**FIRE SAFETY WORKS (PHASE 2) CONTRACT**

**(1044)**

**PART E – SPECIFICATION**

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## GENERAL

1.1 All of the workmanship is to be carried out to the current version of BS8000 relative to workmanship and also to NHBC Guidance. It will also have to be completed to the satisfaction of the Contract Administrator..

1.2 The design of fire doors must be fully compliant BS8214:2008 Fire Door Assemblies and doors must have been tested to BS 476 Part 22 1987, or a BS/EN 1634-1 2000 test as a complete doorset and certification held in the name of the Manufacturer. Assessment will not be accepted.

The location of fire doors must be set in accordance with Approved Document B of the Building Regulations current at the date of tender or to BS9999:2008.

1.3 Where a fire door or smoke control door is removed, the new replacement door shall be fixed on the same working day. If this is not possible, temporary arrangements are to be made to provide the same level of protection.

1.4 Care must be taken to ensure door bells, letter box, aerial cables and the like are not damaged during the removal of existing doors and frames.

1.5 The Contractor shall provide minimum 3 keys per locking devices to residents or warden on completion of the installation.

1.6 After installation the Contractor shall verbally instruct the resident as to the safe and proper operation of the doors and hand a copy of their operation leaflet to the resident.

1.7 Asbestos removal must be undertaken via London Borough of Ealing Asbestos Framework which acts in accordance and meets the terms with accredited ISO17020 and ISO 17025:\_

* Lot 1 - Asbestos Surveying, Management and Refurbishment Surveys, Re-Inspection Surveys, Sample Analysis and any bespoke requirements
* Lot 2 - Asbestos Removal, Remediation Works
* Lot 3 – Compliance Air Monitoring, Reassurance Monitoring & Enclosure Clearances Contractor

## MATERIALS & WORKMANSHIP

**Good Practice**

2.1 Where not specifically itemised, making good and removal from site of all debris shall be deemed to be included.

2.2 Allow to provide the Contract Administrator with condition photographs of the existing works area prior to commencing with the works. Upon completion make good all damage caused at the expense of the Contractor to Contract Administrator’s satisfaction.

## Quality and Handling of Products

2.3 All products and materials are to be new unless otherwise specified or agreed with the client.

2.4 All works and materials are to comply with current Building Regulations, Codes of Practice, British Standards (BS) or European Standards (BS EN), UKAS or FIRAS at the time

2.5 Where a choice of manufacturer or source is allowed for any particular product, the whole quantity required must be of the same type, manufacture and/or source unless otherwise approved by the Contractor Administrator prior to contract commencement.

2.6 All materials and products, whether specified or chosen by the Contractor or client, are to be fixed, fitted, laid, or applied, in strict accordance with the manufacturer’s recommendations.

2.7 It is the Contractor’s responsibility to ensure that the manufacturer’s technical literature relating to the particular product or item is obtained and strictly adhered to. The Contractor must supply the contract administrator a copy of the manufacturer’s technical documentation before installation, unless otherwise agreed.

2.8 Ensure that the whole quantity of each product required is of consistent kind, size, quality, and overall appearance. Products or materials that show signs of deterioration, setting, or other unsatisfactory condition are not to be used.

2.9 Where consistency of appearance is desirable, ensure consistency of supply from the same source. Do not use different colour batches where they can be seen together.

2.10 All products are to be handled, stored, prepared, and used or fixed in accordance with the manufacturer's current recommendations. The Contract Administrator is to be informed if these conflict with any other specified requirement.

2.11 Ancillary products and accessories which are to be used with a main product are to be of a type recommended by the main product manufacturer unless otherwise specified.

##  Samples

2.12 Where samples are either called for in the specification, or required for agreement, a sample of the product should be provided in good time for client approval and to allow a reasonable amount of time for the client to be able to organise time to view the sample and to consider its suitability.

2.13 Orders should not be confirmed or placed by the Contractor until client approval has been obtained. Products used in the works are to match the approved sample.

##  General quality of workmanship

2.14 The Contractor will be expected to deliver a high standard of workmanship and quality of finish.

2.15 Operatives carrying out the works must be fully accredited installers for the relevant PFP, appropriately skilled and experienced for the type of work being carried out and quality expected.

2.16 Works completed in stages, and particularly finishes, should be protected as required to prevent damage or soiling whilst remaining works are being completed.

2.17 The Contractor will be responsible for obtaining all product information, installation instructions, recommended design details, and/or technical data sheets directly from the supplier or manufacturer as required ensuring all work is undertaken in strict accordance with expected standards.

