

SPECIFICATION :	<b>Carpentry and Joinery</b>
PROJECT:	<b>Wembley NW09/10</b>
DOC REF.:	<b>WBL-GRID-ZZ-ZZ-SP-A-105</b>
DATE:	<b>07 June 2019</b>

NO.	REVISION	DATE	PREPARED BY	CHECKED BY
P0	Issue for Tender	07/06/2019	SP	MP

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# 25-50-20/120 Doorset system (Internal) - type DT-101

## System outline

### 25-50-20/120 Doorset system (Internal) type DT-101

- **Location:** Apartments; Entrance.
- **System performance:**
  - 25-50-20/205 Design submittals type A;
  - 25-50-20/240 Acoustic performance;
  - 25-50-20/260 Doorset security performance type A;
  - 25-50-20/290 Compliance with performance requirements type A;
  - 25-50-20/216 Fire performance requirements;
  - 25-50-20/295 Coordination of interfaces.
- **Doorset:**
  - **Type:** 45-25-28/348 Wood doorsets type A
- **System accessories:** 45-55-75/320 Acrylic construction joint sealants.
- **Samples required:** 25-50-20/505 Prototypes or mock-ups.
- **Execution:**
  - 25-50-20/605 Installation control samples;
  - 25-50-20/610 Preconstruction survey;
  - 25-50-20/640 Fixing of wood frames;
  - 25-50-20/645 Installing fire resisting and smoke control doorsets, door assemblies or doors;
  - 25-50-20/655 Fixing hardware type A;
  - 25-50-20/680 Frame sealant joints;
  - 25-50-20/685 Timing of fixing of doorsets;
  - 25-50-20/695 Protection of components;
  - 25-50-20/641 Fixing of Architraves;
  - and 25-50-20/690 Building-in permissions.
- **System completion:** 25-50-20/810 Documentation relating to doors, door assemblies and doorsets.

## System performance

### 25-50-20/205 Design submittals type A

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Design submittals:** Typical plan, elevational and section drawings at suitable scales.
- **Validation submittals:** Test certification for doors/ assemblies to show proposals for meeting performance requirements.
- **Format:** Electronic and paper format

### 25-50-20/216 Fire performance requirements

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-301, DT-308; type DT-302; type DT-303; type DT-305 and type DT-306, DT-307.

- **Requirement:** Refer to project fire strategy and Architects drawings/ door schedule for requirements.
- **Evidence of performance:**  
Provide certified evidence, in the form of a product conformity certificate, directly relevant fire test report or engineering assessment, that each door/ doorset/ assembly supplied will comply with the specified requirements for fire 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 seats.

### 25-50-20/240 Acoustic performance

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Performance:** Refer to project acoustic strategy and Architects drawings/ door schedule for requirements.

### 25-50-20/260 Doorset security performance type A

- **Standard:** Compliant with PAS 24: 2016 or equivalent standards as contained within the 2014 edition of the Secured by Design New Homes standards.
- **Conformity:** Certification by accredited third party certification body.

### 25-50-20/290 Compliance with performance requirements type A

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

### 25-50-20/295 Coordination of interfaces

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Requirement:** Refer to standard door drawings, frame and leaf fixing details. Coordinate with partition construction.

## Products

### 45-25-28/348 Wood doorsets type A

- **Third party accreditation:** Third party accredited by a UKAS approved/ recognised body.
- **Standard:** Internal fire rated doorset to BS 8214 and third party accredited.
- **Wood in joinery standard:** To BS EN 942.
- **Configuration:** Single leaf, single action.

- **Doorset size:** Refer to Architects drawings and door schedule.
- **Frame:**
  - **Material:** Hardwood frame (jambs left long).
  - **Species:** Poplar.
  - **Threshold:** TBC
  - **Perimeter seals or inserts:**  
Intumescent fire and smoke seals.  
Draught/weather seal.
  - **Finish:** Primed for site painting.
  - **Installation fasteners:** As recommended by door manufacturer.
  - **Frame accessories:** None.
- **Door leaf:**
  - **Thickness:** Refer to Architects drawings and door schedule.
  - **Core:** Solid core.
  - **Facings:** Paper veneer.
  - **Lippings:** 8mm hardwood.
  - **Perimeter seals:**  
Intumescent fire and smoke seals.  
Drop smoke and acoustic seal to achieve scheduled performance of complete doorset.
  - **Finish:** Primed for site painting.
  - **Door accessories:** None.
- **Planted stops:**
  - **Wood species:** Poplar.
  - **Finish:** Primed for site painting.
- **Hardware:**  
Refer to ironmongery schedule and specification.  
Hinges and flush fitting items factory fitted.
- **Architraves:**
  - **Material:** MDF architraves.
  - **Finish:** Primed for site painting.
- **Preservative treatment:** None.
- **Accessories:** MDF extension lining.
- **Execution:**  
45-25-28/605 Moisture content of wood products;  
45-25-28/630 Installing hardware;  
45-25-28/640 Workmanship in joinery;

#### **45-55-75/320 Acrylic construction joint sealants**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 35-05-50/150 Minor joinery system (Window Boards) type TRM-02.

- **Manufacturer:** Submit proposals.
- **Standard:** To BS EN ISO 11600.
- **Third party certification:** Third party accredited by UKAS approved or recognized body.
- **Sealant type:** Mastic.
- **Class:** F-12.5P.
- **Colour:** Submit proposals.

- **Fire resistance:** Submit relevant third party certified BS 476-20 test results.
- **Execution:**  
45-55-75/610 Suitability of joints for sealant application type B;  
45-55-75/620 Joint preparation for sealant application type B;  
45-55-75/630 Applying joint sealants type B.

## Custom made products

### 25-50-20/505 Prototypes or mock-ups

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Requirement:** Fabricate doorset including all components required to complete installation.
- **Purpose:** Obtain approval of appearance and quality.
- **Timing:** Before proceeding to manufacturer.

## Execution

### 25-50-20/605 Installation control samples

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Samples:** Complete doorset including any architrave, sealant and ironmongery.
- **Purpose:** For use as an installation reference sample.
- **Locations:** To be agreed with the Architect.
- **Features to be included:** All components required to complete the installation
- **Timing:** Construct during preliminary installation in an approved location. Obtain approval of appearance before proceeding.

### 25-50-20/610 Preconstruction survey

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Procedure:** Before starting work on designated items, take the site dimensions, record them on shop drawings and use them to ensure accurate fabrication.
- **Primary support structure:** Survey sufficiently to verify that the required accuracy and security of erection can be achieved.
- **Timing:** Before fabrication.

### 25-50-20/640 Fixing of wood frames

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105,

DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Method:** Plugged, screwed and pelleted.
- **Spacing of fixings (frames not predrilled) (maximum):** 150 mm from ends of each jamb and at 600 mm centres.

#### **25-50-20/641 Fixing of Architraves**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Method:** Pinned and glued architraves with extension linings with fixing holes polished out.

#### **25-50-20/645 Installing fire resisting and smoke control doorsets, door assemblies or doors**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-301, DT-308; type DT-302; type DT-303; type DT-305 and type DT-306, DT-307.

- **Standard:** In accordance with BS EN 16034.
- **Installer:** A firm currently registered under a third party accredited fire door installer scheme.
- **Installation:** In accordance with instructions supplied with the product conformity certificate, test report or engineering assessment.
- **Gaps between frames and supporting construction:** Not to exceed 3 mm along the two long edges and along the top of the of the door leaf (tolerance of  $\pm 1$  mm).
- **Labelling:**  
In accordance with third party certification scheme.  
To include manufacturer's name, fire rating and traceable serial number.

#### **25-50-20/655 Fixing hardware type A**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Holes for components:** No larger than required for satisfactory fit and operation.
- **Adjacent surfaces:** Do not damage.
- **Integrity of the assembly, as established by testing:** Do not compromise.
- **Cutting:** Cut accurately.
- **Clearances (maximum):** 8 mm, unless protected by intumescent paste or similar.
- **Hinges:**
  - **Primary hinge positions:** With centre lines 250 mm from top and bottom of door leaf.
  - **Third hinge position:** On centre line of door leaf. With centre line 250 mm below centre line of top hinge.

#### **25-50-20/680 Frame sealant joints**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Application:** Prepare joints. Form triangular fillets finished to a flat or slightly convex profile.

#### 25-50-20/685 Timing of fixing of doorsets

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

#### 25-50-20/690 Building-in permissions

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **General:** Not permitted unless indicated on drawings.
- **Where permitted:**
  - **Preparation:** Remove horns and provide support.
  - **Fixing cramps:** Fully bed in mortar or affix to subframe or reveal structure.

#### 25-50-20/695 Protection of components

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

#### 45-25-28/605 Moisture content of wood products

**Shared by:** 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** To BS EN 942.
- **Moisture content on delivery:**
  - 13–19% for external joinery.
  - 12–16% for unheated buildings.
  - 9–13% for buildings with heating providing room temperatures in the range 12–21°C.
  - 6–10% for buildings with heating providing room temperatures in excess of 21°C.

#### 45-25-28/630 Installing hardware

**Shared by:** 45-25-28/344 External metal doorsets type B; type C and type D; 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; 45-25-28/366 External sliding door and partition sets type A; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** In accordance with third party certification for doors, door assembly or doorsets.
- **Submissions:** Evidence of compliance with certification.



#### **45-25-28/640 Workmanship in joinery**

**Shared by:** 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** To BS 1186-2.

#### **45-55-75/610 Suitability of joints for sealant application type B**

- **Joint dimensions:** Within limits specified for the sealant.
- **Substrate quality:** Surfaces regular, undamaged and stable.
- **Joints not fit to receive sealant:** Submit proposals for rectification.

#### **45-55-75/620 Joint preparation for sealant application type B**

- **Surfaces to which sealant must adhere:** Remove temporary coatings, tapes, loosely adhering material, dust, oil, grease, surface water and contaminants that may affect bond.
- **Cleaning:** Use materials and methods recommended by sealant manufacturer.
- **Vulnerable surfaces adjacent to joints:** Mask and do not stain or smear with primer or sealant.

#### **45-55-75/630 Applying joint sealants type B**

- **Substrate:** As recommended by sealant manufacturer.
- **Environmental conditions:** Do not dry or raise temperature of joints by heating.
- **Sealant application:** Completely and neatly fill joints. Provide firm adhesion to substrates.
- **Sealant profiles:**
  - **Butt and lap joints:** Slightly concave.
  - **Fillet joints:** Slightly convex.
- **Protection:** Do not contaminate or damage finished joints.

