



Historic England

Cat B Architectural Schedule of Work

Level 03, Canada House, Manchester

Rev	Issue	Date
T	Tender	13/12/21
T1	Tender	15/12/21



15/12/2021

Construction Group Consultancy
Devonshire House
146 Bishopsgate
London EC2M 4HB

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T. +44 (0)207 377 8430
F. +44 (0)207 377 8431
WWW.CGC.CO.UK
COMPANY REGISTRATION NO. 4378426

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Introduction

Historic England look to refresh their existing Cat B offices situated on Level 03, Canada House, Manchester. The proposed work will provide a new office set-up for the client designed to suit Hybrid working.

This Intermediate Works contract provides for the refurbishment of the existing office fit-out, and includes modification to the cellular layout, new finishes and fixed and loose furniture.

This architectural SoW should be read in conjunction with the following Client Requirement design documents:

CGC Drawings & Documents

10(03)001	Strip Out & Enabling Work Plan – Level 03
20(03)001	General Arrangement Plan – Level 03
25 Series	Joinery Drawings
30(03)001	Finishes Plan – Level 03
40(03)001	Small Power & Data Plan – Level 03
50(03)001	Reflected Ceiling Plan – Level 03
60(00)001	Furniture Plan – Level 03
	Finishes Schedule

The associated MEP works are detailed within the ***Building Services Engineering Team, Employer's requirements for the M&E Services Second Issue***

The MEP works include:

1. Heating and heating controls
2. Electrical distribution equipment
3. Earthing & Bonding
4. Window Actuators

The Main Contractor must also undertake:

5. Small Power & Data alterations (Refer to dwg 40(03)001)
6. Minor lighting & control modifications (Refer to dwg 50(03)001)
7. Modification of existing mechanical extract (Refer to dwg 10(03)001)
 - a. Kitchen Extract Requirement - Contractor Design Portion

The Main contract work will be procured under a JCT Intermediate Building Contract with contractor's design (ICD), the Main Contractor will take design responsibility for all MEP works.

Scope

This scope of works document is to be read in conjunction with drawings as illustrated within the drawing issue sheet attached, it itemises the outline Client Requirement schedule of works to assist the contractor.

The works are Category B remodelling & refurbishment of an existing Category B space in a Grade II Listed Building.

Site restrictions:

- Smoking is not allowed anywhere on site
- Radios are not allowed on site.
- Contractor and Sub Contractors to adhere to the principal contractor site rules.

Protection

Protect access routes into the building and tenant demise including doors and joinery.

No works to be undertaken on any historically relevant building fabric without prior consent.

The contractor must familiarise itself with the listing status of the property and associated internal building fabric; where any uncertainty prevails, the Main Contract must seek advice from the client and the Listed Building Officer.

Building Control

TBC

Contract Administrator / Client Representative

Steve Booker
Construction Group Consultancy
23 Austin Friars
London
EC2N 2QP

m: +44 (0)7957 996 592

e: stephen.booker@cgc.co.uk

w: www.cgc.co.uk

M&E works and permit to works

Any works within Risers including isolations may be subject approval/Permit to Work.

Structural Engineer

N/A if required

Fire Strategy

N/A if required

CDM Regulations 2015

The contractor should allow for complying with the requirements of the CDM

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Regulations 2015 and the Principal Designer.

Principal Designer

PSC Surveying

Stephen Crowther MRICS

Director

t: 07912 392 049

e: stephenc@psc-surveying-ltd.com

w: www.psc-surveying-ltd.com

Outline Specification / Schedule of Works

The development of the business Corporate Identity and overall design (both architecturally and building services) are to be in accordance with the established client and statutory design principles. To include:

- Satisfying DDA, fire and Health & Safety Statutory Requirements.
- Open Plan Office Space for 18 Persons, Library, Copy Area, Kitchen, Team Area, Meeting Rooms, Wellness Room and file storage.
- The main contractor has design responsibility document for the MEP Service design.
- Main contractor to highlight, at design stage, any inconsistency within the Client Requirement documentation by means of an RFI schedule.
- All finishes are subject to Historic England sign off.
- The architectural schedule of work document should be co-ordinated with the Contractor MEP design documentation.