##  Protection from Damage

2.18 The Contractor will be responsible for ensuring that partially completed works are left secure and watertight at the end of each day and should employ whatever measures deemed appropriate to ensure this.

2.19 Works comprising work to the interior of the building are to be undertaken so as to avoid damage to internal finishes, fixtures and fittings, furniture, and any other items to remain in place during the works. The Contractor will be responsible for providing the necessary level of protection to ensure the above.

2.20 Where not specifically referred to, allow for all necessary protection and support to all existing structure, partly demolished structures, including making good and damage caused.

##  Specified Works

2.21 The Contractor shall measure all the works that are specified in the schedule of works.

2.22 Contractor to ascertain the nature of the site, access thereto and all local conditions and restrictions likely to affect the execution of the Works.

2.23 Ensure that all associated costs with parking, congestion charge etc. are made throughout the duration of the project.

2.24 Ensure works area is protected and works are sequenced to allow for security at all times. The Contractor will be responsible for the protection of building and materials during the works. Upon completion make good all protected areas floors/walls etc. to contract administrator's satisfaction.

2.25 Allow for stickers to be installed following the use of intumescent products within riser or electrical cupboards. Type to be agreed with Contract Administrator.

2.26 Allow to install small identification labels in approved position by the Contract Administrator of any newly installed doors to identify fire rating and standard of testing, type to be agreed with Contract Administrator.

##  Site Cleanliness

2.27 Allow to remove all unclaimed personal effects from communal areas, riser cupboards and storage cupboard, following issue of Ealing Council letter to residents and dispose of at Contract Administrator's instruction.

2.28 The site (including all pavements, roadways, terraces, balconies, and communal garden areas etc. and all adjoining properties) shall be left clean and tidy at the end of each working day. In addition, the site shall be kept clean and tidy in a condition satisfactory to the Contract Administrator for the duration of the works. The Contractor shall pay particular attention in ensuring that all rainwater goods, drains etc. are kept free flowing at all times and free from debris.

2.29 The site is to be left clean and tidy on completion of the works and at the end of each working day. This includes the removal of any unfixed materials or rubbish arising from the works.

##  Registration, Qualification, regulations and standards

2.30 All products that have to provide a specific fire performance are certificated by a UKAS accredited body and should be tested in their entirety by the Manufacturer. Evidence of how the products meet the required performance is to be supplied to the Contract Administrator before installation.

 The Contractor (inclusive of their sub contractor’s) must hold the UKAS accreditation for all installation of passive fire systems and associated works.

2.31 In addition to complying with statutory requirements the Contractor will use products, methods of work and protective measures which will minimise health and safety hazards.

2.32 Inform the Contract Administrator in advance of all safety provisions and procedures (including those relating to materials which may be deleterious) which will require the compliance of the Employer or his representatives when visiting the site. Provide protective clothing and/or equipment for the Employer and his representatives as appropriate.

2.33 Provide the Contract Administrator with copies of all Method Statements submitted to the Health and Safety Executive.

2.34 The Contractor is to provide third party training which is accredited both by UKAS and FIRAS for all team members at no further cost to Ealing Council.

2.35 **Third Party Registration**

The *Contractor* shall, for the life of this Contract, be a member of the FIRAS Certification Scheme or another Third Party Registration Scheme recognised by the United Kingdom Accreditation Service (UKAS) and enrolled on the register maintained by UKAS. The certificate shall be produced and provided to the Contract Administrator.

**Installer Registration**

The *Contractor* shall, for the life of this Contract, only employ installers who have been specifically trained to a standard and be accredited installers and certificated by FIRAS Certification Scheme recognised by the United Kingdom Accreditation Service (UKAS) and enrolled on the register maintained by UKAS. The certificates shall be produced and provided to the Contract Administrator*.* The Contractor is to provide third party training which is accredited both by UKAS and FIRAS for all team members at no further cost to Ealing Council

##  Completion Cleaning

2.36 External cleaning is to comprise the complete removal of all dust and grime caused by the works from all external surfaces of the building including all surrounding surfaces at ground level.

2.37 Internal cleaning is to comprise a comprehensive cleaning of all internal surfaces and finishes including fixtures and fittings and furniture, to ensure all dust, marks and streaks caused by the works are fully removed.

