

L20

Doors/ shutters/ hatches

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:**
 - 3.1. Other evidence:

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

1. **CE marked fire resisting and smoke control pedestrian 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. Specified values should not be a combination of both standards. Such certification must cover door and frame materials, glass and glazing materials and their installation, essential and ancillary ironmongery, hinges and seals.
4. Components, assemblies or sets 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 European product standard (hEN), national product standard and/ or third party certification rating.

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

170 Control samples

1. **Procedure**
 - 1.1. Finalize component details.
 - 1.2. Fabricate one of each of the following designated items as part of the quantity required for the project.
 - 1.3. Obtain approval of appearance and quality before proceeding with manufacture of the remaining quantity.
2. **Designated items:**

Products

280A External Aluminium Doors

1. - Manufacturer: Kawneer UK Ltd, Astmoor Industrial Estate, Runcorn, Cheshire WA7 1QQ (Tel 01928 502 500 Fax 01928 502 509)
Contact David Scott, tel no: 07484 097215, e-mail: David.scott@arconic.com
 - Product reference: AA TB thermally broken aluminium welded door suitable for severe duty category of use as defined by BS 6375-2, and mechanical strength tested to Class 4 (BS EN 1192)
 - Equalities Act Drained Low Threshold
 - Finish as delivered: PPC powder coated as section Z31, min film thickness 60 microns
 - Profiles:
 - Door stile: Kawneer 3002586
 - Meeting stiles: Kawneer 3002419 and 3002420
 - Bottom rail: Kawneer 3002426
 - Head rail: Kawneer 3002 587
 - Mid rail: Kawneer 3002429
 - Glazing details: Doors to be glazed with EPDM gaskets.
 - Ironmongery:
 - Automatic sliding operator by others
 - Kawneer 8002572 Adams Rite Sentinel M multi point dead lock
 - Other requirements: all doors to have a suitable floor fixed door stop to prevent the door going beyond its normal operating angle.All external doorsets to achieve PAS 24:2012 standard for Secure by Design when locked.
 - Main entrance doors to be assisted powered opening, provide operators in agreed positions.
 - Entrance doors to have access controls where identified on the Electrical Engineers drawings.
 - Allow cabling space for access controls to be incorporated within door frame sections, refer to Electrical Engineers drawings and specification for details/ locations

370A Aluminium Door Frames

1. Manufacturer: Kawneer UK Ltd, Astmoor Industrial Estate, Runcorn, Cheshire WA7 1QQ (Tel 01928 502 500 Fax 01928 502 509)
Contact David Scott, tel no: 07484 097215, e-mail: David.scott@arconic.com
 - Product reference: Inserted into Kawneer AA100 zone drained curtain wall system
 - Perimeter seals: Brush pile weatherseals
 - Finish as delivered: PPC powder coated as section Z31, min film thickness 60 microns
 - Fixing: To Kawneer's Installation Instructions

410A Wood Doorsets

1. Refer to Door Schedule and Plans 10401 - 10407
33210 Typical Internal Door Elevations
Door Schedule 63210 - 63215
Manufacturer: Ahmarra Door Solutions Ltd
Web: <https://ahmarra.co.uk>
Email: sales@ahmarra.co.uk
Tel: +44 (0)2392 389 076
Address: Unit 20, Fitzherbert Road, Farlington, Portsmouth, Hampshire PO6 1SD

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 doorset supplied will comply with the specified requirements for fire resistance if tested to BS 476-22 or BS EN 1634-1. Such certification must cover door and frame materials, glass and glazing materials and their installation, essential and ancillary ironmongery, hinges and seals
Certification: BM Trada Q-Mark Fire Door Manufacturers Scheme
Environmental: FSC chain of custody certification - TT-COC-002180
Fire performance: Please refer to Architects Door Schedule
Smoke control: Required where denoted with suffix "S" on architects door schedule
Acoustic performance: Please refer to Architects Door Schedule
Accessibility: Consideration to be given to the requirements of BS8300
Moisture content on delivery: 10 to 12%
Range: Ahmarra Education Range
Door Description: Interior Laminate Doorsets
Core: Timbercore (Severe Plus Usage)
Facings: High Pressure Laminate
Door Colour: Laminate - Standard Colour Range
Door Finish: Laminate: No finish - Lippings Clear lacquered
Lipping Species: American Black Walnut
Lippings: Exposed 8mm Hardwood Lipping to all four edges
Aperture Configuration: Ahmarra VP02 1400 x Full Width aperture - where applicable on architects door schedule
Glass: Clear Glass where applicable to suit Fire & Acoustic rating
Glazing Bead: Hardwood Cloak Bead material to match lipping - pin fixed
Frame Type: SFR - 32mm split lining with extended stop (where frames generally exceed 156mm but the aesthetic of a solid one piece frame is desired)
Frame Material: American Black Walnut
Frame Finish: Clear Lacquered
Architraves: 69 x 18mm - finish to match frame (3mm pencil round))
Automatic Drop Down Seals: Required to all acoustically attenuated doors and all smoke control doors (as defined on door schedule)
Hinges: Butt Hinges SSS Class 13, supplied and fitted by Ahmarra
Finger Protection: Yes Integral Finger Protection
Ironmongery: Education Range - Full Supply and Factory fitting of Architectural Ironmongery
Ironmongery Finish: Grade 316 Stainless Steel
Installation: To be installed by a qualified installer with Q-mark or FIRAS accreditation
Inspection: Door Inspections to be carried out at 6 monthly intervals by Qualified Fire Door Inspector
Special requirements: Glazed screens, side screens inc manifestation. Refer to screen schedule for performance requirements.