### **System completion**

#### **25-50-20/810 Documentation relating to doors, door assemblies and doorsets**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Fire safety information:**  
Location of every fire door in the building, the fire door certificate relevant to the installed door, fire safety strategy, maintenance information for each component, frequency of inspection and maintenance depending on expected usage of the door.
- **Fire performance evidence:**  
Provide third party certification of product conformity with the specified fire performance for each door or doorset supplied. Include identifier schedule or similar to allow individual doors to be located;  
Test evidence must be in the name of the door or doorset manufacturer;  
All wood doors should be plugged to BM TRADA Q Mark requirements and/ or any CERTIFIRE metal foil labels where applicable.
- **Smoke performance:**  
Provide third party certification of product conformity with the specified smoke performance for

each door or doorset supplied. Include identifier schedule or similar to allow individual doors to be located. Test evidence must be in the name of the door or doorset manufacturer.

- **Acoustic performance evidence:**

Provide third party certification of product conformity for specified acoustic performance for sound attenuating door or doorset supplied.

Ω End of system

# 25-50-20/120 Doorset system (Internal) - type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07

## System outline

### 25-50-20/120 Doorset system (Internal) type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07

- **Location:** Apartments; bedroom, bathroom, cupboard
- **System performance:**
  - 25-50-20/205 Design submittals type A;
  - 25-50-20/240 Acoustic performance;
  - 25-50-20/290 Compliance with performance requirements type A;
  - 25-50-20/295 Coordination of interfaces.
- **Doorset:**
  - **Type:** 45-25-28/348 Wood doorsets type B.
- **System accessories:** 45-55-75/320 Acrylic construction joint sealants.
- **Samples required:** 25-50-20/505 Prototypes or mock-ups.
- **Execution:**
  - 25-50-20/605 Installation control samples;
  - 25-50-20/610 Preconstruction survey;
  - 25-50-20/640 Fixing of wood frames;
  - 25-50-20/655 Fixing hardware type A;
  - 25-50-20/680 Frame sealant joints;
  - 25-50-20/685 Timing of fixing of doorsets;
  - 25-50-20/690 Building-in permissions;
  - 25-50-20/695 Protection of components;
  - 25-50-20/641 Fixing of Architraves;
- **System completion:** 25-50-20/810 Documentation relating to doors, door assemblies and doorsets.

## System performance

### 25-50-20/205 Design submittals type A

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Design submittals:** Typical plan, elevational and section drawings at suitable scales.
- **Validation submittals:** Test certification for doors/ assemblies to show proposals for meeting performance requirements.
- **Format:** Electronic and paper format

### 25-50-20/240 Acoustic performance

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Performance:** Refer to project acoustic strategy and Architects drawings/ door schedule for requirements.

#### **25-50-20/290 Compliance with performance requirements type A**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

#### **25-50-20/295 Coordination of interfaces**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Requirement:** Refer to standard door drawings, frame and leaf fixing details. Coordinate with partition construction.

### **Products**

#### **45-25-28/348 Wood doorsets type B**

- **Third party accreditation:** Third party accredited by a UKAS approved/ recognised body.
- **Standard:** Internal fire rated doorset to BS 8214 and third party accredited.
- **Wood in joinery standard:** To BS EN 942.
- **Configuration:** Single leaf, single action.
- **Doorset size:** Refer to Architects drawings and door schedule.
- **Frame:**
  - **Material:** Hardwood frame (jambs left long).
  - **Species:** Poplar.
  - **Finish:** Primed for site painting.
  - **Installation fasteners:** As recommended by door manufacturer.
  - **Frame accessories:** None.
- **Door leaf:**
  - **Thickness:** Refer to Architects drawings and door schedule.
  - **Core:** Solid core.
  - **Facings:** Paper veneered.
  - **Lippings:** 8mm hardwood.
  - **Finish:** Primed for site painting.
  - **Door accessories:** None.
- **Planted stops:**
  - **Wood species:** Poplar.
  - **Finish:** Primed for site painting.
- **Hardware:**  
Refer to ironmongery schedule and specification.  
Hinges and flush fitting items factory fitted.

- **Architraves:**
  - **Material:** MDF architraves.
  - **Finish:** Primed for site painting.
- **Accessories:** None.
- **Execution:**
  - 45-25-28/605 Moisture content of wood products;
  - 45-25-28/630 Installing hardware;
  - 45-25-28/640 Workmanship in joinery;

#### **45-55-75/320 Acrylic construction joint sealants**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 35-05-50/150 Minor joinery system (Window Boards) type TRM-02.

- **Manufacturer:** Submit proposals.
- **Standard:** To BS EN ISO 11600.
- **Third party certification:** Third party accredited by UKAS approved or recognized body.
- **Sealant type:** Mastic.
- **Class:** F-12.5P.
- **Colour:** Submit proposals.
- **Fire resistance:** Submit relevant third party certified BS 476-20 test results.
- **Execution:**
  - 45-55-75/610 Suitability of joints for sealant application type B;
  - 45-55-75/620 Joint preparation for sealant application type B;
  - 45-55-75/630 Applying joint sealants type B.

### **Custom made products**

#### **25-50-20/505 Prototypes or mock-ups**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Requirement:** Fabricate doorset including all components required to complete installation.
- **Purpose:** Obtain approval of appearance and quality.
- **Timing:** Before proceeding to manufacturer.

### **Execution**

#### **25-50-20/605 Installation control samples**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Samples:** Complete doorset including any architrave, sealant and ironmongery.
- **Purpose:** For use as an installation reference sample.

- **Locations:** To be agreed with the Architect.
- **Features to be included:** All components required to complete the installation
- **Timing:** Construct during preliminary installation in an approved location. Obtain approval of appearance before proceeding.

#### **25-50-20/610 Preconstruction survey**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Procedure:** Before starting work on designated items, take the site dimensions, record them on shop drawings and use them to ensure accurate fabrication.
- **Primary support structure:** Survey sufficiently to verify that the required accuracy and security of erection can be achieved.
- **Timing:** Before fabrication.

#### **25-50-20/640 Fixing of wood frames**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Method:** Plugged, screwed and pelleted.
- **Spacing of fixings (frames not predrilled) (maximum):** 150 mm from ends of each jamb and at 600 mm centres.

#### **25-50-20/641 Fixing of Architraves**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Method:** Pinned and glued architraves with extension linings with fixing holes polished out.

#### **25-50-20/655 Fixing hardware type A**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Holes for components:** No larger than required for satisfactory fit and operation.
- **Adjacent surfaces:** Do not damage.
- **Integrity of the assembly, as established by testing:** Do not compromise.
- **Cutting:** Cut accurately.
- **Clearances (maximum):** 8 mm, unless protected by intumescent paste or similar.
- **Hinges:**
  - **Primary hinge positions:** With centre lines 250 mm from top and bottom of door leaf.
  - **Third hinge position:** On centre line of door leaf. With centre line 250 mm below centre line of top hinge.

### 25-50-20/680 Frame sealant joints

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Application:** Prepare joints. Form triangular fillets finished to a flat or slightly convex profile.

### 25-50-20/685 Timing of fixing of doorsets

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

### 25-50-20/690 Building-in permissions

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **General:** Not permitted unless indicated on drawings.
- **Where permitted:**
  - **Preparation:** Remove horns and provide support.
  - **Fixing cramps:** Fully bed in mortar or affix to subframe or reveal structure.

### 25-50-20/695 Protection of components

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

### 45-25-28/605 Moisture content of wood products

**Shared by:** 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** To BS EN 942.
- **Moisture content on delivery:**
  - 13–19% for external joinery.
  - 12–16% for unheated buildings.



9–13% for buildings with heating providing room temperatures in the range 12–21°C.  
6–10% for buildings with heating providing room temperatures in excess of 21°C.

#### **45-25-28/630 Installing hardware**

**Shared by:** 45-25-28/344 External metal doorsets type B; type C and type D; 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; 45-25-28/366 External sliding door and partition sets type A; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** In accordance with third party certification for doors, door assembly or doorsets.
- **Submissions:** Evidence of compliance with certification.

#### **45-25-28/640 Workmanship in joinery**

**Shared by:** 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** To BS 1186-2.

#### **45-55-75/610 Suitability of joints for sealant application type B**

- **Joint dimensions:** Within limits specified for the sealant.
- **Substrate quality:** Surfaces regular, undamaged and stable.
- **Joints not fit to receive sealant:** Submit proposals for rectification.

#### **45-55-75/620 Joint preparation for sealant application type B**

- **Surfaces to which sealant must adhere:** Remove temporary coatings, tapes, loosely adhering material, dust, oil, grease, surface water and contaminants that may affect bond.
- **Cleaning:** Use materials and methods recommended by sealant manufacturer.
- **Vulnerable surfaces adjacent to joints:** Mask and do not stain or smear with primer or sealant.

#### **45-55-75/630 Applying joint sealants type B**

- **Substrate:** As recommended by sealant manufacturer.
- **Environmental conditions:** Do not dry or raise temperature of joints by heating.
- **Sealant application:** Completely and neatly fill joints. Provide firm adhesion to substrates.
- **Sealant profiles:**
  - **Butt and lap joints:** Slightly concave.
  - **Fillet joints:** Slightly convex.
- **Protection:** Do not contaminate or damage finished joints.

### **System completion**

#### **25-50-20/810 Documentation relating to doors, door assemblies and doorsets**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Fire safety information:**  
Location of every fire door in the building, the fire door certificate relevant to the installed door, fire safety strategy, maintenance information for each component, frequency of inspection and maintenance depending on expected usage of the door.



- **Fire performance evidence:**

Provide third party certification of product conformity with the specified fire performance for each door or doorset supplied. Include identifier schedule or similar to allow individual doors to be located;

Test evidence must be in the name of the door or doorset manufacturer;

All wood doors should be plugged to BM TRADA Q Mark requirements and/ or any CERTIFIRE metal foil labels where applicable.

- **Smoke performance:**

Provide third party certification of product conformity with the specified smoke performance for each door or doorset supplied. Include identifier schedule or similar to allow individual doors to be located. Test evidence must be in the name of the door or doorset manufacturer.

- **Acoustic performance evidence:**

Provide third party certification of product conformity for specified acoustic performance for sound attenuating door or doorset supplied.

Ω End of system

# 25-50-20/120 Doorset system (Internal) - type DT-108

## System outline

### 25-50-20/120 Doorset system (Internal) type DT-108

- **Location:** Apartments; study
- **System performance:**
  - 25-50-20/205 Design submittals type A;
  - 25-50-20/240 Acoustic performance;
  - 25-50-20/290 Compliance with performance requirements type A;
  - 25-50-20/295 Coordination of interfaces.
- **Doorset:**
  - **Type:** 45-25-28/366 Sliding door and partition sets type Internal
- **System accessories:** 45-55-75/320 Acrylic construction joint sealants.
- **Samples required:** 25-50-20/505 Prototypes or mock-ups.
- **Execution:**
  - 25-50-20/605 Installation control samples;
  - 25-50-20/610 Preconstruction survey;
  - 25-50-20/640 Fixing of wood frames;
  - 25-50-20/655 Fixing hardware type A;
  - 25-50-20/680 Frame sealant joints;
  - 25-50-20/685 Timing of fixing of doorsets;
  - 25-50-20/690 Building-in permissions;
  - 25-50-20/695 Protection of components;
  - 25-50-20/641 Fixing of Architraves;
- **System completion:** 25-50-20/810 Documentation relating to doors, door assemblies and doorsets.