2.38 All cleaning work is to be undertaken to provide a professional level of finished clean. Professional cleaners are expected to be employed on all projects except where the element of works is of a very minor nature for which the required clean-up operation would not reasonably warrant employing professional cleaners. The exception to this would be in an instance where the Contract Administrator is unhappy with the finished level of cleaning provided in which case the Contractor would need to employ professional cleaners.

##  Tendering and Pricing

2.39 No additional costs will be entertained as a result of any omissions due to brevity of descriptions

2.40 The quantities shown in Part F - Schedule of Rates are for guidance only. The Council estimates that these quantities represent one year for each Contractor and will be replicated each year throughout the contract term; however this cannot be guaranteed. In total it is expected that approximately 6,000 dwellings will be included in these programmes to benefit from replacement Flat Entrance Doors (this will also include dwellings subject to original installation not meeting current standards).

In addition there will be works to replace / upgrade riser doors, communal fire doors, fire retardant decorations, directional signage and fire stopping measures within existing risers. These quantities should not be relied upon for ordering materials, etc.

Should the tenderer do so this it shall be at his/her own risk and no resultant additional costs will be considered.

2.41 Where information has been clearly provided for the purpose of obtaining a price for this tender the tenderer should confirm with the Contract Administrator that the information is correct before proceeding with that particular item of work.

2.42 If the Contractor makes any amendments to the descriptions within the Work Schedules, these are to be readily identified. Failure to identify any such amendments will result in the original schedule of work descriptions being deemed to be applicable.

2.43 Contractor’s tender is to be net of all Main Contractor’s discount.

##  General Health & Safety Requirements

2.44 The Contractor will provide all necessary personnel, materials, equipment and facilities to comply with all applicable current health and safety legislation relating to the works including:

2.45 Providing appropriate skilled, knowledgeable, experienced and trained personnel to undertake, and manage, the work, deal with identified risks and formulate technical and managerial approaches suitable to the work.

2.46 Allowing adequate time to complete the work without risk to Health & Safety.

2.47 Identifying any site specific Health & Safety risks prior to works commencing and on an on-going basis, and ensuring that all site personnel whether employed directly by, or under the direct control of the Contractor, are aware of such risks.

2.48 Having procedures in place to control visitor access to the site. Ensuring that the site area is kept free from hazards, or such hazards are identified, clearly visible, and isolated from visitors to the site.

2.49 Ensuring that all communal entrance areas and corridors are kept free from materials, rubbish, plant and equipment.

2.50 Ensuring that the discovery of any asbestos containing materials or suspected asbestos containing materials identified during the course of the works is immediately brought to the attention of the client.

2.51 The project will be a notifiable project under the Construction (Design & Management) Regulations 2015 ( CDM 2015 ) The Contractor will be nominated as ‘Principal Contractor’ and allowance should be made within the tender for compliance with the requirements of these regulations and to provide information as requested by the Principal Designer for inclusion in the Health and Safety File.

2.52 Where suspect material (asbestos of asbestos based products) is found it should be reported to the Contract Administrator immediately. The Contractor will not be expected to and must not as part of this Contract remove or disturb any suspect or confirmed material.

## 3.0 COMMUNAL FIRE DOORSETS

## In communal corridor/stairwells for compartmentation

3.1 Construction: All doorsets, side panels and fanlights to be fire rated to FD60(S) unless it is specified that FD30(s) is suitable as required by site conditions.

Evidence of fire and smoke tests must be undertaken at a UKAS accredited test station and held by the Manufacturer as complete doorset.

All the relevant certifications must be provided to Ealing Council, assessments will not be accepted. , Evidence will include provision of the complete fire resistance test paperwork, smoke test data, acoustic and insulation data for each door model supplied prior to installation.

3.2 Doorsets are to meet the following legislation and requirements;-

* Approved Document B of the Building Regulations
* British Standard BS9999:2008
* British Standard BS 8214:2008
* British Standard BS 476:Part 20/22:1987, BS EN1634-1:2008 and BS EN1634-3:2004
* Requirements of the Regulatory Reform (Fire Safety) Order 2005
* ENISO:10140-2:2010

3.3 All doorsets supplied will have been tested as a complete installed system as they will be installed on site (including all ironmongery, door closer, hinges etc). Any variations to the tested system will need to be approved by Ealing Council prior to introduction and may result in retesting if required. All doorsets will comply with the following:

* .
* Fire doorsets shall be tested to 60 minute or 30 minute fire resistance and be able to limit the spread of smoke (FD30S & FD60S).
* Fire doorsets tested to BS 476 Part 22:1987 or BS EN 1634-1:2008 fire resistance and Part 31.1:1983 smoke control or BS EN 1634-3:2004.
* Tested as complete doorset system, not purchased separately and pieced together, in accordance with BS9999:2008, BS8214:2008 - with proof of test reports to denote that all parts have been tested as a complete assembly.
* The doorset shall be manufactured as part of either the BWF-CERTIFIRE or BM TRADA or Q-MARK certification scheme. Any alternative scheme intended to be used will need to be a certified scheme, UKAS accredited and approved by Ealing Council prior to use.
* If overhead panels and side panel are to be installed test data shall include certification on systems included as part of the door fire resistance test. Assessments will not be accepted.
* All fire doors should satisfy the requirements of the Regulatory Reform (Fire Safety) Order and accompanying guidance, as these areas form part of the protection for ingress for fire fighters, as well as escape routes for the people in the building. For this reason, the doorset must adequately demonstrate a design that reduces maintenance and assists with the longevity of the doorset. Manufacturer to provide written statement detailing how the reduction of maintenance has been achieved and incorporated in their design.

3.4 Requirements to include the following: \_

* All fire doors (except Service Risers) shall have drop down threshold smoke seal in line with BS9999:2008, tested as a complete doorset system. Threshold seal to be fitted within the door leaf.
* Door vision panel with replaceable cartridge unit comprising standard Pyroshield safety clear glazing or with optional security glazing enhancement with secure fixing method.
* Overhead door closing device with controlled forces, tested as part of the complete doorset. The closing device must be fitted with security fixings.
* Doorset Factory Finish- Colour, leaf White, frame, side panels and fanlights White. Hinges- Must be CE-marked with test evidence that demonstrates that the hinges have undergone testing to EN1935:2002 to meet a minimum of grade 12.
* D-handles, push plates, hinges and kick plates to be secured using security fixings.
* Doorsets must have a minimum acoustic rating of 29dB as per Approved Document E to the Building Regulations.
* Combination frame side panels, bottom panel to be solid, top panel fire glazed.

3.5 Other requirements:

* Doorset warranty to a minimum of 5 years.
* No cost disposal of existing doorsets, waste disposal licence must be provided.
* Tenderer to provide statement that their doorset design reduces maintenance and assists with the longevity of the doorset.
* Tenderer to provide test evidence for all areas detailed in this specification.
* Supervisors/Operatives installing doors must be either FIRAS or BM-TRADA or Q-MARK certified installers and tenders must provide details of certification and any manufacturers training installation courses attended.
* Making good – installers responsible up to 400mm from the frame edge to making good, plastered and painted finished matching original colour. Any damage to masonry must be cut out and replaced with matching bricks/blockwork bedded in mortar. All brickwork and blockwork shall be in accordance with BS5628-3:2005.

## 4.0 DOORSETS FD30(S)

##  Residential Front Entrance Doors

4.1 Doorsets are to meet the following requirement:

* Approved Document B of the Building Regulations
* British Standard  BS9999:2008 –
* British Standard BS 8214:2008
* British Standard BS 476:Part 20/22:1987, BS EN1634-1:2008 and BS
* British Standard BS 7950: 1997
* EN1634-3:2004
* Requirements of The Regulatory Reform (Fire Safety ) Order 2005
* All door sets supplied shall have been tested as a complete installed system
* Secured by Design  PAS 23 – 1:1999 & PAS 24 :Part E & Part M
* EN ISO:10140-2:2010
* BS 6375: Parts 1 & 2
* ENISO10077-2:2005
* British Board of Agreement certified

4.2 **Performance Specification**

* Doorset tested to BS 476 Part 22 or BS EN 1623-1: 2008 fire resistance and Part BS476 part 31 or EN1634-3:2004 for smoke control – both in full scale separate test. BS9999:2008,BS8214:2008.
* Evidence of fire and smoke tests must be undertaken at a UKAS accredited test station and held by the Manufacturer as complete doorset, all the relevant certifications must be provided to Ealing Council assessments will not be accepted.
* Evidence of acoustic and insulation data for each door model installed is required.
* Test reports must demonstrate that all parts have been tested as a complete doorset system, not purchased separately, and pieced together. This shall include door/ frame/hinges/intumescent seals / glazing/ ironmongery / door closures/ and locking systems. The doorset shall be manufactured as part of either BWF-CERTIFIRE or BM TRADA or Q-MARK certification scheme. Any alternative scheme intended to be used will need to be a certified scheme, UKAS accredited and approved by Ealing Council prior to use.
* Door glazing to be double glazed unit comprising fire insulated glazing conforms to safety requirements EN 12600 and security requirements to minimum EN356 P2A.
* Side panel and top panel glazing to be double glazed unit comprising fire insulated glazing, conforming to safety requirements EN12600 and security requirements to minimum EN356 P2A.
* Overhead door closing device with controlled forces, tested as part of the complete doorset.
* Door set Painted Finish- Colour, leaf    WHITE, RED, DARK GREEN, BLUE, DARK BLUE.Frame White, minimum of 2 coats undercoat 2 top coats (Ealing Council preferred paint Manufacturer, Integra Coatings Ltd, 0208 348 8234 James Richards, email: james@integracoatings.com) .
* Door Styles, manufacture to provide choice of various designs that include glazed doors. Glazed doors to be fitted with high security glass. Test sample 300mm x 200mm to be provided to Ealing Council for security evaluation.
* Threshold seals designed to meet the requirements of Approved Document M to the Building Regulations for accessible thresholds