Enabling Works

Item	Cost (£)
• Take Up existing floor finish throughout	
• Remove existing Cat B Partitions and remove from site as marked on Strip-out drawing 10(03)001	
• Decommission existing data cabling from current IT Rack, ready for relocation of data face plates.	
• Make safe existing electrics ready for relocation of tenant distribution board and removal of existing small power cabling.	
• Remove existing lighting as marked on Strip-out drawing 10(03)001, make good plasterboard ceiling ready for new light fittings.	
• Remove existing tea-point, set aside Dishwasher for re-use.	

Schedule of Work

- Make Good & Prepare windows ready for decoration. Windows above radiator boxing out (South Elevation) to be eased where painted shut, and fixed where sash window mechanism not operational. Windows form part of listed building envelope.
- Main Contractor to provide attendance on relocation of existing Roller Racking by client direct contractor.

Wall Types

Item	Cost (£)
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NOTE: Contractors must provide Rates & Measures for all costs as marked. Tenders that do not provide required information will be deemed non-compliant and not be considered.

- **P1** – Supply and install new metal stud and Plasterboard partitions, from floor to ceiling comprising 48mm stud with 2 layers 12.5mm Wallboard to each side, 25mm Isover APR 1200 in the cavity, taped and jointed finish ready for decoration.
100mm MDF applied skirting.
Provides 49dB (LAB)

Rate	Measure	Cost (£)

Door Types

Item	Cost (£)		
See drawing 20(03)001 for location of all doors.			
	Unit	Unit Cost	Cost (£)
• PD01, – Paint Grade30 min FR solid Core Door, Hazlin Doors – HAZ Type X	3		
• ED01 -06 – Existing Cat B Doors – make good and redecorate, colour ref J5.	6		
• ED07 & ED08 – Existing Base Build Door – revive & refresh. Doors form part of listed Building fabric, contractor proposal to be approved with LBO prior to any works being undertaken.	2		
• Attendance on Access control to ED01			

Flooring Work

Item	Cost (£)		
PC Sum –Make good sub floor, ready for new tile carpet finish & vinyl flooring, subject to survey following lifting existing floor finish, to achieve flush level with carpet as required.	Rate	Measure	Cost (£)

Wall Finishes

Item	Notes																		
• Wall Finish (W1), Dulux Trade Vinyl Matt Emulsion, mist and two top-coats in finish W1 <i>NOTE: all walls & ceiling to be fully decorated at Practical Completion.</i> • Wall & Ceiling Finish (W2), Dulux Trade Vinyl Matt Emulsion, mist and two top-coats in finish W2 <i>NOTE: all walls & ceiling to be fully decorated at Practical Completion.</i> • Windows to be redecorated in Dulux Trade Eggshell, Finish W1 • Metalwork & Ceiling beam Finish (W3), Dulux Trade Matt Emulsion (on Plasterboard) Eggshell (on Metalwork), prepare existing finish ready for two top-coats finish W3. • Wall Finish (W4), Dulux Trade Vinyl Matt Emulsion, mist and two top-coats in finish W4	<table><tr><th>Rate</th><th>Measure</th><th>Cost (£)</th></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table>	Rate	Measure	Cost (£)															
Rate	Measure	Cost (£)																	

Floor Finishes

Item		Notes		
- Install new carpet tiles Finish F1 Carpet tiles to be laid to manufacturers recommendations. Apply appropriate tackifier system recommended by the manufacturer to all areas prior to installation of carpet. Allow for level thresholds at changes in floor finish. <i>Refer to 30 Series drawing for setting out details.</i> - Install new carpet tiles Finish F2 Carpet tiles to be laid to manufacturers	Rate	Measure	Cost (£)	
	Rate	Measure	Cost (£)	

