 Preprimed cast iron rainwater goods

1. Areas of defective primer, corrosion and loose scale: Report back to manufacturer and seek replacement unit.

511 Galvanized, sherardized and electroplated steel

- 1. White rust: Remove.
- 2. Pretreatment: Apply one of the following:
 - 2.1. Mordant solution to blacken whole surface.
 - 2.2. Etching primer recommended by coating system manufacturer.

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521 Uncoated steel – manual cleaning

- 1. Oil and grease: Remove.
- 2. Corrosion, loose scale, welding slag and spatter: Remove.
- 3. Residual rust: Treat with a proprietary removal solution.
- 4. Primer: Apply as soon as possible.

603D Unsound timber

1. Inform CHURCH WARDEN AND VICAR on discovery of rotten or infested timber. Stop work on affected areas pending instruction.

Application

700D Unsuitable conditions

- 1. Prevent or control exposure of operatives to solvent vapour levels exceeding occupational exposure standards set in the current Health and Safety Executive (HSE) document EH40.
- 2. Ensure that coatings are not adversely affected by climatic conditions during and after application.
 - 2.1. Take all necessary precautions including restrictions on working hours, providing temporary protection and allowing extra drying time
- 3. Apply coatings only where specifically permitted by the coating manufacturer:
 - 3.1. To surfaces affected by moisture, frost or airborne dust
 - 3.2. When the air or substrate temperature is below 5°C.
 - 3.3. When the relative humidity is above 80%.
 - 3.4. When heat is likely to cause blistering or wrinkling.

711 Coating generally

- 1. Application standard: In accordance with BS 6150, clause 9.
- 2. Conditions: Maintain suitable temperature, humidity and air quality during application and drying.
- 3. Surfaces: Clean and dry at time of application.
- 4. Thinning and intermixing of coatings: Not permitted unless recommended by manufacturer.
- 5. Overpainting: Do not paint over intumescent strips or silicone mastics.
- 6. Priming coats
 - 6.1. Thickness: To suit surface porosity.
 - 6.2. Application: As soon as possible on same day as preparation is completed.
- 7. Finish
 - 7.1. Even, smooth and of uniform colour.
 - 7.2. Free from brush marks, sags, runs and other defects.
 - 7.3. Cut in neatly.
- 8. Doors, opening windows and other moving parts: Ease before coating and between coats.

712D Coating equipment

1. All coatings shall be applied by good quality brushes of suitable width for the surfaces to be coated unless otherwise specified or agreed in writing.

720 Priming joinery

- 1. Preservative treated timber: Retreat cut surfaces with two flood coats of a suitable preservative before priming.
- 2. End grain: Coat liberally allow to soak in, and recoat.

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730A Workshop coating of concealed timber and metal surfaces

1. General: Apply coatings to all surfaces of components.

731 Site-coating of concealed joinery surfaces

- 1. General: After priming, apply additional coatings to surfaces that will be concealed when fixed in place.
 - 1.1. Components: Areas of the existing truss ends that will be concealed by the gutter bracket fixing clamps
 - 1.2. Additional coatings: One undercoat and two finishing coats as clause 110A

820 Completion

- 1. Remove all masking tape and temporary coverings.
- 2. Remove all splashes and make good any damage resulting from decoration.

 Ω End of Section

N13 Sanitary appliances and fittings

To be read with preliminaries/ general conditions.

2 To be read with preliminaries/ general conditions.

1. For internal elevations of sanitary appliances and fittings please refer to drawing series 3575-3590. to be read in conjunction with general arrangement plans and sections.