4.3 **Door security**

* The doorset is certified to PAS 23/24 and approved by ‘Secured by Design’ with two individual locking systems (not multipoint locking), tested as part of complete doorset. Hardware must be to EN1906:2010 with anti-bump cylinders or better.
* Thumb turn means of escape must be installed on all flat entrance doors.
* Door knocker with integral or separate viewer or suitable letterplate (Contract Administrator to advise). Door Restrictor. Letter plate: fire and smoke certified with security internal deflector.
* Test sample of letter plate to be provided to London Borough of Ealing for test / security evaluation.

4.4 **Acoustic and thermal rating of door**

* Door sets must have a minimum acoustic rating of 29dB as per Approved Document E to the Building Regulations and EN ISO10140-2:2010
* Tested to EN ISO10077-2:2005 for thermal insulation

4.5 **Standard doorset**

* Up to maximum height of 2100mm x 935mm width.

4.6 **Additional requirements**

* Doorset warranty to a minimum of 5 years.
* No cost disposal of existing doorsets, waste disposal licence must be provided
* Tenderer to demonstrate / evidence biodegradable eco aspects of doorset design
* Tenders must demonstrate process they are undertaking for future CE- marking of Fire doorsets.
* Tenders to provide a short statement that their doorset design reduces maintenance and assist with the longevity of the doorset.
* Supervisors/Operatives installing doors must be either FIRAS or BM-TRADA or Q-MARK certified installers and tenders must provide details of certification and any manufacturers training installation courses attended.

4.7 **Installation**

* Making Good – Installers responsible up to 400mm from the frame edge to making good, plastered and painted finished matching original colour. Any damage to masonry must be cut out and replaced with matching bricks/blockwork bedded in mortar. All brickwork and blockwork shall be in accordance to BS5628-3:2005.

## 5.0 FIRE SIGNAGE

5.1 All works to be carried out strictly in accordance with the product manufacturer’s instructions, the relevant Approved Documents and the relevant British Standards and harmonised EN classifications.

5.2 All fire signage to be installed in accordance with the following legislation

* Regulatory Reform (Fire Safety) Order 2005
* Health and Safety (Safety Signs and Signals) Regulations 1996
* British Standard 5499
* Building Regulations

## 6.0 SEALING SYSTEMS

6.1 All works to be carried out strictly in accordance with the product manufacturer’s instructions, the relevant Approved Documents and the relevant British Standards and harmonised EN classifications.

6.2 All products used shall be tested against the British Standards – currently BS 476 parts 3 to 11 for ‘Reaction to Fire Tests’ and parts 20 to 24 to cover ‘Fire resistance Tests’. The Construction Products Directive (CPD) has led to the harmonisation with the British Standards and BS EN 13501 and BS EN 1363 respectively and BS EN 1634 Fire Doors and Shutters. All fire protection products and systems should be supported by a relevant fire test report and/or assessment.

6.3 Product literature must be provided to show the correct use of the materials and the range of their test evidence, together with any certification that may exist for the product. All products used will be applied or installed strictly in accordance with the manufacturer’s instructions.

6.4 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 purposes stated in or reasonably to be inferred from the project documents, and in accordance with good building practice.

6.5 Handle, store, prepare and use or fix each product in accordance with its manufacturer's current printed or written recommendations/instructions. Inform the Contract Administrator if this conflicts with any other specified requirement. Submit copies to the Contract Administrator when requested.