## System performance

### 25-50-20/205 Design submittals type A

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Design submittals:** Typical plan, elevational and section drawings at suitable scales.
- **Validation submittals:** Test certification for doors/ assemblies to show proposals for meeting performance requirements.
- **Format:** Electronic and paper format

### 25-50-20/240 Acoustic performance

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Performance:** Refer to project acoustic strategy and Architects drawings/ door schedule for requirements.

#### **25-50-20/290 Compliance with performance requirements type A**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

#### **25-50-20/295 Coordination of interfaces**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Requirement:** Refer to standard door drawings, frame and leaf fixing details. Coordinate with partition construction.

### **Products**

#### **45-25-28/366 Sliding door and partition sets type Internal**

- **Third party accreditation:** Third party accredited by a UKAS approved/ recognised body.
- **Performance:** Internal.
- **Arrangement:** Single leaf top hung.
- **Door leaves:**
  - **Thickness:** Refer to Architects drawings and door schedule.
  - **Core:** Solid core.
  - **Facings:** Paper veneered.
  - **Lippings:** 8mm hardwood.
  - **Finish:** Primed for site painting.
- **Operation:** Manual.
- **Hardware:** Refer to ironmongery schedule and specification.
- **Accessories:** Submit proposals.
- **Execution:** 45-25-28/605 Moisture content of wood products;  
45-25-28/630 Installing hardware;  
and 45-25-28/640 Workmanship in joinery.

#### **45-55-75/320 Acrylic construction joint sealants**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 35-05-50/150 Minor joinery system (Window Boards) type TRM-02.

- **Manufacturer:** Submit proposals.
- **Standard:** To BS EN ISO 11600.
- **Third party certification:** Third party accredited by UKAS approved or recognized body.
- **Sealant type:** Mastic.

- **Class:** F-12.5P.
- **Colour:** Submit proposals.
- **Fire resistance:** Submit relevant third party certified BS 476-20 test results.
- **Execution:**  
45-55-75/610 Suitability of joints for sealant application type B;  
45-55-75/620 Joint preparation for sealant application type B;  
45-55-75/630 Applying joint sealants type B.

## Custom made products

### 25-50-20/505 Prototypes or mock-ups

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Requirement:** Fabricate doorset including all components required to complete installation.
- **Purpose:** Obtain approval of appearance and quality.
- **Timing:** Before proceeding to manufacturer.

## Execution

### 25-50-20/605 Installation control samples

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Samples:** Complete doorset including any architrave, sealant and ironmongery.
- **Purpose:** For use as an installation reference sample.
- **Locations:** To be agreed with the Architect.
- **Features to be included:** All components required to complete the installation
- **Timing:** Construct during preliminary installation in an approved location. Obtain approval of appearance before proceeding.

### 25-50-20/610 Preconstruction survey

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Procedure:** Before starting work on designated items, take the site dimensions, record them on shop drawings and use them to ensure accurate fabrication.
- **Primary support structure:** Survey sufficiently to verify that the required accuracy and security of erection can be achieved.
- **Timing:** Before fabrication.

### 25-50-20/640 Fixing of wood frames

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Method:** Plugged, screwed and pelleted.
- **Spacing of fixings (frames not predrilled) (maximum):** 150 mm from ends of each jamb and at 600 mm centres.

### 25-50-20/641 Fixing of Architraves

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Method:** Pinned and glued architraves with extension linings with fixing holes polished out.

### 25-50-20/655 Fixing hardware type A

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Holes for components:** No larger than required for satisfactory fit and operation.
- **Adjacent surfaces:** Do not damage.
- **Integrity of the assembly, as established by testing:** Do not compromise.
- **Cutting:** Cut accurately.
- **Clearances (maximum):** 8 mm, unless protected by intumescent paste or similar.
- **Hinges:**
  - **Primary hinge positions:** With centre lines 250 mm from top and bottom of door leaf.
  - **Third hinge position:** On centre line of door leaf. With centre line 250 mm below centre line of top hinge.

### 25-50-20/680 Frame sealant joints

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Application:** Prepare joints. Form triangular fillets finished to a flat or slightly convex profile.

### 25-50-20/685 Timing of fixing of doorsets

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

#### 25-50-20/690 Building-in permissions

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **General:** Not permitted unless indicated on drawings.
- **Where permitted:**
  - **Preparation:** Remove horns and provide support.
  - **Fixing cramps:** Fully bed in mortar or affix to subframe or reveal structure.

#### 25-50-20/695 Protection of components

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

#### 45-25-28/605 Moisture content of wood products

**Shared by:** 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** To BS EN 942.
- **Moisture content on delivery:**
  - 13–19% for external joinery.
  - 12–16% for unheated buildings.
  - 9–13% for buildings with heating providing room temperatures in the range 12–21°C.
  - 6–10% for buildings with heating providing room temperatures in excess of 21°C.

#### 45-25-28/630 Installing hardware

**Shared by:** 45-25-28/344 External metal doorsets type B; type C and type D; 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; 45-25-28/366 External sliding door and partition sets type A; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** In accordance with third party certification for doors, door assembly or doorsets.
- **Submissions:** Evidence of compliance with certification.

#### 45-25-28/640 Workmanship in joinery

**Shared by:** 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** To BS 1186-2.

#### 45-55-75/610 Suitability of joints for sealant application type B

- **Joint dimensions:** Within limits specified for the sealant.
- **Substrate quality:** Surfaces regular, undamaged and stable.

- **Joints not fit to receive sealant:** Submit proposals for rectification.

#### 45-55-75/620 Joint preparation for sealant application type B

- **Surfaces to which sealant must adhere:** Remove temporary coatings, tapes, loosely adhering material, dust, oil, grease, surface water and contaminants that may affect bond.
- **Cleaning:** Use materials and methods recommended by sealant manufacturer.
- **Vulnerable surfaces adjacent to joints:** Mask and do not stain or smear with primer or sealant.

#### 45-55-75/630 Applying joint sealants type B

- **Substrate:** As recommended by sealant manufacturer.
- **Environmental conditions:** Do not dry or raise temperature of joints by heating.
- **Sealant application:** Completely and neatly fill joints. Provide firm adhesion to substrates.
- **Sealant profiles:**
  - **Butt and lap joints:** Slightly concave.
  - **Fillet joints:** Slightly convex.
- **Protection:** Do not contaminate or damage finished joints.

### System completion

#### 25-50-20/810 Documentation relating to doors, door assemblies and doorsets

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Fire safety information:**  
Location of every fire door in the building, the fire door certificate relevant to the installed door, fire safety strategy, maintenance information for each component, frequency of inspection and maintenance depending on expected usage of the door.
- **Fire performance evidence:**  
Provide third party certification of product conformity with the specified fire performance for each door or doorset supplied. Include identifier schedule or similar to allow individual doors to be located;  
Test evidence must be in the name of the door or doorset manufacturer;  
All wood doors should be plugged to BM TRADA Q Mark requirements and/ or any CERTIFIRE metal foil labels where applicable.
- **Smoke performance:**  
Provide third party certification of product conformity with the specified smoke performance for each door or doorset supplied. Include identifier schedule or similar to allow individual doors to be located. Test evidence must be in the name of the door or doorset manufacturer.
- **Acoustic performance evidence:**  
Provide third party certification of product conformity for specified acoustic performance for sound attenuating door or doorset supplied.

Ω End of system



# 25-50-20/120 Doorset system (Internal) - type DT-301, DT-308

## System outline

### 25-50-20/120 Doorset system (Internal) type DT-301, DT-308

- **Location:** Common areas.
- **System performance:**
  - 25-50-20/205 Design submittals type A;
  - 25-50-20/240 Acoustic performance;
  - 25-50-20/290 Compliance with performance requirements type A;
  - 25-50-20/295 Coordination of interfaces;
  - 25-50-20/216 Fire performance requirements;
- **Doorset:**
  - **Type:** 45-25-28/348 Wood doorsets type D
- **System accessories:** 45-55-75/320 Acrylic construction joint sealants.
- **Samples required:** 25-50-20/505 Prototypes or mock-ups.
- **Execution:**
  - 25-50-20/605 Installation control samples;
  - 25-50-20/610 Preconstruction survey;
  - 25-50-20/640 Fixing of wood frames;
  - 25-50-20/645 Installing fire resisting and smoke control doorsets, door assemblies or doors;
  - 25-50-20/655 Fixing hardware type A;
  - 25-50-20/680 Frame sealant joints;
  - 25-50-20/685 Timing of fixing of doorsets;
  - 25-50-20/690 Building-in permissions;
  - 25-50-20/695 Protection of components;
  - 25-50-20/641 Fixing of Architraves;
- **System completion:** 25-50-20/810 Documentation relating to doors, door assemblies and doorsets.

## System performance

### 25-50-20/205 Design submittals type A

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Design submittals:** Typical plan, elevational and section drawings at suitable scales.
- **Validation submittals:** Test certification for doors/ assemblies to show proposals for meeting performance requirements.
- **Format:** Electronic and paper format



### 25-50-20/216 Fire performance requirements

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-301, DT-308; type DT-302; type DT-303; type DT-305 and type DT-306, DT-307.

- **Requirement:** Refer to project fire strategy and Architects drawings/ door schedule for requirements.
- **Evidence of performance:**  
Provide certified evidence, in the form of a product conformity certificate, directly relevant fire test report or engineering assessment, that each door/ doorset/ assembly supplied will comply with the specified requirements for fire 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 seats.

### 25-50-20/240 Acoustic performance

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Performance:** Refer to project acoustic strategy and Architects drawings/ door schedule for requirements.

### 25-50-20/290 Compliance with performance requirements type A

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

### 25-50-20/295 Coordination of interfaces

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Requirement:** Refer to standard door drawings, frame and leaf fixing details. Coordinate with partition construction.

## Products

### 45-25-28/348 Wood doorsets type D

- **Third party accreditation:** Third party accredited by a UKAS approved/ recognised body.
- **Standard:** Internal fire rated doorset to BS 8214 and third party accredited.
- **Wood in joinery standard:** To BS EN 942.
- **Configuration:**  
Double leaf, single action;  
Single leaf, single action.
- **Doorset size:** Refer to Architects drawings and door schedule.
- **Frame:**
  - **Material:** Hardwood frame (jambs left long).