Products

301 WCs and cisterns

- 1. Description: To disabled wc's with explosed cisterns
- 2. WC standard: To Defra WC suite performance specification or equivalent approved by relevant water company
- 3. Type: Close coupled cistern
- 4. Pan:
 - 4.1. Standards: To BS EN 33 and BS EN 997, Class 2
 - 4.2. Manufacturer: Twyfords (Doc M Pack)
 - 4.2.1.Product reference: PK8255WH
 - 4.3. Material: Vitreous china, white
- 5. Seat and cover:
 - 5.1. Standard: To BS 1254
 - 5.2. Manufacturer: As Pan
 - 5.3. Material: MDF, veneered
 - 5.4. Finish/ Colour: Mahogany Effect
 - 5.5. Soft close: Not required
- 6. Pan connector:
 - 6.1. Standard: To BS 5627.
 - 6.2. Manufacturer: As Pan
 - 6.2.1. Product reference: Contractor's choice
 - 6.3. Colour: White
- 7. Cistern:
 - 7.1. Standard: To BS EN 14055, Class 2
 - 7.2. Manufacturer: As Pan
 - 7.3. Material: Vitreous china
 - 7.4. Finish/ Colour: To match pan
- 8. Inlet valve: Cistern manufacturer's standard
 - 8.1. Manufacturer: As Cistern
 - 8.1.1.Product reference: As Cistern
 - 8.2. Water supply connection: Bottom
- 9. Flushing arrangement: Cistern manufacturer's standard
 - 9.1. Manufacturer: As Cistern
 - 9.1.1.Product reference: As Cistern
 - 9.2. Operating control: Lever handle, chrome plated included with Cistern

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- 9.3. Flush volume: 6 L
- 10. Flush pipe: Exposed
 - 10.1. Manufacturer: As Cistern
 - 10.1.1. Product reference: Contractor's choice
 - 10.2. Material: Plastics, white
- 11. Accessories: Cistern support brackets; Concealed support frames; and- Overflow standpipe and connector

336 Wash basins

- 1. Description: To Accessible WC
- 2. Standard: To BS EN 14688
 - 2.1. Overflow class: CL15
- 3. Manufacturer: Twyfords (Doc M Pack)
- 4. Material: Vitreous China
- 5. Configuration: Wall Mounted Fixing set E0157(67)
- 6. Tap/ Chainstay/ Overflow holes: One centre tap hole and overflow hole
- 7. Wastes: Strainer Waste
 - 7.1. Standards: To BS EN 274-1, -2 and -3.
 - 7.2. Size: Waste 11/4" brass anti theft swivel plug waste, 80mm slotted tail
 - 7.3. Material: Brass, chrome-plated
 - 7.4. Tail: Slotted
- 8. Traps: Bottle
 - 8.1. Standards: To BS EN 274-1, -2 and -3.
 - 8.2. Manufacturer: As Washbasin
 - 8.3. Size: Trap 11/4" plastic resealing bottle, multi-purpose outlet
 - 8.4. Material: Plastics, self-colour
 - 8.5. Depth of seal (minimum): 75 mm
- 9. Accessories: None

439 Mirrors

- 1. Description: Frameless rectangular acrylic safety mirror to accessible WC
- 2. Manufacturer: Clarke's Safety Mirrors Ltd. Email: enquiries@csmirrors.co.uk
 - 2.1. Product reference: Custom Size: 400 x 1200mm mm
- 3. Material: 3mm Acrylic
- 4. Quality: Free from tarnishing, discolouration, scratches and other defects visible in the designed viewing conditions
- 5. Backing: Silvered
- 6. Coating: Scratch-resistant coating
- 7. Edges: Polished edges all round
- 8. Corner Radius: 4mm
- 9. Fixings: Screw Holes & Chrome Plated Dome-Head Mirror Screws (Ref: ASH04/ASH06)
- Installation: Accurate with sides vertical Portrait/Vertical orientation to Disabled WCs, Baby Change G2n. Landscape/Horizontal orientation to Existing Basement Male WC B8b.

443 Paper towel dispensers

- 1. Description: To accessible WC
- 2. Manufacturer: Dolphin
 - 2.1. Product reference: Dolphin Paper Towel Dispenser DP3103
- 3. Material: Stainless Steel
- 4. Finish/ Colour: Mirror Polished Stainless Steel

459 Foam soap dispensers

- 1. Description: To accessible WC
- 2. Manufacturer: Washroom Essentials
 - 2.1. Product reference: J-PFSD .
- 3. Material: Stainless Steel
- 4. Finish/ Colour: Polished Stainless Steel

462 Toilet roll holder

- 1. Description: To accessible WC
- 2. Manufacturer: Burlington
 - 2.1. Product reference: A5 CHR
- 3. Material/ finish: Chrome Plated Brass
- 4. Finish/ Colour: Chrome