6.6 Where British Board of Agreement certified products are used, comply with the limitations, recommendations and requirements of the relevant valid

## 7.0 FIRE COLLARS AND PILLOWS

7.1 All works to be carried out strictly in accordance with the product manufacturer’s instructions, the relevant Approved Documents and the relevant British Standards and harmonised EN classifications.

7.2 All products used shall be tested against the British Standards – currently BS 476 parts 3 to 11 for ‘Reaction to Fire Tests’ and parts 20 to 24 to cover ‘Fire resistance Tests’. The Construction Products Directive (CPD) has led to the harmonisation with the British Standards and BS EN 13501 and BS EN 1363 respectively and BS EN 1634 Fire Doors and Shutters. All fire protection products and systems should be supported by a relevant fire test report and/or assessment.

7.3 Product literature must be provided to show the correct use of the materials and the range of their test evidence, together with any certification that may exist for the product. All products used will be applied or installed strictly in accordance with the manufacturer’s instructions.

7.4 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 purposes stated in or reasonably to be inferred from the project documents, and in accordance with good building practice.

7.5 Handle, store, prepare and use or fix each product in accordance with its manufacturer's current printed or written recommendations/instructions. Inform the Contract Administrator if this conflicts with any other specified requirement. Submit copies to the CA when requested.

7.6 Where British Board of Agreement certified products are used, comply with the limitations, recommendations and requirements of the relevant valid certificates.

## 8.0 FIRE CAVITY BARRIERS

8.1 All fire cavity barriers installations must be carried out strictly in accordance with ROCKWOOL manufacturer’s instructions (preferred product GB2393119B) as part of FIREPRO.

It is essential the product range used for the fire cavity barriers insulation is prepared, use or fix to ensure high performance that limits the heat transfer through the barriers, preventing ignition of combustible materials in adjacent areas.

##  PAINTING

9.1 This comprises all the surfaces described in the schedule of works.

Ealing Council preferred paint Manufacturer Integra Coatings Ltd, 0208 348 8234, James Richards, email:james@integracoatings.com.

9.2 Warrington Blue Board tested paint system is to be used on all surfaces

Any deviation from this product/brand is to be agreed with the Contract Administrator prior to commencing the works.

The selected manufacturer will provide a specification for each property.

The paint is to be applied strictly in accordance with the manufactures recommendations this includes application method, number of coats, use of under coats and primers and suitability of the paint type for the base material.

9.3 All preparation is to be conducted in line with the manufacturer’s recommendations. This includes the use fillers, paint strippers, abrasives and substrate materials.

9.4 The selected manufacturer will issue guarantee confirming Class O painting will be achieved in conjuction with the existing substrate.

9.5 All colours and finishes are to be agreed with Contract Administrator prior to commencing the works. Sample areas may be required for Contract Administrator/Client Approval.

9.6 The finish of pre finished components is to be agreed prior to their installation.

## CARPENTRY/JOINERY

10.1 All fire door sets to be supplied as per the specification appended to this document. The term door set refers to the door leaf, frame, threshold, ironmongery, locks, kick plates and any other components that make up that door. Evidence that the system is fire rated for 30 minutes must be supplied to the Contract Administrator before installation.

10.2 All door sets are to be supplied to fit the existing openings.

10.3 Details of all packing / filling materials are to be supplied to the Contract Administrator before they are used on site.

10.4 The style and finish of each door set is to be agreed with the Contract Administrator prior to the commencement of the works.

10.5 Lock types and number of keys supplied are to be agreed with Contract Administrator prior to the commencement of the works.

10.6 All sharp edges are to have pencil rounded arises.

## 11.0 GLAZING

11.1 No glass is to be left on the site at any time

11.2 All glass is to be fire rated and installed into the system (door set or otherwise) as per the manufactures recommendations. This includes beading, sealing, edge treatments etc. Where the level of glazing is changing (by dimension) to what is currently installed it is to be agreed with the Contract Administrator. **Safety kite mark to be on display, identification must be labelled clearly on glass within door or side light of fanlights in walls etc.**

11.3 Replacement windows are to be supplied to fit the existing openings. The style, type of glass (excluding fire performance), internal and external finishes is to match the existing. The Contract Administrator is to approve the windows before installation.

## 12.0 FIRE STOPPING

12.1 All penetrations, around pipes and cables etc. through compartment walls are to be sealed with suitable intumescent mastic.

12.2 All other breaks in compartment walls (including cavities, large gaps around services and etc.) are to be filled as specified in the schedule of works.

12.3 All material deviations from the schedule of works are to be agreed in advance with the Contract Administrator in advance of the works taking place.