Schedule of Work

recommendations. Apply appropriate tackifier system recommended by the manufacturer to all areas prior to installation of carpet. Allow for level thresholds at changes in floor finish. <i>Refer to 30 Series drawing for setting out details.</i>			
- Install LVT Flooring (F3) to concrete sub floor in accordance with manufacturer recommended installation. Allow for level thresholds at changes in floor finish. <i>Refer to 30 Series drawing for setting out details.</i> - Allow for new stainless steel angled threshold strip at junctions with carpet and vinyl floor and carpet and floor tile. Schluter or similar.	Rate	Measure	Cost (£)
	Rate	Measure	Cost (£)

Joinery

Item	Notes
- Library Shelving Joinery – Refer to dwg 25(00)001 and Finishes Schedule for detail. - Kitchen Joinery – Howdens + Bespoke Wall Unit. Refer to dwg 25(00)002 and Finishes Schedule for detail. NOTE: <i>Re-use existing Dishwasher, Main Contractor for allow for new Fridge and Microwaves.</i> - Business Hub Point joinery – Spacestor (or Similar) Refer to dwg 25(00)003 for detail.	

Builders work

Item	Notes
- Contractor to price BWIC with Services Installation as required by MEP Services design - BWIC with client direct ADS Actuator Installation	

Ceilings

Item	Notes
Refer to 50 series drawing for locations.	
- Provide attendance and access on all ceiling works. - Make good, tape and fill an aperture left by existing light fitting, prepare ready for decoration.	

Services

Item	Notes
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NOTE: Tendering Contractors to refer to the Historic England Building Services Engineering Team Employer's Requirement for the M&E Services document for full list of service requirement. Services are a Contractors Design Portion for the works.

Schedule of Work

- Low Level Data
Refer to 40 Series Drawings for detail

Unit Rate	Quantity	Cost (£)

- High Level Data
Refer to 40 Series Tender Drawings for detail

Unit Rate	Quantity	Cost (£)

- Mechanical Services
NOTE: Contractor to provide full breakdown of mechanical services cost at Tender under separate schedule.
- Electrical Services
NOTE: Contractor to provide full breakdown of electrical services cost at Tender under separate schedule.
- Plumbing Services
- **NOTE:** Contractor to provide full breakdown of electrical services cost at Tender under separate schedule.
- Fire Alarm Services
NOTE: Incumbent Fire Alarm Contractor:
Refer to Landlord Fit-out Guide for Incumbent Contractor details.
- Sprinkler Services
NOTE: Incumbent Sprinkler Contractor:
Refer to Landlord Fit-out Guide for Incumbent Contractor details.
Refer to Martin Thomas Associates record drawings for existing layout; contractor to propose co-ordination work for revised layout.

IT

Item	Cost (£)
• Contractor to review existing Data layout and provide contractor design proposal for new proposed layouts. • Contractor to make allowance for relocation of IT Rack and associated small power requirement. ○ Contractor to allow for new Acoustic IT Rack, specification: 42U UCoustic Edge Active 9210i ○ Contractor to allow for 16A Commando & 1# DSSO adjacent to new Rack location • Main Contractor to re-use and supplement containment for power & data cabling. • BWIC to IT Installation	

Security

Item	Cost (£)
Access Control & Security to be installed on ED-01 Main Contractor to provide attendance on cabling contractors works.	
BWIC to Security Installation	
Contractor to allow for containment and power supplies for security installation.	

Notes:

- Security Design by HE Incumbent Security provider ADT (TBC)
- Client Direct Order

Miscellaneous

Item	Notes
Main Contractors Preliminaries. NOTE: Contractor to provide full breakdown cost at Tender under separate schedule. Refer to PSC prelims document for Pricing purposes.	
New statutory signage to be provided (Contractor Design Portion), locations to be agreed with Approved Building Control Officer and meet Fire Authority requirements.	
O&M Manuals	
Furniture Attendance – Main Contractor to incorporate Client Direct Furniture installation in their programme of work and provide attendance on works.	
Additional items – Main contractor to price any additional items, not listed above in Schedule of Works, that are deemed necessary.	

Materials & Workmanship generally

All materials and workmanship within the works will be designed and constructed in accordance with the following (as applicable) and other relevant standards applicable at the commencement of the Works and generally to be in accordance with good building practice.