465 Coat hooks

- 1. Description: To accessible WC
- 2. Manufacturer: Burlington
 - 2.1. Product reference: A4 CHR Burlington Double Robe Hook
- 3. Material/ finish: Chrome Plated Brass
- 4. Finish/ Colour: Chrome

493 Changing table

- 1. Description: Baby Change Unit wall mounted
- 2. Manufacturer: Magrini (or equal approved)
 - 2.1. Product reference: MV64

Execution

610 Installation generally

- 1. Assembly and fixing: Surfaces designed to falls to drain as intended.
- 2. Fasteners: Nonferrous or stainless steel.
- 3. Supply and discharge pipework: Fix before appliances.
- 4. Fixing: Fix appliances securely to structure. Do not support on pipework.
- 5. Jointing and bedding compounds: Recommended by manufacturers of appliances, accessories and pipes being jointed or bedded.
- 6. Appliances: Do not use. Do not stand on appliances.
- 7. On completion: Components and accessories working correctly with no leaks.
- 8. Labels and stickers: Remove.

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620 Noggings and bearers

1. Noggings, bearers, etc. to support sanitary appliances and fittings: Position accurately. Fix securely.

630 Tiled backgrounds other than splashbacks

- 1. Timing: Complete before fixing appliances.
- 2. Fixing appliances: Do not overstress tiles.

670 Installing cisterns

- 1. Cistern operating components: Obtain from cistern manufacturer.
- 2. Inlet and flushing valves: Match to pressure of water supply.
- 3. Internal overflows: Into pan, to give visible warning of discharge.
- 4. External overflows: Fix pipes to falls and locate to give visible warning of discharge. Agree location where not shown on drawings.

710 Installing taps

- 1. Fixing: Secure against twisting.
- 2. Seal with appliance: Watertight.
- 3. Positioning: Hot tap to left of cold tap as viewed by user of appliance.

720 Installing wastes and overflows

- 1. Bedding: Waterproof jointing compound.
- 2. Fixing: With resilient washer between appliance and backnut.

755 Sealant bedding and pointing

- 1. Bedding: Bed sinks to top of worktops.
- 2. Pointing: Joints between appliances and walls.

 Ω End of Section

Z20 Fixings and adhesives

To be read with preliminaries/ general conditions.

12 Note

1. It is assumed that the existing structure and substrates are in fair condition, unless otherwise mentioned in the latest quinquennial report. if following strip out it is found that the structure or substrate is not stable, damaged or rotten the church warden and vicar should be informed and further advice sought. under no circumstances should rotten, damaged or unstable structures or substrates be fixed into.

Products

310A Fasteners generally

- 1. Materials: To have:
 - 1.1. Bimetallic corrosion resistance appropriate to items being fixed.
 - 1.2. Atmospheric corrosion resistance appropriate to fixing location.
- 2. Appearance: Submit samples on request.
- 3. Integrity of supported components:
 - **3.1.** Select types, sizes, quantities and spacings of fixings, fasteners and packings to retain supported components without distortion or loss of support. Components, substrates, fixings and fasteners of dissimilar metals:
 - 3.2. Isolate with washers or sleeves to avoid bimetallic corrosion.
- 4. General usage:
 - 4.1. To recommendations of fastener manufacturers and/ or manufacturers of components, products or materials fixed and fixed to.
- 5. Fixings: To be in straight lines, at regular centres.

320A Packings

- 1. Materials: Noncompressible, corrosion proof.
- 2. Area of packings: Sufficient to transfer loads.
- 3. Function: To take up tolerances and prevent distortion of materials and components.
- 4. Limits: Do not use packings beyond thicknesses recommended by fixings and fasteners manufacturer.

340 Masonry fixings

- 1. Light duty: Plugs and screws.
- 2. Heavy duty: Expansion anchors or chemical anchors.

350 Plugs

1. Type: Proprietary types to suit substrate, loads to be supported and conditions expected in use.

360 Anchors

- 1. Types
 - 1.1. Expansion: For use in substrate strong enough to resist forces generated by expansion of anchor.
 - 1.2. Adhesive or chemical

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- 1.2.1.For use in substrate where expansion of anchor would fracture substrate.
- 1.2.2.For use in irregular substrate where expansion anchors cannot transfer load on anchor.
- 1.3. Cavity: For use where the anchor is retained by toggles of the plug locking onto the inside face of the cavity.