- **Species:** Poplar.
- **Perimeter seals or inserts:** Intumescent fire and smoke seals.
- **Finish:** Primed for site painting.
- **Installation fasteners:** As recommended by door manufacturer.
- **Frame accessories:** None.
- **Door leaf:**
  - **Thickness:** Refer to Architects drawings and door schedule.
  - **Core:** Submit proposals.
  - **Facings:** Paper veneered.
  - **Lippings:** 8mm hardwood.
  - **Perimeter seals:** Intumescent fire and smoke seals.
  - **Finish:** Primed for site painting.
  - **Glazing:**
    - Type:** Clear fire-resisting safety glazing in accordance with BS 6262-4.
    - Manifestation:** Not required.
  - **Beading:**
    - Type:** Submit proposals.
    - Material:** Hardwood.
    - Fixing:** Submit proposals.
  - **Door accessories:** None.
- **Planted stops:**
  - **Wood species:** Poplar.
  - **Finish:** Primed for site painting.
- **Hardware:**  
Refer to ironmongery schedule and specification.  
Hinges and flush fitting items factory fitted.
- **Architraves:**
  - **Material:** MDF architraves.
  - **Finish:** Primed for site painting.
- **Accessories:** None.
- **Execution:**  
45-25-28/605 Moisture content of wood products;  
45-25-28/630 Installing hardware;  
45-25-28/640 Workmanship in joinery.

#### **45-55-75/320 Acrylic construction joint sealants**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 35-05-50/150 Minor joinery system (Window Boards) type TRM-02.

- **Manufacturer:** Submit proposals.
- **Standard:** To BS EN ISO 11600.
- **Third party certification:** Third party accredited by UKAS approved or recognized body.
- **Sealant type:** Mastic.
- **Class:** F-12.5P.
- **Colour:** Submit proposals.
- **Fire resistance:** Submit relevant third party certified BS 476-20 test results.

- **Execution:**  
45-55-75/610 Suitability of joints for sealant application type B;  
45-55-75/620 Joint preparation for sealant application type B;  
45-55-75/630 Applying joint sealants type B.

## Custom made products

### 25-50-20/505 Prototypes or mock-ups

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Requirement:** Fabricate doorset including all components required to complete installation.
- **Purpose:** Obtain approval of appearance and quality.
- **Timing:** Before proceeding to manufacturer.

## Execution

### 25-50-20/605 Installation control samples

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Samples:** Complete doorset including any architrave, sealant and ironmongery.
- **Purpose:** For use as an installation reference sample.
- **Locations:** To be agreed with the Architect.
- **Features to be included:** All components required to complete the installation
- **Timing:** Construct during preliminary installation in an approved location. Obtain approval of appearance before proceeding.

### 25-50-20/610 Preconstruction survey

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Procedure:** Before starting work on designated items, take the site dimensions, record them on shop drawings and use them to ensure accurate fabrication.
- **Primary support structure:** Survey sufficiently to verify that the required accuracy and security of erection can be achieved.
- **Timing:** Before fabrication.

### 25-50-20/640 Fixing of wood frames

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Method:** Plugged, screwed and pelleted.
- **Spacing of fixings (frames not predrilled) (maximum):** 150 mm from ends of each jamb and at 600 mm centres.

#### 25-50-20/641 Fixing of Architraves

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Method:** Pinned and glued architraves with extension linings with fixing holes polished out.

#### 25-50-20/645 Installing fire resisting and smoke control doorsets, door assemblies or doors

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-301, DT-308; type DT-302; type DT-303; type DT-305 and type DT-306, DT-307.

- **Standard:** In accordance with BS EN 16034.
- **Installer:** A firm currently registered under a third party accredited fire door installer scheme.
- **Installation:** In accordance with instructions supplied with the product conformity certificate, test report or engineering assessment.
- **Gaps between frames and supporting construction:** Not to exceed 3 mm along the two long edges and along the top of the of the door leaf (tolerance of  $\pm 1$  mm).
- **Labelling:**  
In accordance with third party certification scheme.  
To include manufacturer's name, fire rating and traceable serial number.

#### 25-50-20/655 Fixing hardware type A

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Holes for components:** No larger than required for satisfactory fit and operation.
- **Adjacent surfaces:** Do not damage.
- **Integrity of the assembly, as established by testing:** Do not compromise.
- **Cutting:** Cut accurately.
- **Clearances (maximum):** 8 mm, unless protected by intumescent paste or similar.
- **Hinges:**
  - **Primary hinge positions:** With centre lines 250 mm from top and bottom of door leaf.
  - **Third hinge position:** On centre line of door leaf. With centre line 250 mm below centre line of top hinge.

#### 25-50-20/680 Frame sealant joints

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Application:** Prepare joints. Form triangular fillets finished to a flat or slightly convex profile.

#### 25-50-20/685 Timing of fixing of doorsets

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

#### 25-50-20/690 Building-in permissions

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **General:** Not permitted unless indicated on drawings.
- **Where permitted:**
  - **Preparation:** Remove horns and provide support.
  - **Fixing cramps:** Fully bed in mortar or affix to subframe or reveal structure.

#### 25-50-20/695 Protection of components

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

#### 45-25-28/605 Moisture content of wood products

**Shared by:** 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** To BS EN 942.
- **Moisture content on delivery:**
  - 13–19% for external joinery.
  - 12–16% for unheated buildings.
  - 9–13% for buildings with heating providing room temperatures in the range 12–21°C.
  - 6–10% for buildings with heating providing room temperatures in excess of 21°C.

#### 45-25-28/630 Installing hardware

**Shared by:** 45-25-28/344 External metal doorsets type B; type C and type D; 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; 45-25-28/366 External sliding door and partition sets type A; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** In accordance with third party certification for doors, door assembly or doorsets.
- **Submissions:** Evidence of compliance with certification.

#### **45-25-28/640 Workmanship in joinery**

**Shared by:** 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** To BS 1186-2.

#### **45-55-75/610 Suitability of joints for sealant application type B**

- **Joint dimensions:** Within limits specified for the sealant.
- **Substrate quality:** Surfaces regular, undamaged and stable.
- **Joints not fit to receive sealant:** Submit proposals for rectification.

#### **45-55-75/620 Joint preparation for sealant application type B**

- **Surfaces to which sealant must adhere:** Remove temporary coatings, tapes, loosely adhering material, dust, oil, grease, surface water and contaminants that may affect bond.
- **Cleaning:** Use materials and methods recommended by sealant manufacturer.
- **Vulnerable surfaces adjacent to joints:** Mask and do not stain or smear with primer or sealant.

#### **45-55-75/630 Applying joint sealants type B**

- **Substrate:** As recommended by sealant manufacturer.
- **Environmental conditions:** Do not dry or raise temperature of joints by heating.
- **Sealant application:** Completely and neatly fill joints. Provide firm adhesion to substrates.
- **Sealant profiles:**
  - **Butt and lap joints:** Slightly concave.
  - **Fillet joints:** Slightly convex.
- **Protection:** Do not contaminate or damage finished joints.

### **System completion**

#### **25-50-20/810 Documentation relating to doors, door assemblies and doorsets**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Fire safety information:**  
Location of every fire door in the building, the fire door certificate relevant to the installed door, fire safety strategy, maintenance information for each component, frequency of inspection and maintenance depending on expected usage of the door.
- **Fire performance evidence:**  
Provide third party certification of product conformity with the specified fire performance for each door or doorset supplied. Include identifier schedule or similar to allow individual doors to be located;  
Test evidence must be in the name of the door or doorset manufacturer;  
All wood doors should be plugged to BM TRADA Q Mark requirements and/ or any CERTIFIRE metal foil labels where applicable.
- **Smoke performance:**  
Provide third party certification of product conformity with the specified smoke performance for

each door or doorset supplied. Include identifier schedule or similar to allow individual doors to be located. Test evidence must be in the name of the door or doorset manufacturer.

- **Acoustic performance evidence:**

Provide third party certification of product conformity for specified acoustic performance for sound attenuating door or doorset supplied.

Ω End of system



# 25-50-20/120 Doorset system (Internal) - type DT-302

## System outline

### 25-50-20/120 Doorset system (Internal) type DT-302

- **Location:** Riser door (single leaf)
- **System performance:**
  - 25-50-20/205 Design submittals type A;
  - 25-50-20/240 Acoustic performance;
  - 25-50-20/290 Compliance with performance requirements type A;
  - 25-50-20/295 Coordination of interfaces;
  - 25-50-20/216 Fire performance requirements;
- **Doorset:**
  - **Type:** 45-25-28/348 Wood doorsets type E
- **System accessories:** 45-55-75/320 Acrylic construction joint sealants.
- **Samples required:** 25-50-20/505 Prototypes or mock-ups.
- **Execution:**
  - 25-50-20/605 Installation control samples;
  - 25-50-20/610 Preconstruction survey;
  - 25-50-20/640 Fixing of wood frames;
  - 25-50-20/645 Installing fire resisting and smoke control doorsets, door assemblies or doors;
  - 25-50-20/655 Fixing hardware type A;
  - 25-50-20/680 Frame sealant joints;
  - 25-50-20/685 Timing of fixing of doorsets;
  - 25-50-20/690 Building-in permissions;
  - 25-50-20/695 Protection of components;
  - 25-50-20/641 Fixing of Architraves;
- **System completion:** 25-50-20/810 Documentation relating to doors, door assemblies and doorsets.

## System performance

### 25-50-20/205 Design submittals type A

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Design submittals:** Typical plan, elevational and section drawings at suitable scales.
- **Validation submittals:** Test certification for doors/ assemblies to show proposals for meeting performance requirements.
- **Format:** Electronic and paper format

### 25-50-20/216 Fire performance requirements

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-301, DT-308; type DT-302; type DT-303; type DT-305 and type DT-306, DT-307.



- **Requirement:** Refer to project fire strategy and Architects drawings/ door schedule for requirements.
- **Evidence of performance:**  
Provide certified evidence, in the form of a product conformity certificate, directly relevant fire test report or engineering assessment, that each door/ doorset/ assembly supplied will comply with the specified requirements for fire 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 seats.

#### **25-50-20/240 Acoustic performance**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Performance:** Refer to project acoustic strategy and Architects drawings/ door schedule for requirements.

#### **25-50-20/290 Compliance with performance requirements type A**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

#### **25-50-20/295 Coordination of interfaces**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Requirement:** Refer to standard door drawings, frame and leaf fixing details. Coordinate with partition construction.

### **Products**

#### **45-25-28/348 Wood doorsets type E**

- **Third party accreditation:** Third party accredited by a UKAS approved/ recognised body.
- **Standard:** Internal fire rated doorset to BS 8214 and third party accredited.
- **Wood in joinery standard:** To BS EN 942.
- **Configuration:** Single leaf, single action.
- **Doorset size:** Refer to Architects drawings and door schedule.
- **Frame:**
  - **Material:** Hardwood frame (jambs left long).
  - **Species:** Poplar.
  - **Perimeter seals or inserts:** Intumescent fire and smoke seals.
  - **Finish:** Primed for site painting.
  - **Installation fasteners:** As recommended by door manufacturer.
- **Door leaf:**
  - **Thickness:** Refer to Architects drawings and door schedule.

