

SPECIFICATION




**Woking CPR
MDG Project No 61713**

**Section L20
Doors/ shutters/ hatches**

Eric Leitch

11003/MDG/ZZ/XX/SP/A/L20
Revision: P02
Date: 26.05.2020

Verification

Rev.	Status*	Author		Reviewed		Approved	
		Signature	Date	Signature**	Date	Signature**	Date
P02	S3	 Eric Leitch	26.05.20	 Jemma Gill	26.05.20	 Jemma Gill	26.05.20
*Status used in accordance with Design Management Plan **Confirms verification in accordance with Project Control Plan							

Revision Issue Record

Rev.	Description	Issue Purpose	Date
P01	First Issue	Tender (Cost market testing)	10.06.19
P02	No amendments	Review and Comment	26.05.20

Document prepared by:

Sir Robert McAlpine Design Group
 Eaton Court
 Maylands Avenue
 Hemel Hempstead
 Hertfordshire
 HP2 7TR
 Tel: +44 (0)1442 233444
 www.sir-robert-mcalpine.com

For:

Client name and address

© Sir Robert McAlpine Ltd

All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means, including photocopying and recording, without the written permission of the copyright holder, application for which should be addressed to the publisher. Such written permission must also be obtained before any part of this publication is stored in a retrieval system of any nature.

L20 Doors/ shutters/ hatches

To be read with Preliminaries/ General conditions.

GENERAL

105A GENERAL SCOPE

The design of the Works in accordance with the design principles described in this Specification.

The co-ordination of interfaces with works by others.

The surveying of the site as necessary.

The submissions described in this Specification.

The statutory approvals described in this Specification.

The procurement, supply, fabrication, manufacture, delivery to site, assembly and installation of the Works.

The supervision and inspection of the Works.

The tests and commissioning described in this Specification.

The protection of the Works.

The drying and heating of the Works.

The final cleaning of the Works.

106A DOORS AND DOORSETS

- Design, supply and installation of doors and associated works:
 - Timber / steel pedestrian pass doorsets and service doorsets
 - Louvred doorsets
 - Weather proof threshold strip allow for level access and a water tight enclosure.
 - All necessary steelwork to support door frame.
 - Severe duty stainless steel ironmongery and statutory signage.
 - All necessary seals and weather strips in order meet air tightness, water tightness and acoustic criteria.
 - Cavity closers associated with cladding panel interface.

107A SIGNAGE

- Mandatory, hazard, fire alarm and room name signs to be provided. Signs to be engraved stainless steel. Signage to be of the following types:
 - Room Name
 - Fire Door Keep Shut
 - Health and Safety sign
 - Restricted Access sign

110 EVIDENCE OF PERFORMANCE

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

112 TIMBER PROCUREMENT

- Timber (including timber for wood-based products): Obtained from well-managed forests and/ or plantations in accordance with:
 - The laws governing forest management in the producer country or countries.
 - International agreements such as the Convention on International Trade in Endangered Species of wild fauna and flora (CITES).
- Documentation: Provide either:
 - Documentary evidence (which has been or can be independently verified) regarding the provenance of all timber supplied.
 - Evidence that suppliers have adopted and are implementing a formal environmental purchasing policy for timber and wood-based products.
- Certification scheme:
 - UK Timber procurement policy Category A evidence certification scheme.;
 - Canadian Standards Association (CSA);
 - Forest Stewardship Council (FSA);
 - Programme for the Endorsement of Forest Certification (PEFC); or
 - Sustainable Forestry Initiative (SFI), with Chain of Custody.
 - Other evidence: None.

115 FIRE RESISTING DOORS/ DOOR ASSEMBLIES/ DOORSETS

- Door products: As defined in BS EN 12519.
- 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 or smoke resistance if tested to BS 476-22, BS EN 1634-1 or BS EN 1634-3. Such certification must cover door and frame materials, glass and glazing materials and their installation, essential and ancillary ironmongery, hinges and seals.
- Components, assemblies or sets will be marked to the relevant product standard and/ or third party certification rating.

120 NON FIRE RESISTING DOORS/ DOOR ASSEMBLIES/ DOORSETS

- Provide certified evidence, in the form of a product conformity certificate or engineering assessment, that each 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.
- Components and assemblies will be marked to the relevant product standard and/ or third party certification rating.