The British Standards and Codes of Practice
CDM Regulations and other relevant legislation.
Health and Safety at Work Act. and Relevant Regulations made there under
Workplace (Health and Safety and Welfare) Regulations
Health and Safety Executive Guidance Notes.
Environmental Health, Fire, Petroleum and Highways Local Bye-Law.
The Building Regulations and Relevant Statutory Regulations
The requirements of the Local Fire Brigade, Fire Precautions Act
The Offices Shops and Railway Premises Act
The Factories Act 1961
Town and Country Planning Act and Associated Acts
Local Authority Bye – Laws
Local Water Board Requirements and DOE Water Supply (water fittings) Regulations 1999
The specific requirements of the Utility Supply Local Authorities and Local Planning Authorities
CIBSE Codes and technical memorandum, including lighting codes.
Disability Discrimination and Equalities Act
European Product Directives
The installation, testing and commissioning of the Mechanical, Electrical, Public Health systems will be undertaken in accordance with the following document standards.
British Standards
The latest Edition of the IEE Wiring Regulations and BS 7671 - IEE Wiring Regulations
BSRIA Application Guidance Notes
IEE Wiring Regulations
HVCA Guidance Notes
Water Supply Regulations
The Gas Safety Regulation
The Electricity Supply Act
The Clean Air Acts

Good Practice

Where and to the extent that materials, products and workmanship are not fully detailed or specified they are to be: Of a standard appropriate to the Works and suitable for the functions stated in or reasonably to be inferred from the project documents, and in accordance with relevant good building practice.

General Quality of Products:

All products are to be new unless otherwise specified. For products specified to a British or European Standard obtain certificates of compliance from manufacturers

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Construction Group Consultancy
Devonshire House
146 Bishopsgate
London EC2M 4HB

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T. +44 (0)207 377 8430
F. +44 (0)207 377 8431
WWW.CGC.CO.UK
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when requested by client. Where a choice of manufacturer or source of supply is allowed for any particular product, the whole quantity required to complete the work must be of the same type, manufacture and/or source unless otherwise approved. Produce written evidence of sources of supply when requested by client. Ensure that the whole quantity of each product required to complete the work is of consistent kind, size, quality and overall appearance.

Where consistency of appearance is desirable ensure consistency of supply from the same source. Unless otherwise approved do not use different colour batches where they can be seen together.

If products are prone to deterioration or have a limited shelf life, order in suitable quantities to a programme and use in appropriate sequence. Do not use if there are any signs of deterioration, setting or other unsatisfactory condition.

Proprietary Products:

Handle, store, prepare and use or fix each product in accordance with its manufacturer's current printed or written recommendations/instructions. Inform client if this conflicts with any other specified requirement. Submit copies to client when requested. Ancillary products and accessories to be of a type recommended by the main product manufacturer, unless otherwise specified. The tender will be deemed to be based on the products specified and recommendations on their use as described in the manufacturers' literature current at [the commencement of the contract. Obtain confirmation from manufacturers that the products specified and recommendations on their use have not been changed since that time. Where such change has occurred, inform client and do not place orders for or use the affected products without further instructions. Where British Board of Agreement certified products are used, comply with the limitations, recommendations and requirements of the relevant valid certificates.

Checking Compliance of Products

Check all delivery tickets, labels, identification marks and, where appropriate, the products themselves to ensure that all products comply with the project documents. Where different types of any product are specified, check to ensure that the correct type is being used in each location. In particular, check that:

- The sources, types, qualities, finishes and colours are correct, and match any approved samples. All accessories and fixings which should be supplied with the goods have been supplied. Sizes and dimensions are correct. Where tolerances of components are critical, the Contractor shall measure a sufficient quantity to ensure compliance.
- The delivered quantities are correct, to ensure that shortages do not cause delays in the work. The products are clean, undamaged and otherwise in good condition. Any products which have a limited shelf life are not out of date.

Protection of Products:

- Prevent over-stressing, distortion and any other type of physical damage.
- Keep clean and free from contamination. Prevent staining, chipping, scratching or other disfigurement, particularly of products exposed to view in

the finished work.