530A SLIDING FOLDING EXTERNAL DOORS

1. To Assembly Hall
- Manufacturer: Kawneer UK Ltd, Astmoor Industrial Estate, Runcorn, Cheshire WA7 1QQ (Tel 01928 502 500 Fax 01928 502 509)

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Contact David Scott, tel no: 07484 097215, e-mail: David.scott@arconic.com

- Product reference: AA3720 Thermally Broken Aluminium Bi-Fold door suitable for severe duty category of use as defined by BS 6375-2, and mechanical strength tested to Class 4 (BS EN 1192)

Equalities Act Drained Low Threshold

- Configuration: Open in
- Bead : Softline rounded contours

Rebated, low and sunken track with stainless steel rollers

- Finish as delivered: PPC powder coated as section Z31, min film thickness 60 microns
- Glazing details: Doors to be glazed with EPDM gaskets.
- Ironmongery:
 - Kawneer 8002572 Adams Rite Sentinel M multi point dead lock
- Other requirements: all doors to have a suitable floor fixed door stop to prevent the door going beyond its normal operating angle.

2. Additional: thermal shields

3.

545A Sliding stacking panel partitions

1. To meeting room G.18
 - Name: Style - Moveable Partition Specialists
 - Web: www.style-partitions.co.uk
 - Email: south@style-partitions.co.uk
 - Tel: +44 (0)1202 874044
 - Fax: +44 (0)1202 874844
 - Address: Style South, Consort House, Princes Road, Ferndown, Dorset BH22 9JG
2. Product reference
 - Dorma Variflex 100 Moveable Wall
 - 100 mm thickness.
 - Size: 3200mm W x 2700 H track hidden in line of acoustic ceiling
3. Element: overlapping
4. Acoustic Rw :44dB
5. Parking arrangement: as drawing single point to 90 deg partition axis
6. Doors with flush lever handles and a Euro Profile cylinder lock
7. Track system: Type R
8. Cover panel: Type U with protective all round adge trim
9. Double-skin sound baffle
10. Semi-automatic actuator function

545B Sliding stacking panel partitions

1. To Store G.09
 - Name: Style - Moveable Partition Specialists
 - Web: www.style-partitions.co.uk
 - Email: south@style-partitions.co.uk
 - Tel: +44 (0)1202 874044
 - Fax: +44 (0)1202 874844
 - Address: Style South, Consort House, Princes Road, Ferndown, Dorset BH22 9JG
2. Product reference
 - Dorma Variflex 100 Moveable Wall
 - 100 mm thickness.
 - Size: Double set 2500mm W x 2110 H to match classroom doorset

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3. FR panels 30min FR
4. Panel width to suit room width
5. Element: overlapping
6. Doors with flush lever handles and a Euro Profile cylinder lock
7. Parking arrangement: as drawing single point to 90 deg partition axis
8. Track system: Type R
9. Cover panel: Type U with protective all round adge trim
10. Double-skin sound baffle
11. Semi-automatic actuator function

Execution

710 Protection of components

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

730 Priming/ sealing

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

740 Corrosion protection

1. **Surfaces to be protected:**
2. **Protective coating:** Two coats of bitumen solution to BS 6949 or an approved mastic impregnated tape.
 - 2.1. **Timing of application:** Before fixing components.

750 Fixing doorsets

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

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.

780 Damp proof courses in prepared openings

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

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.

800 Fixing of loose thresholds

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

809 Fire resisting and smoke control doors/ door assemblies/ doorsets/ roller shutters and curtains - accredited installer

1. **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 and smoke control doors/ door assemblies/ doorsets/ roller shutters and curtains - contractor installed

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

811 Fire resisting and smoke control doorsets, industrial, commercial and garage doors

1. **Installation:** By manufacturer or their approved installers, in accordance with requirements of BS EN 16034 and in conjunction with BS EN 13241, including the Declaration of Performance (DoP) certification for the CE marked doorset.

820 Sealant joints

1. **Sealant**
 - 1.1. **Manufacturer:** Contractor's choice
 - 1.1.1. **Product reference:** Contractor's choice
 - 1.2. **Colour:** To match frame
 - 1.3. **Application:** As section Z22 to prepared joints. Triangular fillets finished to a flat or slightly convex profile.

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.

840 Fixing ironmongery to fire resisting door assemblies

1. **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.
2. **Holes for through fixings and components:** Accurately cut.
 - 2.1. **Clearances:** Not more than 8 mm unless protected by intumescent paste or similar.
 - 2.2. **Lock/ Latch cases** for fire doors requiring

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
3. **Hinges for fire resisting doors:** Positioned in accordance with door leaf manufacturer's recommendations.

860 Installation of emergency exit devices

1. **Standard:** Unless specified otherwise, install panic bolts/ latches in accordance with BS EN 1125.
Ω End of Section