- **Core:** Solid core.
- **Facings:** Paper veneered.
- **Lippings:** 8mm hardwood.
- **Perimeter seals:** Intumescent fire and smoke seals.
- **Finish:** Primed for site painting.
- **Planted stops:**
  - **Wood species:** Poplar.
  - **Finish:** Primed for site painting.
- **Hardware:**  
Refer to ironmongery schedule and specification.  
Hinges and flush fitting items factory fitted.
- **Architraves:**
  - **Material:** MDF architraves.
  - **Finish:** Primed for site painting.
- **Accessories:** None.
- **Execution:**  
45-25-28/605 Moisture content of wood products;  
45-25-28/630 Installing hardware;  
45-25-28/640 Workmanship in joinery.

#### **45-55-75/320 Acrylic construction joint sealants**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 35-05-50/150 Minor joinery system (Window Boards) type TRM-02.

- **Manufacturer:** Submit proposals.
- **Standard:** To BS EN ISO 11600.
- **Third party certification:** Third party accredited by UKAS approved or recognized body.
- **Sealant type:** Mastic.
- **Class:** F-12.5P.
- **Colour:** Submit proposals.
- **Fire resistance:** Submit relevant third party certified BS 476-20 test results.
- **Execution:**  
45-55-75/610 Suitability of joints for sealant application type B;  
45-55-75/620 Joint preparation for sealant application type B;  
45-55-75/630 Applying joint sealants type B.

### **Custom made products**

#### **25-50-20/505 Prototypes or mock-ups**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Requirement:** Fabricate doorset including all components required to complete installation.
- **Purpose:** Obtain approval of appearance and quality.
- **Timing:** Before proceeding to manufacturer.

## Execution

### 25-50-20/605 Installation control samples

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Samples:** Complete doorset including any architrave, sealant and ironmongery.
- **Purpose:** For use as an installation reference sample.
- **Locations:** To be agreed with the Architect.
- **Features to be included:** All components required to complete the installation
- **Timing:** Construct during preliminary installation in an approved location. Obtain approval of appearance before proceeding.

### 25-50-20/610 Preconstruction survey

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Procedure:** Before starting work on designated items, take the site dimensions, record them on shop drawings and use them to ensure accurate fabrication.
- **Primary support structure:** Survey sufficiently to verify that the required accuracy and security of erection can be achieved.
- **Timing:** Before fabrication.

### 25-50-20/640 Fixing of wood frames

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Method:** Plugged, screwed and pelleted.
- **Spacing of fixings (frames not predrilled) (maximum):** 150 mm from ends of each jamb and at 600 mm centres.

### 25-50-20/641 Fixing of Architraves

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Method:** Pinned and glued architraves with extension linings with fixing holes polished out.

### 25-50-20/645 Installing fire resisting and smoke control doorsets, door assemblies or doors

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-301, DT-308; type DT-302; type DT-303; type DT-305 and type DT-306, DT-307.

- **Standard:** In accordance with BS EN 16034.
- **Installer:** A firm currently registered under a third party accredited fire door installer scheme.

- **Installation:** In accordance with instructions supplied with the product conformity certificate, test report or engineering assessment.
- **Gaps between frames and supporting construction:** Not to exceed 3 mm along the two long edges and along the top of the of the door leaf (tolerance of  $\pm 1$  mm).
- **Labelling:**  
In accordance with third party certification scheme.  
To include manufacturer's name, fire rating and traceable serial number.

#### 25-50-20/655 Fixing hardware type A

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Holes for components:** No larger than required for satisfactory fit and operation.
- **Adjacent surfaces:** Do not damage.
- **Integrity of the assembly, as established by testing:** Do not compromise.
- **Cutting:** Cut accurately.
- **Clearances (maximum):** 8 mm, unless protected by intumescent paste or similar.
- **Hinges:**
  - **Primary hinge positions:** With centre lines 250 mm from top and bottom of door leaf.
  - **Third hinge position:** On centre line of door leaf. With centre line 250 mm below centre line of top hinge.

#### 25-50-20/680 Frame sealant joints

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Application:** Prepare joints. Form triangular fillets finished to a flat or slightly convex profile.

#### 25-50-20/685 Timing of fixing of doorsets

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

#### 25-50-20/690 Building-in permissions

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **General:** Not permitted unless indicated on drawings.
- **Where permitted:**
  - **Preparation:** Remove horns and provide support.
  - **Fixing cramps:** Fully bed in mortar or affix to subframe or reveal structure.

#### 25-50-20/695 Protection of components

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

#### 45-25-28/605 Moisture content of wood products

**Shared by:** 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** To BS EN 942.
- **Moisture content on delivery:**
  - 13–19% for external joinery.
  - 12–16% for unheated buildings.
  - 9–13% for buildings with heating providing room temperatures in the range 12–21°C.
  - 6–10% for buildings with heating providing room temperatures in excess of 21°C.

#### 45-25-28/630 Installing hardware

**Shared by:** 45-25-28/344 External metal doorsets type B; type C and type D; 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; 45-25-28/366 External sliding door and partition sets type A; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** In accordance with third party certification for doors, door assembly or doorsets.
- **Submissions:** Evidence of compliance with certification.

#### 45-25-28/640 Workmanship in joinery

**Shared by:** 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** To BS 1186-2.

#### 45-55-75/610 Suitability of joints for sealant application type B

- **Joint dimensions:** Within limits specified for the sealant.
- **Substrate quality:** Surfaces regular, undamaged and stable.
- **Joints not fit to receive sealant:** Submit proposals for rectification.

#### 45-55-75/620 Joint preparation for sealant application type B

- **Surfaces to which sealant must adhere:** Remove temporary coatings, tapes, loosely adhering material, dust, oil, grease, surface water and contaminants that may affect bond.
- **Cleaning:** Use materials and methods recommended by sealant manufacturer.
- **Vulnerable surfaces adjacent to joints:** Mask and do not stain or smear with primer or sealant.

#### 45-55-75/630 Applying joint sealants type B

- **Substrate:** As recommended by sealant manufacturer.
- **Environmental conditions:** Do not dry or raise temperature of joints by heating.
- **Sealant application:** Completely and neatly fill joints. Provide firm adhesion to substrates.
- **Sealant profiles:**
  - **Butt and lap joints:** Slightly concave.
  - **Fillet joints:** Slightly convex.
- **Protection:** Do not contaminate or damage finished joints.

#### System completion

##### 25-50-20/810 Documentation relating to doors, door assemblies and doorsets

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Fire safety information:**  
Location of every fire door in the building, the fire door certificate relevant to the installed door, fire safety strategy, maintenance information for each component, frequency of inspection and maintenance depending on expected usage of the door.
- **Fire performance evidence:**  
Provide third party certification of product conformity with the specified fire performance for each door or doorset supplied. Include identifier schedule or similar to allow individual doors to be located;  
Test evidence must be in the name of the door or doorset manufacturer;  
All wood doors should be plugged to BM TRADA Q Mark requirements and/ or any CERTIFIRE metal foil labels where applicable.
- **Smoke performance:**  
Provide third party certification of product conformity with the specified smoke performance for each door or doorset supplied. Include identifier schedule or similar to allow individual doors to be located. Test evidence must be in the name of the door or doorset manufacturer.
- **Acoustic performance evidence:**  
Provide third party certification of product conformity for specified acoustic performance for sound attenuating door or doorset supplied.

Ω End of system



# 25-50-20/120 Doorset system (Internal) - type DT-303

## System outline

### 25-50-20/120 Doorset system (Internal) type DT-303

- **Location:** Refuse chute room door.
- **System performance:**
  - 25-50-20/205 Design submittals type A;
  - 25-50-20/240 Acoustic performance;
  - 25-50-20/290 Compliance with performance requirements type A;
  - 25-50-20/295 Coordination of interfaces;
  - 25-50-20/216 Fire performance requirements;
- **Doorset:**
  - **Type:** 45-25-28/348 Wood doorsets type F.
- **System accessories:** 45-55-75/320 Acrylic construction joint sealants.
- **Samples required:** 25-50-20/505 Prototypes or mock-ups.
- **Execution:**
  - 25-50-20/605 Installation control samples;
  - 25-50-20/610 Preconstruction survey;
  - 25-50-20/640 Fixing of wood frames;
  - 25-50-20/645 Installing fire resisting and smoke control doorsets, door assemblies or doors;
  - 25-50-20/655 Fixing hardware type A;
  - 25-50-20/680 Frame sealant joints;
  - 25-50-20/685 Timing of fixing of doorsets;
  - 25-50-20/690 Building-in permissions;
  - 25-50-20/695 Protection of components;
  - 25-50-20/641 Fixing of Architraves;
- **System completion:** 25-50-20/810 Documentation relating to doors, door assemblies and doorsets.

## System performance

### 25-50-20/205 Design submittals type A

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Design submittals:** Typical plan, elevational and section drawings at suitable scales.
- **Validation submittals:** Test certification for doors/ assemblies to show proposals for meeting performance requirements.
- **Format:** Electronic and paper format

### 25-50-20/216 Fire performance requirements

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-301, DT-308; type DT-302; type DT-303; type DT-305 and type DT-306, DT-307.

- **Requirement:** Refer to project fire strategy and Architects drawings/ door schedule for requirements.
- **Evidence of performance:**  
Provide certified evidence, in the form of a product conformity certificate, directly relevant fire test report or engineering assessment, that each door/ doorset/ assembly supplied will comply with the specified requirements for fire 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 seats.

#### 25-50-20/240 Acoustic performance

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Performance:** Refer to project acoustic strategy and Architects drawings/ door schedule for requirements.

#### 25-50-20/290 Compliance with performance requirements type A

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

#### 25-50-20/295 Coordination of interfaces

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Requirement:** Refer to standard door drawings, frame and leaf fixing details. Coordinate with partition construction.

## Products

#### 45-25-28/348 Wood doorsets type F

- **Third party accreditation:** Third party accredited by a UKAS approved/ recognised body.
- **Standard:** Internal fire rated doorset to BS 8214 and third party accredited.
- **Wood in joinery standard:** To BS EN 942.
- **Configuration:** Single leaf, single action.
- **Doorset size:** Refer to Architects drawings and door schedule.
- **Frame:**
  - **Material:** Hardwood frame (jambs left long).
  - **Species:** Poplar.
  - **Perimeter seals or inserts:** Intumescent fire and smoke seals.
  - **Finish:** Primed for site painting.
  - **Installation fasteners:** As recommended by door manufacturer.
- **Door leaf:**
  - **Thickness:** Refer to Architects drawings and door schedule.



- **Core:** Solid core.
- **Facings:** Paper veneer.
- **Lippings:** 8mm hardwood.
- **Perimeter seals:**  
Intumescent fire and smoke seals.  
Drop smoke and acoustic seal to achieve scheduled performance of complete doorset.
- **Finish:** Primed for site painting.
- **Planted stops:**
  - **Wood species:** Poplar.
  - **Finish:** Primed for site painting.
- **Hardware:**  
Refer to ironmongery schedule and specification.  
Hinges and flush fitting items factory fitted.
- **Architraves:**
  - **Material:** MDF architraves.
  - **Finish:** Primed for site painting.
- **Accessories:** None.
- **Execution:**  
45-25-28/605 Moisture content of wood products;  
45-25-28/630 Installing hardware;  
45-25-28/640 Workmanship in joinery;

#### **45-55-75/320 Acrylic construction joint sealants**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 35-05-50/150 Minor joinery system (Window Boards) type TRM-02.