150 SITE DIMENSIONS

- Procedure: Before starting work on designated items take site dimensions, record on shop drawings and use to ensure accurate fabrication.
- Designated items: All doorsets.

PRODUCTS**410A WOOD DOORSETS SEVERE DUTY; EXTERNAL; FD30S and FD60S FIRE RESISTING AND SMOKE CONTROL**

- Manufacturer: ASSA ABLOY UK.Ltd, School Street, Willenhall, West Midlands. WV13 3PW or equivalent approved.
Web: www.assaabloy.co.uk.
Contact: Allan Thomson 07887 756165; allan.thomson@assaabloy.com
 - Product reference: SMARTec™ Fire Doorsets.
- Door leaf:
 - Facings: Exterior grade plywood.
 - Lippings: Hardwood lipping all round.
 - Finish as delivered: Prepared and primed.
- Frame and architraves:
 - Wood species: Engineered redwood.
 - Finish as delivered: Prepared and primed.
 - Fixing holes: Factory prepared, four per jamb
- Preservative treatment: Submit proposals.
- Glazing/ Infill details: Refer to door schedule.
 - Manifestation: Not applicable.
 - Beading: Manufacturer's standard.
- Ironmongery: Refer to schedule.
- Perimeter seals: Intumescent and smoke seals as per manufacturer's factory standard, when required.
- Thermal performance (U-value maximum): Manufacturer's standard.
- Other requirements: Gap between wall/partition/lintel and door frame to be fire stopped.
- Fixing: Strictly in accordance with manufacturers fixing instructions.

480A STEEL DOORSETS SEVERE DUTY; EXTERNAL; STEEL FIRE DOOR, FD30S, FD60S and FD120S FIRE RESISTING AND SMOKE CONTROL

- Manufacturer: ASSA ABLOY UK.Ltd, School Street, Willenhall, West Midlands. WV13 3PW or equivalent approved.
Web: www.assaabloy.co.uk.
Contact: Allan Thomson 07887 756165; allan.thomson@assaabloy.com.
 - Product reference: Powershield Fire Doorset.
- Type/ configuration: single action / single and double leaf.
- Door leaf: 1.2mm Galvalite ZF Galvanneal steel skins with non combustible core.
 - Finish as delivered: Polyester powdercoated.
- Frame and architraves: 1.5 mm steel Galvalite ZF Galvanneal.
 - Finish as delivered: Polyester powdercoated.
- Glazing/ Infill details: Refer to schedule.
 - Manifestation: Not applicable.
 - Beading: Manufacturers standard.
- Ironmongery: Refer to schedule.
- Perimeter seals: Intumescent and smoke seals as per manufacturer's factory standard, when required.
- Thermal performance (U-value maximum): Manufacturer's standard.
- Other requirements: Gap between wall/partition/lintel and door frame to be fire stopped.
- Fixing: Strictly in accordance with manufacturers fixing instructions.

482A DOORSETS STEEL FRAMED GLAZED DOORS; FD90S FIRE RESISTING AND SMOKE CONTROL : HOTEL / CARPARK

- Manufacturer: IQ Metal, Units 8 & 9 Nazeing Glass Works Estate, Nazeing New Road, Broxbourne, Herts, EN10 6SU or equivalent approved.
 - Product reference: Jansen Building Systems - Janisol C4 EI90.
- Door leaf: Galvanised steel.
 - Finish as delivered: Polyester powdercoated.
- Frame and architraves: Galvanised steel.
 - Finish as delivered: Polyester powdercoated.
- Glazing/ Infill details: Clear fire-resisting glazing.
 - Manifestation: Not required.
 - Beading: Manufacturers standard.
- Ironmongery: Refer to schedule.
- Perimeter seals: Intumescent and smoke seals as per manufacturer's factory standard, when required.
- Thermal performance (U-value maximum): Manufacturer's standard.
- Other requirements:
 - Primary leaf power operated, non active leaf generally locked or fixed glass side screen
 - Gap between wall/partition/lintel and door frame to be fire stopped.
- Fixing: Strictly in accordance with manufacturers fixing instructions.