370 Wood screws

- 1. Type
 - 1.1. Wood screws (traditional pattern).
 - 1.1.1.Standard:
 - 1.2. Wood screws.
 - 1.2.1.Pattern:
- 2. Wood screws (traditional pattern).
 - 2.1. Standard: To BS 1210.
- 3. Wood screws.
 - 3.1. Pattern: Parallel, fully threaded shank or twin thread types.
- 4. Washers and screw cups: Where required are to be of same material as screw.

380 Miscellaneous screws

- 1. Type: To suit the fixing requirement of the components and substrate.
 - 1.1. Pattern: Self-tapping, metallic drive screws, or power driven screws.
- 2. Washers and screw cups: Where required to be of same material as screw.

390 Adhesives

- 1. Standards
 - 1.1. Hot-setting phenolic and aminoplastic: To BS 1203.
 - 1.2. Thermosetting wood adhesives: To BS EN 12765.
 - 1.3. Thermoplastic adhesives: To BS EN 204.

Execution

610 Fixing generally

- 1. Integrity of supported components: Select types, sizes, quantities and spacings of fixings, fasteners and packings to retain supported components without distortion or loss of support.
- 2. Components, substrates, fixings and fasteners of dissimilar metals: Isolate with washers/ sleeves to avoid bimetallic corrosion.
- 3. Appearance: Fixings to be in straight lines at regular centres.

620 Fixing through finishes

1. Penetration of fasteners and plugs into substrate: To achieve a secure fixing.

630 Fixing packings

- 1. Function: To take up tolerances and prevent distortion of materials and components.
- 2. Limits: Do not use packings beyond thicknesses recommended by fixings and fasteners manufacturer.
- 3. Locations: Not within zones to be filled with sealant.

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640 Fixing cramps

- 1. Cramp positions: Maximum 150 mm from each end of frame sections and at 600 mm maximum centres.
- 2. Fasteners: Fix cramps to frames with screws of same material as cramps.
- 3. Fixings in masonry work: Fully bed in mortar.

660A Screw fixing

- 1. Finished level of countersunk screw heads
 - 1.1. Exposed: Flush with timber surface.
 - 1.2. Concealed (holes filled or stopped): Sink minimum 2 mm below surface and fill flush with surface
 - 1.3. All screws to have clearance holes.
 - 1.4. Screws of 8 gauge or more and all screws into hardwood to have pilot holes about half the diameter of the shank.
 - 1.5. Before using brass, aluminium or other soft metal wood screws pre-cut the thread with a matching steel wood screw.
 - 1.6. Do not hammer screws unless specifically designed to be hammered.
 - 1.7. Washers and screw cups, where specified, to be of the same material as the screw.
 - 1.8. Brass and BMA finished screws are to have slot (not Phillips) heads.

700A Applying adhesives

- 1. Surfaces: Clean. Adjust regularity and texture to suit bonding and gap filling characteristics of adhesive.
- 2. Support and clamping during setting: Provide as necessary. Do not mark surfaces of or distort components being fixed.
- 3. Finished adhesive joints: Fully bonded. Free of surplus adhesive.
- 4. Surfaces to receive adhesive to be sound, unfrozen, free from dust, grease and any other contamination likely to affect bond. Where necessary, clean surfaces using methods and materials recommended by adhesive manufacturer.
- 5. Adjust surface regularity and texture as necessary to suit bonding and gap filling characteristics of adhesive.
- 6. Where necessary, seal friable or dusty surface using methods and material recommended by adhesive manufacturer.
- 7. Ensure that operatives observe manufacturer's and statutory requirements for storage and safe usage of adhesives.
- 8. Do not use adhesives in unsuitable environmental conditions or beyond the storage period recommended by the manufacturer.
- 9. Apply adhesives using recommended spreaders/applicators to ensure correct coverage. Bring surfaces together within recommended time period and apply pressure evenly over full area of contact to ensure full bonding.