- **Manufacturer:** Submit proposals.
- **Standard:** To BS EN ISO 11600.
- **Third party certification:** Third party accredited by UKAS approved or recognized body.
- **Sealant type:** Mastic.
- **Class:** F-12.5P.
- **Colour:** Submit proposals.
- **Fire resistance:** Submit relevant third party certified BS 476-20 test results.
- **Execution:**  
45-55-75/610 Suitability of joints for sealant application type B;  
45-55-75/620 Joint preparation for sealant application type B;  
45-55-75/630 Applying joint sealants type B.

### **Custom made products**

#### **25-50-20/505 Prototypes or mock-ups**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Requirement:** Fabricate doorset including all components required to complete installation.
- **Purpose:** Obtain approval of appearance and quality.

- **Timing:** Before proceeding to manufacturer.

## Execution

### 25-50-20/605 Installation control samples

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Samples:** Complete doorset including any architrave, sealant and ironmongery.
- **Purpose:** For use as an installation reference sample.
- **Locations:** To be agreed with the Architect.
- **Features to be included:** All components required to complete the installation
- **Timing:** Construct during preliminary installation in an approved location. Obtain approval of appearance before proceeding.

### 25-50-20/610 Preconstruction survey

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Procedure:** Before starting work on designated items, take the site dimensions, record them on shop drawings and use them to ensure accurate fabrication.
- **Primary support structure:** Survey sufficiently to verify that the required accuracy and security of erection can be achieved.
- **Timing:** Before fabrication.

### 25-50-20/640 Fixing of wood frames

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Method:** Plugged, screwed and pelleted.
- **Spacing of fixings (frames not predrilled) (maximum):** 150 mm from ends of each jamb and at 600 mm centres.

### 25-50-20/641 Fixing of Architraves

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Method:** Pinned and glued architraves with extension linings with fixing holes polished out.

### 25-50-20/645 Installing fire resisting and smoke control doorsets, door assemblies or doors

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-301, DT-308; type DT-302; type DT-303; type DT-305 and type DT-306, DT-307.

- **Standard:** In accordance with BS EN 16034.

- **Installer:** A firm currently registered under a third party accredited fire door installer scheme.
- **Installation:** In accordance with instructions supplied with the product conformity certificate, test report or engineering assessment.
- **Gaps between frames and supporting construction:** Not to exceed 3 mm along the two long edges and along the top of the of the door leaf (tolerance of  $\pm 1$  mm).
- **Labelling:**  
In accordance with third party certification scheme.  
To include manufacturer's name, fire rating and traceable serial number.

#### 25-50-20/655 Fixing hardware type A

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Holes for components:** No larger than required for satisfactory fit and operation.
- **Adjacent surfaces:** Do not damage.
- **Integrity of the assembly, as established by testing:** Do not compromise.
- **Cutting:** Cut accurately.
- **Clearances (maximum):** 8 mm, unless protected by intumescent paste or similar.
- **Hinges:**
  - **Primary hinge positions:** With centre lines 250 mm from top and bottom of door leaf.
  - **Third hinge position:** On centre line of door leaf. With centre line 250 mm below centre line of top hinge.

#### 25-50-20/680 Frame sealant joints

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Application:** Prepare joints. Form triangular fillets finished to a flat or slightly convex profile.

#### 25-50-20/685 Timing of fixing of doorsets

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

#### 25-50-20/690 Building-in permissions

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16,

WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **General:** Not permitted unless indicated on drawings.
- **Where permitted:**
  - **Preparation:** Remove horns and provide support.
  - **Fixing cramps:** Fully bed in mortar or affix to subframe or reveal structure.

#### **25-50-20/695 Protection of components**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

#### **45-25-28/605 Moisture content of wood products**

**Shared by:** 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** To BS EN 942.
- **Moisture content on delivery:**
  - 13–19% for external joinery.
  - 12–16% for unheated buildings.
  - 9–13% for buildings with heating providing room temperatures in the range 12–21°C.
  - 6–10% for buildings with heating providing room temperatures in excess of 21°C.

#### **45-25-28/630 Installing hardware**

**Shared by:** 45-25-28/344 External metal doorsets type B; type C and type D; 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; 45-25-28/366 External sliding door and partition sets type A; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** In accordance with third party certification for doors, door assembly or doorsets.
- **Submissions:** Evidence of compliance with certification.

#### **45-25-28/640 Workmanship in joinery**

**Shared by:** 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** To BS 1186-2.

#### **45-55-75/610 Suitability of joints for sealant application type B**

- **Joint dimensions:** Within limits specified for the sealant.
- **Substrate quality:** Surfaces regular, undamaged and stable.
- **Joints not fit to receive sealant:** Submit proposals for rectification.

#### **45-55-75/620 Joint preparation for sealant application type B**

- **Surfaces to which sealant must adhere:** Remove temporary coatings, tapes, loosely adhering material, dust, oil, grease, surface water and contaminants that may affect bond.
- **Cleaning:** Use materials and methods recommended by sealant manufacturer.

- **Vulnerable surfaces adjacent to joints:** Mask and do not stain or smear with primer or sealant.

#### 45-55-75/630 Applying joint sealants type B

- **Substrate:** As recommended by sealant manufacturer.
- **Environmental conditions:** Do not dry or raise temperature of joints by heating.
- **Sealant application:** Completely and neatly fill joints. Provide firm adhesion to substrates.
- **Sealant profiles:**
  - **Butt and lap joints:** Slightly concave.
  - **Fillet joints:** Slightly convex.
- **Protection:** Do not contaminate or damage finished joints.

### System completion

#### 25-50-20/810 Documentation relating to doors, door assemblies and doorsets

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Fire safety information:**  
Location of every fire door in the building, the fire door certificate relevant to the installed door, fire safety strategy, maintenance information for each component, frequency of inspection and maintenance depending on expected usage of the door.
- **Fire performance evidence:**  
Provide third party certification of product conformity with the specified fire performance for each door or doorset supplied. Include identifier schedule or similar to allow individual doors to be located;  
Test evidence must be in the name of the door or doorset manufacturer;  
All wood doors should be plugged to BM TRADA Q Mark requirements and/ or any CERTIFIRE metal foil labels where applicable.
- **Smoke performance:**  
Provide third party certification of product conformity with the specified smoke performance for each door or doorset supplied. Include identifier schedule or similar to allow individual doors to be located. Test evidence must be in the name of the door or doorset manufacturer.
- **Acoustic performance evidence:**  
Provide third party certification of product conformity for specified acoustic performance for sound attenuating door or doorset supplied.

Ω End of system

# 25-50-20/120 Doorset system (Internal) - type DT-305

## System outline

### 25-50-20/120 Doorset system (Internal) type DT-305

- **Location:** To amenity area.
- **System performance:**
  - 25-50-20/205 Design submittals type A;
  - 25-50-20/240 Acoustic performance;
  - 25-50-20/290 Compliance with performance requirements type A;
  - 25-50-20/295 Coordination of interfaces;
  - 25-50-20/216 Fire performance requirements;
- **Doorset:**
  - **Type:** 45-25-28/348 Wood doorsets type G.
- **System accessories:** 45-55-75/320 Acrylic construction joint sealants.
- **Samples required:** 25-50-20/505 Prototypes or mock-ups.
- **Execution:**
  - 25-50-20/605 Installation control samples;
  - 25-50-20/610 Preconstruction survey;
  - 25-50-20/640 Fixing of wood frames;
  - 25-50-20/645 Installing fire resisting and smoke control doorsets, door assemblies or doors;
  - 25-50-20/655 Fixing hardware type A;
  - 25-50-20/680 Frame sealant joints;
  - 25-50-20/685 Timing of fixing of doorsets;
  - 25-50-20/690 Building-in permissions;
  - 25-50-20/695 Protection of components;
  - 25-50-20/641 Fixing of Architraves;
- **System completion:** 25-50-20/810 Documentation relating to doors, door assemblies and doorsets.

## System performance

### 25-50-20/205 Design submittals type A

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Design submittals:** Typical plan, elevational and section drawings at suitable scales.
- **Validation submittals:** Test certification for doors/ assemblies to show proposals for meeting performance requirements.
- **Format:** Electronic and paper format

### 25-50-20/216 Fire performance requirements

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-301, DT-308; type DT-302; type DT-303; type DT-305 and type DT-306, DT-307.



- **Requirement:** Refer to project fire strategy and Architects drawings/ door schedule for requirements.
- **Evidence of performance:**  
Provide certified evidence, in the form of a product conformity certificate, directly relevant fire test report or engineering assessment, that each door/ doorset/ assembly supplied will comply with the specified requirements for fire 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 seats.

#### **25-50-20/240 Acoustic performance**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Performance:** Refer to project acoustic strategy and Architects drawings/ door schedule for requirements.

#### **25-50-20/290 Compliance with performance requirements type A**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

#### **25-50-20/295 Coordination of interfaces**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Requirement:** Refer to standard door drawings, frame and leaf fixing details. Coordinate with partition construction.

### **Products**

#### **45-25-28/348 Wood doorsets type G**

- **Third party accreditation:** Third party accredited by a UKAS approved/ recognised body.
- **Standard:** Internal fire rated doorset to BS 8214 and third party accredited.
- **Wood in joinery standard:** To BS EN 942.
- **Configuration:** Double leaf, single action.
- **Doorset size:** Refer to Architects drawings and door schedule.
- **Frame:**
  - **Material:** Hardwood frame (jambs left long).
  - **Species:** Poplar.
  - **Perimeter seals or inserts:** Intumescent fire and smoke seals.
  - **Finish:** Primed for site painting.
  - **Installation fasteners:** As recommended by door manufacturer.
- **Door leaf:**
  - **Thickness:** Refer to Architects drawings and door schedule.



- **Core:** Solid core.
- **Facings:** Paper veneer.
- **Lippings:** 8mm hardwood.
- **Perimeter seals:** Intumescent fire and smoke seals.
- **Finish:** Primed for site painting.
- **Planted stops:**
  - **Wood species:** Poplar.
  - **Finish:** Primed for site painting.
- **Hardware:**  
refer to ironmongery schedule and specification.  
Hinges and flush fitting items factory fitted.
- **Architraves:**
  - **Material:** MDF architraves.
  - **Finish:** Primed for site painting.
- **Accessories:** None.
- **Execution:**  
45-25-28/605 Moisture content of wood products;  
45-25-28/630 Installing hardware;  
45-25-28/640 Workmanship in joinery;

#### **45-55-75/320 Acrylic construction joint sealants**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 35-05-50/150 Minor joinery system (Window Boards) type TRM-02.