- Keep dry and in a suitably low humidity atmosphere to prevent premature setting, moisture movement and similar defects. Where appropriate store off the ground and allow free air movement around and between stored products.
- Prevent excessively high or low temperatures and rapid changes of temperature in the products.
- Protect adequately from rain, damp, frost, sun and other elements as appropriate. Ensure that products are at a suitable temperature and moisture content at time of use.
- Keep different types and grades of products separately and adequately identified.
- So far as possible keep products in their original wrappings, packing or containers, until immediately before they are used.
- Wherever possible retain protective wrappings after fixing and until shortly before Practical Completion.

Suitability of Related Work and Conditions:

- Ensure that all trades are provided with necessary details of related types of work. Before starting each new type or section of work, ensure that:
- Previous, related work is appropriately complete, in accordance with the project documents, to a suitable standard and in a suitable condition to receive the new work.
- All necessary preparatory work has been carried out, including provision for services, openings, supports, fixings, damp proofing, priming and sealing.
- The environmental conditions are suitable, particularly that the building is suitably weather tight when internal components, services and finishes are installed.

General Quality of Workmanship:

- Operatives must be appropriately skilled and experienced for the type and quality of work. Take all necessary precautions to prevent damage to the work from frost, rain and other hazards.
- Inspect components and products carefully before fixing or using and reject any which are defective.
- Fix or lay securely, accurately and in alignment. Where not specified otherwise, select fixing and jointing methods and types, sizes and spacing of fastenings to comply with relevant British Standards.
- Provide suitable, tight packing at screwed and bolted fixing points to take up tolerances and prevent distortion. Do not over tighten fixings.
- Adjust location and fixing of components and products so that joints which are to be finished with mortar or sealant or otherwise left open to view are even and regular.
- Ensure that all moving parts operate properly and freely. Do not cut, grind or plane pre-finished components and products to remedy binding or poor fit without approval.

Samples of Finished Work:

Where a sample of finished work is specified for approval, the requirement for

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approval relates to the sample itself. (If approval of the finished work as a whole is required this is specified separately).

Obtain approval of the stated characteristic(s) of the sample before proceeding with the Works. Retain approved sample in good, clean condition on site.

Ensure that the relevant characteristic(s) of the Works match the approved characteristic(s) of the sample.

Remove samples which are not part of the finished Works when no longer required.

Where approval of a product is specified the requirement for approval relates to a sample of the product and not to the product as used in the Works.

Submit a sample or other evidence of suitability.

Do not confirm orders or use the product until approval of the sample has been obtained. Retain approved sample in good, clean condition on site.

Ensure that the product used in the Works matches the approved sample.

Setting Out:

Check the levels and dimensions of the site against those shown on the drawings, and record the results on a copy of the drawings. Notify client in writing of any discrepancies and obtain instructions before proceeding.

Appearance and Fit:

Arrange the setting out, erection, juxtaposition of components and application of finishes (working within the practical limits of the design and the specification) to ensure that there is satisfactory fit at junctions, that there are no practically or visually unacceptable changes in plane, line or level and that the finished work has a true and regular appearance.

Wherever satisfactory accuracy, fit and/or appearance of the work are likely to be critical or difficult to achieve, obtain approval of proposals or of the appearance of the relevant aspects of the partially finished work as early as possible. Without prejudice to the above and unless specified otherwise, tolerances will (where applicable) be not greater than those given in BS 5606, Tables 1 and 2.

Proposals for Rectification of Defective Work/Products:

As soon as possible after any part(s) of the work or any products are known to be not in accordance with the Contract, or appear that they may not be in accordance, submit proposals to client for opening up, inspection, testing, making good, adjustment of the Contract Sum, or removal and re-execution.

Such proposals may be unacceptable to the client, and contrary instructions may be issued.

Measures to Establish Acceptability:

Wherever inspection or testing shows that the work, materials or goods are not in accordance with the contract and measures (e.g. testing, opening up, experimental making good) are taken to help in establishing whether or not the work is acceptable, such measures:

- will be at the expense of the Contractor, and
- will not be considered as grounds for extension of time.