 Ω End of Section

Z21 Mortars

Clauses

2 To be read with preliminaries/ general conditions.

Cement gauged mortars

100 Mortars generally

- 1. Mortar that is used in repair work should be of similar strength and porosity to the existing sound mortar and should never be stronger than the adjoining stonework or brickwork.
- 2. Provide sample panels of pointing consolidation and finish for approval. The mortar colour for pointing consolidation works is to match existing in all respects. All new mortars shall match original mortar in colour, texture and detailing

101 Pointing and repointing intentions

- 1. Cutting out and repointing will be required for one of two reasons:
 - 1.1. Existing original mortar is decayed and friable, and no longer satisfies its function. In this case it will only be necessary to rake out and repoint unsound sections of the work, and power tools should never be used. If power tools are necessary to remove existing pointing, it may be assumed to be sound.
 - 1.2. The building, or the specified area, has been repointed at some time in the past with unsuitable or inappropriate mortars, such as hard cement, which is accelerating the rate of decay of of the masonry. It is, nevertheless, important that the work generally be carried out using hand tools in order to avoid further damage to the arrises and widening of the joints

103 Water

1. Water is to be clean, obtained from mains supply, and is to be conveyed and stored in clean containers. Water containers are not to be used for any other purpose

107 Admixtures generally

1. Do not use in mortar unless specified or approved. Do not use calcium chloride or any admixtures containing calcium chloride. Admixtures, if specified, to be to BS EN 934-3: 20

Lime:sand mortars

320A Sand for lime:sand masonry mortars

- 1. Generally:
 - 1.1. Well graded specifically for lime mortars, clean, sharp, free from loam, salts, organic matter and other impurities. Select sand so that the largest particle size is 1/3 joint height, adjust according to thickness of joint.
 - 1.2. Purchase from specialist suppliers for lime mortars. Ordinary 'builders sand' / 'sharp sand' and the like normally sold for cement mortars and renders etc. will not be accepted.
 - 1.3. Sand is to be selected for colour, texture and grading, suitable for its purpose and to blend with existing stone or match existing brickwork pointing.
- 2. Sands unless otherwise specified:
 - 2.1. Nosterfield sharp grit sand with softer Leighton Buzzard sand added for workability.

325A Lime:stone dust

1. To be clean, free from silt and organic matter, of appropriate colour and texture for the intended mortar. Where stone dust constitutes more than 25% of aggregate used in mix particle size is to be well graded as for sand. Store in dry containers.

325E Sand for conservation work

- 1. Clean, sharp, well graded, pit fresh-water sand, free from loam, salts, organic matter, and other impurities, to BS EN 13139: 2002
- 2. Aggregate to match existing in colour, texture, grain size and grading. If necessary source from variety of suppliers, such as Nostrafield, Leighton Buzzard.
- 3. Soft building sand may be added to achieve required colour or to improve workability up to 50% of total volume of sand.

340A Pozzolanic additives for nonhydraulic lime:sand mortars

- 1. Type option 1:
 - 1.1. Burnt / calcined clay pozzolan.
 - 1.2. Manufacturer/ Supplier: [Argical].
 - 1.3. Product reference: [M-1000 Metakaolin (or similar approved].
- 2. Type option 2:
 - 2.1. Brick dust: freshly ground brick dust, particle sizes between 38 and 600 microns well graded. Bricks must be low fired (below 950dC).
 - 2.2. Manufacturer / Supplier: Contractor's choice from specialist lime mortar supplier.
- 3. Mixing: Mix thoroughly into mortar during knocking up, shortly before use.
- 4. Proportions:
 - 4.1. Burnt clay: No more than 5%.
 - 4.2. Brick dust 1 part to 9 parts freshly prepared mortar or more as approved for work at exposed and ground level locations.

360 Making lime:sand mortars generally

- 1. Batching: By volume. Use clean and accurate gauge boxes or buckets.
- 2. Mixing: Mix materials thoroughly to uniform consistency, free from lumps.
- 3. Contamination: Prevent intermixing with other materials, including cement.

370A Site prepared hot lime:sand mortars

- 1. Quicklime: Tarmac Calbux Gran 15, 15-15mm nominal size high purity medium to high reactivity.
- 2. Preparation:
 - 2.1. On a clean heat safe surface or container lay down one third of the required sand and dust mix and dampen down.
 - 2.2. Lay down the required ratio of quicklime on the damp sand and sprinkle with clean potable water (Health and Safety Hazard / Warning). Do not use an excess of water, but use enough water to ensure thorough and proper slaking of the quicklime.
 - 2.3. Dampen down the remainding two thirds of the sand and dust mix and then lay down over the quicklime.
 - 2.4. Keep covered and damp for 12 hours.
- 3. Mixing following slaking: Mix materials thoroughly by beating and chopping and add to the roller pan mixer to ensure the slaked lime is throughly mixed with the aggregate for only as long as is required to thoroughly mix the ingredients. Only add more water to produce a stiff, fatty and workable mix. Prior to use and or at the knocking up stage add the required pozzolan.