- **Manufacturer:** Submit proposals.
- **Standard:** To BS EN ISO 11600.
- **Third party certification:** Third party accredited by UKAS approved or recognized body.
- **Sealant type:** Mastic.
- **Class:** F-12.5P.
- **Colour:** Submit proposals.
- **Fire resistance:** Submit relevant third party certified BS 476-20 test results.
- **Execution:**  
45-55-75/610 Suitability of joints for sealant application type B;  
45-55-75/620 Joint preparation for sealant application type B;  
45-55-75/630 Applying joint sealants type B.

### **Custom made products**

#### **25-50-20/505 Prototypes or mock-ups**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Requirement:** Fabricate doorset including all components required to complete installation.
- **Purpose:** Obtain approval of appearance and quality.
- **Timing:** Before proceeding to manufacturer.

## Execution

### 25-50-20/605 Installation control samples

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Samples:** Complete doorset including any architrave, sealant and ironmongery.
- **Purpose:** For use as an installation reference sample.
- **Locations:** To be agreed with the Architect.
- **Features to be included:** All components required to complete the installation
- **Timing:** Construct during preliminary installation in an approved location. Obtain approval of appearance before proceeding.

### 25-50-20/610 Preconstruction survey

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Procedure:** Before starting work on designated items, take the site dimensions, record them on shop drawings and use them to ensure accurate fabrication.
- **Primary support structure:** Survey sufficiently to verify that the required accuracy and security of erection can be achieved.
- **Timing:** Before fabrication.

### 25-50-20/640 Fixing of wood frames

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Method:** Plugged, screwed and pelleted.
- **Spacing of fixings (frames not predrilled) (maximum):** 150 mm from ends of each jamb and at 600 mm centres.

### 25-50-20/641 Fixing of Architraves

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Method:** Pinned and glued architraves with extension linings with fixing holes polished out.

### 25-50-20/645 Installing fire resisting and smoke control doorsets, door assemblies or doors

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-301, DT-308; type DT-302; type DT-303; type DT-305 and type DT-306, DT-307.

- **Standard:** In accordance with BS EN 16034.
- **Installer:** A firm currently registered under a third party accredited fire door installer scheme.

- **Installation:** In accordance with instructions supplied with the product conformity certificate, test report or engineering assessment.
- **Gaps between frames and supporting construction:** Not to exceed 3 mm along the two long edges and along the top of the of the door leaf (tolerance of  $\pm 1$  mm).
- **Labelling:**  
In accordance with third party certification scheme.  
To include manufacturer's name, fire rating and traceable serial number.

#### 25-50-20/655 Fixing hardware type A

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Holes for components:** No larger than required for satisfactory fit and operation.
- **Adjacent surfaces:** Do not damage.
- **Integrity of the assembly, as established by testing:** Do not compromise.
- **Cutting:** Cut accurately.
- **Clearances (maximum):** 8 mm, unless protected by intumescent paste or similar.
- **Hinges:**
  - **Primary hinge positions:** With centre lines 250 mm from top and bottom of door leaf.
  - **Third hinge position:** On centre line of door leaf. With centre line 250 mm below centre line of top hinge.

#### 25-50-20/680 Frame sealant joints

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Application:** Prepare joints. Form triangular fillets finished to a flat or slightly convex profile.

#### 25-50-20/685 Timing of fixing of doorsets

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

#### 25-50-20/690 Building-in permissions

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **General:** Not permitted unless indicated on drawings.
- **Where permitted:**
  - **Preparation:** Remove horns and provide support.
  - **Fixing cramps:** Fully bed in mortar or affix to subframe or reveal structure.

#### 25-50-20/695 Protection of components

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

#### 45-25-28/605 Moisture content of wood products

**Shared by:** 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** To BS EN 942.
- **Moisture content on delivery:**
  - 13–19% for external joinery.
  - 12–16% for unheated buildings.
  - 9–13% for buildings with heating providing room temperatures in the range 12–21°C.
  - 6–10% for buildings with heating providing room temperatures in excess of 21°C.

#### 45-25-28/630 Installing hardware

**Shared by:** 45-25-28/344 External metal doorsets type B; type C and type D; 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; 45-25-28/366 External sliding door and partition sets type A; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** In accordance with third party certification for doors, door assembly or doorsets.
- **Submissions:** Evidence of compliance with certification.

#### 45-25-28/640 Workmanship in joinery

**Shared by:** 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** To BS 1186-2.

#### 45-55-75/610 Suitability of joints for sealant application type B

- **Joint dimensions:** Within limits specified for the sealant.
- **Substrate quality:** Surfaces regular, undamaged and stable.
- **Joints not fit to receive sealant:** Submit proposals for rectification.

#### 45-55-75/620 Joint preparation for sealant application type B

- **Surfaces to which sealant must adhere:** Remove temporary coatings, tapes, loosely adhering material, dust, oil, grease, surface water and contaminants that may affect bond.
- **Cleaning:** Use materials and methods recommended by sealant manufacturer.
- **Vulnerable surfaces adjacent to joints:** Mask and do not stain or smear with primer or sealant.

#### 45-55-75/630 Applying joint sealants type B

- **Substrate:** As recommended by sealant manufacturer.
- **Environmental conditions:** Do not dry or raise temperature of joints by heating.
- **Sealant application:** Completely and neatly fill joints. Provide firm adhesion to substrates.
- **Sealant profiles:**
  - **Butt and lap joints:** Slightly concave.
  - **Fillet joints:** Slightly convex.
- **Protection:** Do not contaminate or damage finished joints.

#### System completion

##### 25-50-20/810 Documentation relating to doors, door assemblies and doorsets

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Fire safety information:**  
Location of every fire door in the building, the fire door certificate relevant to the installed door, fire safety strategy, maintenance information for each component, frequency of inspection and maintenance depending on expected usage of the door.
- **Fire performance evidence:**  
Provide third party certification of product conformity with the specified fire performance for each door or doorset supplied. Include identifier schedule or similar to allow individual doors to be located;  
Test evidence must be in the name of the door or doorset manufacturer;  
All wood doors should be plugged to BM TRADA Q Mark requirements and/ or any CERTIFIRE metal foil labels where applicable.
- **Smoke performance:**  
Provide third party certification of product conformity with the specified smoke performance for each door or doorset supplied. Include identifier schedule or similar to allow individual doors to be located. Test evidence must be in the name of the door or doorset manufacturer.
- **Acoustic performance evidence:**  
Provide third party certification of product conformity for specified acoustic performance for sound attenuating door or doorset supplied.

Ω End of system

# 25-50-20/120 Doorset system (Internal) - type DT-306, DT-307

## System outline

### 25-50-20/120 Doorset system (Internal) type DT-306, DT-307

- **Location:** Hotel riser cupboard, Utilities riser cupboard
- **System performance:**
  - 25-50-20/205 Design submittals type A;
  - 25-50-20/240 Acoustic performance;
  - 25-50-20/290 Compliance with performance requirements type A;
  - 25-50-20/295 Coordination of interfaces;
  - 25-50-20/216 Fire performance requirements;
- **Doorset:**
  - **Type:** 45-25-28/348 Wood doorsets type H.
- **System accessories:** 45-55-75/320 Acrylic construction joint sealants.
- **Samples required:** 25-50-20/505 Prototypes or mock-ups.
- **Execution:**
  - 25-50-20/605 Installation control samples;
  - 25-50-20/610 Preconstruction survey;
  - 25-50-20/640 Fixing of wood frames;
  - 25-50-20/645 Installing fire resisting and smoke control doorsets, door assemblies or doors;
  - 25-50-20/655 Fixing hardware type A;
  - 25-50-20/680 Frame sealant joints;
  - 25-50-20/685 Timing of fixing of doorsets;
  - 25-50-20/690 Building-in permissions;
  - 25-50-20/695 Protection of components;
  - 25-50-20/641 Fixing of Architraves;
- **System completion:** 25-50-20/810 Documentation relating to doors, door assemblies and doorsets.

## System performance

### 25-50-20/205 Design submittals type A

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Design submittals:** Typical plan, elevational and section drawings at suitable scales.
- **Validation submittals:** Test certification for doors/ assemblies to show proposals for meeting performance requirements.
- **Format:** Electronic and paper format

### 25-50-20/216 Fire performance requirements

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-301, DT-308; type DT-302; type DT-303; type DT-305 and type DT-306, DT-307.

- **Requirement:** Refer to project fire strategy and Architects drawings/ door schedule for requirements.
- **Evidence of performance:**  
Provide certified evidence, in the form of a product conformity certificate, directly relevant fire test report or engineering assessment, that each door/ doorset/ assembly supplied will comply with the specified requirements for fire 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 seats.

### 25-50-20/240 Acoustic performance

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Performance:** Refer to project acoustic strategy and Architects drawings/ door schedule for requirements.

### 25-50-20/290 Compliance with performance requirements type A

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

### 25-50-20/295 Coordination of interfaces

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Requirement:** Refer to standard door drawings, frame and leaf fixing details. Coordinate with partition construction.

## Products

### 45-25-28/348 Wood doorsets type H

- **Third party accreditation:** Third party accredited by a UKAS approved/ recognised body.
- **Standard:** Internal fire rated doorset to BS 8214 and third party accredited.
- **Wood in joinery standard:** To BS EN 942.
- **Configuration:** Double leaf, single action.
- **Doorset size:** Refer to Architects drawings and door schedule.
- **Frame:**
  - **Material:** Hardwood frame (jambs left long).
  - **Species:** Poplar.
  - **Perimeter seals or inserts:** Intumescent fire and smoke seals.



- **Finish:** Primed for site painting.
- **Installation fasteners:** As recommended by door manufacturer.
- **Door leaf:**
  - **Thickness:** Refer to Architects drawings and door schedule.
  - **Core:** Solid core.
  - **Facings:** Paper veneer.
  - **Lippings:** 8mm hardwood.
  - **Perimeter seals:**  
Intumescent fire and smoke seals.  
Drop smoke and acoustic seal to achieve scheduled performance of complete doorset.
  - **Finish:** Primed for site painting.
  - **Door accessories:** None.
- **Planted stops:**
  - **Wood species:** Poplar.
  - **Finish:** Primed for site painting.
- **Hardware:**  
Refer to ironmongery schedule and specification.  
Hinges and flush fitting items factory fitted.
- **Architraves:**
  - **Material:** MDF architraves.
  - **Finish:** Primed for site painting.
- **Accessories:** None.
- **Execution:**  
45-25-28/605 Moisture content of wood products;  
45-25-28/630 Installing hardware;  
45-25-28/640 Workmanship in joinery;

#### **45-55-75/320 Acrylic construction joint sealants**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 35-05-50/150 Minor joinery system (Window Boards) type TRM-02.