Quality Control:

Establish and maintain procedures to ensure that the Works, including the work of all

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subcontractors, comply with specified requirements. Maintain full records, keep copies on site for inspection by the client, and submit copies of particular parts of the records on request.

The records must include:

- Identification of the element, item, batch or lot including location in the Works.
- The nature and dates of inspections by the Contractor or client, tests and approvals.
- The nature and extent of any nonconforming work found.
- Details of any corrective action.

Work At or After Completion

Generally: Make good all damage consequent upon the work. Remove all temporary markings, coverings and protective wrappings unless otherwise instructed.

Clean the works thoroughly inside and out, including all accessible ducts and voids, remove all splashes, deposits, efflorescence, rubbish and surplus materials consequent upon the execution of the work.

Cleaning materials and methods are to be as recommended by manufacturers of products being cleaned, and to be such that there is no damage or disfigurement to other materials or construction.

Obtain COSHH dated data sheets for all materials used for cleaning and ensure they are used only as recommended by their manufacturers.

Touch up minor faults in newly painted/repainted work, carefully matching colour, and brushing out edges. Repaint badly marked areas back to suitable breaks or junctions.

Adjust, ease and lubricate moving parts of new work as necessary to ensure easy and efficient operation, including doors, windows, drawers, ironmongery, appliances, valves and controls.

Security at Completion:

Leave the Works secure with all accesses locked. Account for and adequately label all keys and hand over to Employer with itemised schedule, retaining duplicate schedule signed by Employer as a receipt.

Making Good Defects:

Make arrangements with the client and give reasonable notice of the precise dates for access to the various parts of the Works for purposes of making good defects. Inform client when remedial works to the various parts of the Works are completed.

Access and Deliveries to site:

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Construction Group Consultancy
Devonshire House
146 Bishopsgate
London EC2M 4HB

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T. +44 (0)207 377 8430
F. +44 (0)207 377 8431
WWW.CGC.CO.UK
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Arrangements for deliveries to site for plant and materials shall be agreed with the client/landlord.

Protection:

The Contractor will be responsible for the protection to the fire escapes staircases lobbies and existing parts of the building used or affected by the works and access routes determined by the employer.

Safety:

The Contractor must take full responsibility in providing a safe working environment at all times. There will be no excessive accumulation of debris on site, and all rubbish must be removed from site on a daily basis.

A fire station is to be provided and maintained through the contract period. A responsible member of the Contractors staff is to be appointed as a fire warden.

Attendances and Builders Work in Connection

The Contractor shall allow for attendances and Builders Work in Connection on all client direct contracts.

Potential client direct contracts are as follows:

- Security / Access Control
- Signage
- Furniture
- AV
- Vending Equipment

Prohibited Materials

The following materials shall not be specified for use, unless authorised by the client in writing.

1. High alumina cement in structural elements.
2. Wood wool slabs as permanent formwork or in structural elements.
3. Concrete or mortar additives containing calcium chloride.
4. Aggregates for use in reinforced concrete which do not comply with British Standard Specification 822.1992 and aggregates for use in concrete which do not comply with the provisions of British Standard 8110.1985.
5. Calcium silicate bricks or tiles.
6. Any products or materials containing urea formaldehyde foam or materials which may Release formaldehyde in quantities which may be hazardous with reference to the limits set from time to time by the Health and Safety Executive.
7. Asbestos or asbestos containing products whatsoever.