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- 3.1. Equipment: Roller pan mixer or submit proposals.
- 4. Maturation period before use (maximum): [48 hours].
- 5. Storage: Non-hyrdaulic mixed lime mortar covered to reduce carbonation. Do not store hydraulic lime mortar.
- 6. Expiration period: Only mix enough hydrualic lime mortar that can be used with in a few hours. Discard mortar after this time and take care to reduce waste. Do not knock-up and use hydraulic lime mortar that has taken an initial set.
- 7. Quantity and bulk of mortar: note the quantity and bulk of mortar produced will increase by 1.5 2x when using hot lime mortars.

390 Knocking up nonhydraulic lime:sand mortars

- 1. Knocking up before and during use: Achieve and maintain a workable consistency by compressing, beating and chopping. Do not add water.
 - 1.1. Equipment: Roller pan mixer or submit proposals.

400A Making bagged nhl hydraulic lime:sand mortars

- 1. Mixing hydrated hydraulic lime:sand: Follow the lime manufacturer's recommendations for each stage of the mix.
 - 1.1. Water quantity: Only sufficient to produce a workable mix.
- 2. Working time: Within limits recommended by the hydraulic lime manufacturer.

500A Mortar samples

- 1. Provide upto 5 biscuit mortars samples for each type of mortar mix required. The approval mortar samples will be subject to dried mortar samples on the basis of a) broken biscuit samples, and b) wall samples showing the completed finish / joint treatment. Notify the Church Warden of the mix components and ratios for all samples.
- 2. Give one week's notice for the availability of mortar samples for inspection and allow a further two weeks in the programme for any tweaking of the samples and obtaining approval from the Church Warden.

510A Weather and protection

- 1. Tend to all freshly laid mortars to ensure slow, proper and complete curing. Follow guidelines for Adverse Weather in Section F21.
- 2. Protection materials: Hessian, dampened down if necessary to help control evaporation of moisture in the mortar. Mist spray mortars if necessary to ensure controlled drying, curing and carbonation.

Mortar mixes

605 Generally

- 1. Proposals or adapting the mortar mixes as specified from masons and conservators experienced in lime mortars are welcomed. Good conservation work often includes team work.
- 2. Do not adapt mortars with out first seeking the approval and Instruction from the Church Warden.

607 Perfromance

1. Mortar mixes are intended to be designed to be either feebly hydraulic for sheltered locations, moderatly hydraulic for exposed locations and eminently hydraulic for chimney flaunchings.

610A Mix for brickwork

1. Bedding: 1:2 Quicklime to Sand (1 Nosterfield: 1 Leighton Buzzard or other sands conforming to this specification, subject to sample approval, submit proposals).

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- 2. Pointing: As per bedding mix in ratio 2:5 (1:2.5).
- 3. Pozzolan: Brick dust in proportion as specified, subject to approval.
- 4. Dust: not required or submit proposals

620A Mix for stonework

- 1. Bedding: 1:2 Quicklime to Sand (1 Nosterfield: 1 Leighton Buzzard or other sands conforming to this specification, subject to sample approval, submit proposals).
- 2. Pointing: As per bedding mix in ratio 2:5 (1:2.5).
- 3. Pozzolan:
 - 3.1. Brick dust in proportion as specified for sheltered locations, subject to approval.
 - 3.2. Calcined clay in proportion as specified for exposed locations such as chimneys.
 - 3.3. Mix of both brick dust and calcined clay subject to approval of agreed ratios.