485A DOORSETS EXTERNAL LOUVRED TO UKPN SUBSTATION

- Manufacturer: Sunray Engineering Ltd., Kingsnorth Industrial Estate, Wotton Road, Ashford., Kent TN23 6LL or equivalent approved.
T: 01233 639039.
 - Product reference: Louvre door to UKPN requirements, single and double leaf.
- Description: Steel composite doorset with 100 x 50mm box section frame, 100 x 10mm flat threshold to UKPN requirements. Not fire rated but meeting UKPN blast resistance requirements.
 - Finish as delivered: Polyester powdercoated.
- Glazing/ Infill details: Not applicable.
 - Manifestation: Not applicable.
 - Beading: Not required.
- Ironmongery: To UKPN requirements.
- Perimeter seals: Not required.
- Thermal performance (U-value maximum): N/A.
- Other requirements: Sealant to manufacturer's recommendations.
- Fixing: Strictly in accordance with manufacturers fixing instructions.

485B DOORSETS EXTERNAL LOUVRED TO THAMESWAY SUBSTATION

- Manufacturer: Sunray Engineering Ltd., Kingsnorth Industrial Estate, Wotton Road, Ashford., Kent TN23 6LL or equivalent approved.
T: 01233 639039.
 - Product reference: Louvre door to Thamesway requirements, single and double leaf.
- Description: Steel composite doorset with 100 x 50mm box section frame, 100 x 10mm flat threshold. Not fire rated but meeting Thamesway requirements.
 - Finish as delivered: Polyester powdercoated.
- Glazing/ Infill details: Not applicable.
 - Manifestation: Not applicable.
 - Beading: Not required.
- Ironmongery: To Thamesway requirements.
- Perimeter seals: Not required.
- Thermal performance (U-value maximum): N/A.
- Other requirements: Sealant to manufacturer's recommendations.
- Fixing: Strictly in accordance with manufacturers fixing instructions.

EXECUTION

710 PROTECTION OF COMPONENTS

- General: Do not deliver to site components that cannot be installed immediately or placed in clean, dry, floored and covered storage.
- Stored components: Stacked on level bearers, separated with spacers to prevent damage by and to projecting ironmongery, beads, etc.

730 PRIMING/ SEALING

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

750 FIXING DOORSETS

- Timing: After associated rooms have been made weathertight and the work of wet trades is finished and dried out.

760 BUILDING IN

- General: Not permitted unless indicated on drawings.

780 DAMP PROOF COURSES IN PREPARED OPENINGS

- Location: Correctly positioned in relation to door frames. Do not displace during fixing operations.

790 FIXING OF WOOD FRAMES

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

800 FIXING OF LOOSE THRESHOLDS

- Spacing of fixings: Maximum 150 mm from each end and at 600 mm maximum centres.

809 FIRE RESISTING/ SMOKE CONTROL DOORS/ DOORSETS/ ROLLER SHUTTERS/ CURTAINS

- Installation: By a firm currently registered under a third party accredited fire door installer scheme in accordance with instructions supplied with the product conformity certificate, test report or engineering assessment.

810 FIRE RESISTING/ SMOKE CONTROL DOORS/ DOORSETS/ ROLLER SHUTTERS/ CURTAINS

- Gaps between frames and supporting construction: Filled as necessary in accordance with requirements for certification and/ or door/ doorset manufacturer's instructions.

820 SEALANT JOINTS

- Sealant:
 - Manufacturer: Submit proposals .
 - Product reference: Submit proposals .
 - Colour: TBA .
 - Application: As section Z22 to prepared joints. Triangular fillets finished to a flat or slightly convex profile.

830A FIXING IRONMONGERY GENERALLY

- Fasteners: Supplied by ironmongery manufacturer.
 - Finish/ Corrosion resistance: To match ironmongery.
- Holes for components: No larger than required for satisfactory fit/ operation.
- Adjacent surfaces: Undamaged.
- Moving parts: Adjusted, lubricated and functioning correctly at completion.
- Additional requirements: Through fixings required to all pull handles and lever handles.

840 FIXING IRONMONGERY TO FIRE RESISTING DOOR ASSEMBLIES

- General: All items fixed in accordance with door leaf manufacturer's recommendations ensuring that integrity of the assembly, as established by testing, is not compromised.
- Holes for through fixings and components: Accurately cut.
 - Clearances: Not more than 8 mm unless protected by intumescent paste or similar.
 - Lock/ Latch cases for fire doors requiring \geq 60 minutes integrity performance: Coated with intumescent paint or paste before installation.

850 LOCATION OF HINGES

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

860 INSTALLATION OF EMERGENCY EXIT DEVICES

- Standard: Unless specified otherwise, install panic bolts/ latches in accordance with BS EN 1125.