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8. Lead or any materials containing lead which may be ingested inhaled or absorbed except where copper alloy fittings containing lead are specifically required in drinking water pipework by any relevant statutory requirements.
9. Slipbricks.
10. Lightweight or air entrained concrete bricks and blocks.
11. Vermiculite plaster.
12. Polyisocyanurate foam.
13. Extruded polystyrene other than low ozone depletion materials.
14. Materials which are generally composed of mineral fibres either man made or naturally occurring which have a diameter of 3 microns or less and a length of 200 microns or less or which contain any fibres not sealed or otherwise stabilised to ensure that fibre migration is prevented.
15. Bitumen coated polythene save that the use of bitumen-coated polythene may be permitted for tanking and DPM but express permission must be sought from the beneficiary.
16. Concrete that may be susceptible to alkali/silicon reaction (ASR).
17. Proprietary open web lattice joists or beams (nailable type).
18. Timber trussed rafters manufactured with truss plate connections. Bolted trusses are permitted.
19. All tropical rain forest hardwoods.
20. Any product, which contains or uses Montreal listed CFC gases in its manufacture.
21. PTFE fabrics – the only permitted use of PTFE is as a jointing tape in plumbing applications and on specialist applications such as valve seats.
22. Pre-cast concrete floors at ground floor level or ribbed floors.
23. Resin coated blocks.
24. Spectra glass or similar pre-finished blocks.
25. Wall and ceiling lining products and composite cladding panels that are either not non-combustible or do not meet the Loss Prevention Certification Board's Standard LPS 1181 or which do not meet the Factory Mutual Standard FM 4880.
26. Other substances or materials not in accordance with British Standard or Codes of Practice where such exist.

General reference documents

Where and to the extent that materials, products and workmanship are not fully specified they are to be:

Suitable for the purposes of the Works stated in or reasonably to be inferred from the Contract and/or the Tender Documents, and in accordance with good building practice, including the relevant provisions of current BSI Documents or their equivalent and to conform with the current version of all relevant standards including, inter alia:

- British Standards
- BS 476 Fire Tests on building materials and structure (Parts 4, 7 and 8 etc)
- Health and Safety at Work Act

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Construction Group Consultancy
Devonshire House
146 Bishopsgate
London EC2M 4HB

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T. +44 (0)207 377 8430
F. +44 (0)207 377 8431
WWW.CGC.CO.UK

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- Building Acts
- Building Regulations 2010 (other requirements by Statutory Authorities pertaining to locality and building classification)
- Current IEE Regulations
- All relevant Codes of Practice
- The requirements of the Principal Building Control Officer and District Surveyor

Building services reference documents.

CIBSE Commissioning Code Series A, 1996 - Air Distribution Systems.

CIBSE Commissioning Code Series C, 2001 - Automatic Controls.

CIBSE Commissioning Code Series R, 2002 - Refrigeration Systems.

CIBSE Commissioning Code Series W, 2003 - Water Distribution Systems.

BSRIA Application Guide, 3/89.3 - Commissioning of air systems.

Application procedure for buildings.

BSRIA Application Guide 1/2001 - Precommission cleaning of pipework systems

ASHRAE Handbook HVAC Applications, 1995: Testing, Adjusting, and Balancing.

BSEN 1057:1996 Seamless round copper tubes for water and gas in sanitary and heating applications

BS 1387:1985(1990) Steel tube for screwing to BS21 Pipe Threads.

BS 143 & 1256:2000 Malleable cast iron and cast copper alloy threaded pipe fittings.

BS 3974.Pt1:1974 Pipe hangers, slider and roller type supports.

BS 1560:Pt3:1989 Flanges - Steel, cast iron and copper.

BS 4504:Pt3:1989 Flanges for pipes, valves and fittings.

BS 5154:1991 Specification for copper alloy globe, globe stop and check, check and gate valves.

BS 5155:1984(1991) Specification for butterfly valves.

BS EN 13397:2002 Specification for diaphragm valves.

BS 6283:(1991) Safety and control devices for use in hot water systems.

BS 6759:Pt 1:1984 Specification for safety valves for steam and hot water.

SMACNA - 1995 HVAC Duct Construction Standards – Metal and flexible.

SMACNA - 1990 HVAC systems – Duct design.

ISO 5135:1997 Acoustics - Determination of sound power levels of noise from air terminal devices, air terminal units, dampers and valves by measurement in a reverberation room.

BS 848:Pt1:1997 Fans for general purposes. Performance testing using standardised airways.

BS 848:Pt2:2000 Fans for general purposes. Methods of noise testing.

BS 6861:Pt1:1987 Mechanical vibration.