 Ω End of Section

Z21

Z22 Sealants

Clauses

2 To be read with preliminaries/general conditions.

Products - Not Used

Execution

610 Suitability of joints

- 1. Presealing checks
 - 1.1. Joint dimensions: Within limits specified for the sealant.
 - 1.2. Substrate quality: Surfaces regular, undamaged and stable.
- 2. Joints not fit to receive sealant: Submit proposals for rectification

620 Preparing joints

- 1. Surfaces to which sealant must adhere
 - 1.1. Remove temporary coatings, tapes, loosely adhering material, dust, oil, grease, surface water and contaminants that may affect bond.
 - 1.2. Clean using materials and methods recommended by sealant manufacturer.
- 2. Vulnerable surfaces adjacent to joints: Mask to prevent staining or smearing with primer or sealant.
- 3. Backing strip and/ or bond breaker installation: Insert into joint to correct depth, without stretching or twisting, leaving no gaps.
- 4. Protection: Keep joints clean and protect from damage until sealant is applied.

630 Applying sealants

- 1. Substrate: Dry (unless recommended otherwise) and unaffected by frost, ice or snow.
- 2. Environmental conditions: Do not dry or raise temperature of joints by heating.
- 3. Sealant application: Fill joints completely and neatly, ensuring firm adhesion to substrates.
- 4. Sealant profiles
 - 4.1. Butt and lap joints: Slightly concave.
 - 4.2. Fillet joints: Flat or slightly convex.
- 5. Protection: Protect finished joints from contamination or damage until sealant has cured.

 Ω End of Section



Specification created using NBS Chorus

Barnston Christ Church - Vestry - Correspondence with parish and others

Attachments are listed according to the numbering on the supporting documents list

• Attachments in blue are included within the proposals section

Date	Message
04/11/2022	I am putting together an application for modernising the toilet in the
	Vestry, area which was added in the mid 1950s, so that it will
To: Katy Purvis	accommodate Wheel access. Unfortunately I am experiencing some
From: Robert	difficulty in completing the forms as I appear to lose information I am
Fiddaman	sure it is probably something simple.
	I would appreciate if you could advise when you would be available
	when we could chat through the proposals.
11/11/2022	Have you got a specification for this work? I have two drawings and a
	schedule, but wonder if your architect has produced a spec, as we will
To: Robert	need that to send for review
Fiddaman	
From: Katy Purvis	
11/11/2022	I have just heard back from our architect advising that she will not be
	able to produce the specification until the end of next week, I am going
To: Katy Purvis	to ask if she can produce earlier.
From: Robert	Could you advise of the date of meeting please.
Fiddaman	
12/11/2022	the meeting is Friday 18 th Nov
To: Rober	
Fiddaman	
From: Katy Purvis	
12/11/2022	Many thanks, I will let the architect know in hope we get the
	information in time.
To: Katy Purvis	
From: Robert	
Fiddaman	
16/11/2022	Please find attached Statement of Significance and Statement of Needs
Tay Katy Dura ia	have followed the same format as use in our previous application but
TO: Katy Purvis	have had some difficulty in trying to upload them, is it possible for you
From: Robert	to do this for me.
Flugaman	
17/11/2022	I think we just need the spec now, but we'll see what the DAC say
1771172022	tomorrow. The architect review had no comments other than it looked
To: Robert	fine
Fiddaman	
From: Katy Purvis	
17/11/2022	Thanks for update I have emailed architect again advising meeting is
	tomorrow but have not heard back vet
To: Katy Purvis	

From: Robert	
Fiddaman	
18/11/2022	Further to correspondence this week, please find attached specification to be read alongside the previously submitted schedule of works and drawings relating to the works to the Vestry of Christ Church Paraster
Fiddaman Katy	drawings relating to the works to the vestry at christ church barriston.
Purvis	Please let me know if anything further is required
From: Chloe	
Sherward of	
Donald Insall	6) Specification reference CD.CCB.04- Vestry Works of Donald Insall
Associates	Associates dated 18 November 2022
With attachment	
24/11/2022	DAC Advice
	I am writing to let you that at its meeting of 18 November 2022, the
To: Robert	DAC considered the proposals to reconfigure the vestry, and subject to
Fiddaman, Chloe	formal application and satisfactory review of the specification, resolved
Sherward of	to recommend the scheme, with the following provisos
Donald Insall	
Associates	a) The works to be under the direction and subject to the
From: Katy Purvis	inspection of the Scheme Architect
	We have now received estisfactory feedback on the energification which
	notes that your architect must ensure the details meet building
	regulations so you are now ready to submit the formal application so
	that Caroline can raise the notification of advice
	If you have any queries please do let me know.