- **Manufacturer:** Submit proposals.
- **Standard:** To BS EN ISO 11600.
- **Third party certification:** Third party accredited by UKAS approved or recognized body.
- **Sealant type:** Mastic.
- **Class:** F-12.5P.
- **Colour:** Submit proposals.
- **Fire resistance:** Submit relevant third party certified BS 476-20 test results.
- **Execution:**  
45-55-75/610 Suitability of joints for sealant application type B;  
45-55-75/620 Joint preparation for sealant application type B;  
45-55-75/630 Applying joint sealants type B.

## Custom made products

### 25-50-20/505 Prototypes or mock-ups

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Requirement:** Fabricate doorset including all components required to complete installation.
- **Purpose:** Obtain approval of appearance and quality.
- **Timing:** Before proceeding to manufacturer.

## Execution

### 25-50-20/605 Installation control samples

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Samples:** Complete doorset including any architrave, sealant and ironmongery.
- **Purpose:** For use as an installation reference sample.
- **Locations:** To be agreed with the Architect.
- **Features to be included:** All components required to complete the installation
- **Timing:** Construct during preliminary installation in an approved location. Obtain approval of appearance before proceeding.

### 25-50-20/610 Preconstruction survey

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Procedure:** Before starting work on designated items, take the site dimensions, record them on shop drawings and use them to ensure accurate fabrication.
- **Primary support structure:** Survey sufficiently to verify that the required accuracy and security of erection can be achieved.
- **Timing:** Before fabrication.

### 25-50-20/640 Fixing of wood frames

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Method:** Plugged, screwed and pelleted.
- **Spacing of fixings (frames not predrilled) (maximum):** 150 mm from ends of each jamb and at 600 mm centres.

### 25-50-20/641 Fixing of Architraves

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Method:** Pinned and glued architraves with extension linings with fixing holes polished out.

### 25-50-20/645 Installing fire resisting and smoke control doorsets, door assemblies or doors

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-301, DT-308; type DT-302; type DT-303; type DT-305 and type DT-306, DT-307.

- **Standard:** In accordance with BS EN 16034.
- **Installer:** A firm currently registered under a third party accredited fire door installer scheme.
- **Installation:** In accordance with instructions supplied with the product conformity certificate, test report or engineering assessment.
- **Gaps between frames and supporting construction:** Not to exceed 3 mm along the two long edges and along the top of the of the door leaf (tolerance of  $\pm 1$  mm).
- **Labelling:**  
In accordance with third party certification scheme.  
To include manufacturer's name, fire rating and traceable serial number.

### 25-50-20/655 Fixing hardware type A

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Holes for components:** No larger than required for satisfactory fit and operation.
- **Adjacent surfaces:** Do not damage.
- **Integrity of the assembly, as established by testing:** Do not compromise.
- **Cutting:** Cut accurately.
- **Clearances (maximum):** 8 mm, unless protected by intumescent paste or similar.
- **Hinges:**
  - **Primary hinge positions:** With centre lines 250 mm from top and bottom of door leaf.
  - **Third hinge position:** On centre line of door leaf. With centre line 250 mm below centre line of top hinge.

### 25-50-20/680 Frame sealant joints

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Application:** Prepare joints. Form triangular fillets finished to a flat or slightly convex profile.

### 25-50-20/685 Timing of fixing of doorsets

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset

system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

#### **25-50-20/690 Building-in permissions**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **General:** Not permitted unless indicated on drawings.
- **Where permitted:**
  - **Preparation:** Remove horns and provide support.
  - **Fixing cramps:** Fully bed in mortar or affix to subframe or reveal structure.

#### **25-50-20/695 Protection of components**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

#### **45-25-28/605 Moisture content of wood products**

**Shared by:** 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** To BS EN 942.
- **Moisture content on delivery:**
  - 13–19% for external joinery.
  - 12–16% for unheated buildings.
  - 9–13% for buildings with heating providing room temperatures in the range 12–21°C.
  - 6–10% for buildings with heating providing room temperatures in excess of 21°C.

#### **45-25-28/630 Installing hardware**

**Shared by:** 45-25-28/344 External metal doorsets type B; type C and type D; 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; 45-25-28/366 External sliding door and partition sets type A; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** In accordance with third party certification for doors, door assembly or doorsets.
- **Submissions:** Evidence of compliance with certification.

#### **45-25-28/640 Workmanship in joinery**

**Shared by:** 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** To BS 1186-2.

#### 45-55-75/610 Suitability of joints for sealant application type B

- **Joint dimensions:** Within limits specified for the sealant.
- **Substrate quality:** Surfaces regular, undamaged and stable.
- **Joints not fit to receive sealant:** Submit proposals for rectification.

#### 45-55-75/620 Joint preparation for sealant application type B

- **Surfaces to which sealant must adhere:** Remove temporary coatings, tapes, loosely adhering material, dust, oil, grease, surface water and contaminants that may affect bond.
- **Cleaning:** Use materials and methods recommended by sealant manufacturer.
- **Vulnerable surfaces adjacent to joints:** Mask and do not stain or smear with primer or sealant.

#### 45-55-75/630 Applying joint sealants type B

- **Substrate:** As recommended by sealant manufacturer.
- **Environmental conditions:** Do not dry or raise temperature of joints by heating.
- **Sealant application:** Completely and neatly fill joints. Provide firm adhesion to substrates.
- **Sealant profiles:**
  - **Butt and lap joints:** Slightly concave.
  - **Fillet joints:** Slightly convex.
- **Protection:** Do not contaminate or damage finished joints.

### System completion

#### 25-50-20/810 Documentation relating to doors, door assemblies and doorsets

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Fire safety information:**  
Location of every fire door in the building, the fire door certificate relevant to the installed door, fire safety strategy, maintenance information for each component, frequency of inspection and maintenance depending on expected usage of the door.
- **Fire performance evidence:**  
Provide third party certification of product conformity with the specified fire performance for each door or doorset supplied. Include identifier schedule or similar to allow individual doors to be located;  
Test evidence must be in the name of the door or doorset manufacturer;  
All wood doors should be plugged to BM TRADA Q Mark requirements and/ or any CERTIFIRE metal foil labels where applicable.
- **Smoke performance:**  
Provide third party certification of product conformity with the specified smoke performance for each door or doorset supplied. Include identifier schedule or similar to allow individual doors to be located. Test evidence must be in the name of the door or doorset manufacturer.

- **Acoustic performance evidence:**

Provide third party certification of product conformity for specified acoustic performance for sound attenuating door or doorset supplied.

Ω End of system

# 25-50-20/120 Doorset system (Internal) - type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206

## System outline

### 25-50-20/120 Doorset system (Internal) type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206

- **Location:** Apartments: Wardrobe doors
- **System performance:**
  - 25-50-20/205 Design submittals type A;
  - 25-50-20/240 Acoustic performance;
  - 25-50-20/290 Compliance with performance requirements type A;
  - 25-50-20/295 Coordination of interfaces.
- **Doorset:**
  - **Type:** 45-25-28/348 Wood doorsets type C
- **System accessories:** 45-55-75/320 Acrylic construction joint sealants.
- **Samples required:** 25-50-20/505 Prototypes or mock-ups.
- **Execution:**
  - 25-50-20/605 Installation control samples;
  - 25-50-20/610 Preconstruction survey;
  - 25-50-20/640 Fixing of wood frames;
  - 25-50-20/655 Fixing hardware type A;
  - 25-50-20/680 Frame sealant joints;
  - 25-50-20/685 Timing of fixing of doorsets;
  - 25-50-20/690 Building-in permissions;
  - 25-50-20/695 Protection of components;
  - 25-50-20/641 Fixing of Architraves;
- **System completion:** 25-50-20/810 Documentation relating to doors, door assemblies and doorsets.

## System performance

### 25-50-20/205 Design submittals type A

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Design submittals:** Typical plan, elevational and section drawings at suitable scales.
- **Validation submittals:** Test certification for doors/ assemblies to show proposals for meeting performance requirements.
- **Format:** Electronic and paper format

### 25-50-20/240 Acoustic performance

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.



- **Performance:** Refer to project acoustic strategy and Architects drawings/ door schedule for requirements.

#### **25-50-20/290 Compliance with performance requirements type A**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

#### **25-50-20/295 Coordination of interfaces**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Requirement:** Refer to standard door drawings, frame and leaf fixing details. Coordinate with partition construction.

### **Products**

#### **45-25-28/348 Wood doorsets type C**

- **Third party accreditation:** Third party accredited by a UKAS approved/ recognised body.
- **Standard:** Internal non-fire rated doorset third party accredited.
- **Wood in joinery standard:** To BS EN 942.
- **Configuration:** Double leaf, single action and Single leaf, single action.
- **Doorset size:** Refer to Architects drawings and door schedule.
- **Frame:**
  - **Material:** MDF.
  - **Perimeter seals or inserts:** None.
  - **Finish:** Primed for site painting.
  - **Installation fasteners:** As recommended by door manufacturer.
- **Door leaf:**
  - **Thickness:** Refer to Architects drawings and door schedule.
  - **Core:** MDF:45-45-95/460 Medium density fibreboard type B
  - **Facings:** None
  - **Lippings:** None.
  - **Perimeter seals:** None.
  - **Finish:** Primed for site painting.
- **Planted stops:**
  - **Wood species:** Poplar.
  - **Finish:** Primed for site painting.
- **Hardware:**  
Refer to ironmongery schedule and specification.  
Hinges and flush fitting items factory fitted.
- **Architraves:**

- **Material:** MDF architraves.
- **Finish:** Primed for site painting.
- **Accessories:** None.
- **Execution:**
  - 45-25-28/605 Moisture content of wood products;
  - 45-25-28/630 Installing hardware;
  - 45-25-28/640 Workmanship in joinery.

#### **45-45-95/460 Medium density fibreboard type B**

- **General requirements:** 45-60-90/340 Timber procurement.
- **Standard:** To BS EN 622-5 and BS EN 13986.
- **Grade:** To BS EN 622-5, type MDF.
- **VOC emissions:** Submit proposals.
- **Formaldehyde class:** To BS EN 622-1, Class E1.
- **Edges:** Square.
- **Finish as delivered:**
  - **Worked finish:** Sanded.
- **Recycled content (minimum):** Submit proposals.
- **Execution:** 45-45-95/605 Environmental conditions for installing wood boards and wood-based panels and 45-45-95/610 Moisture content and conditioning of wood-based boards and panels.

#### **45-55-75/320 Acrylic construction joint sealants**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 35-05-50/150 Minor joinery system (Window Boards) type TRM-02.

- **Manufacturer:** Submit proposals.
- **Standard:** To BS EN ISO 11600.
- **Third party certification:** Third party accredited by UKAS approved or recognized body.
- **Sealant type:** Mastic.
- **Class:** F-12.5P.
- **Colour:** Submit proposals.
- **Fire resistance:** Submit relevant third party certified BS 476-20 test results.
- **Execution:**
  - 45-55-75/610 Suitability of joints for sealant application type B;
  - 45-55-75/620 Joint preparation for sealant application type B;
  - 45-55-75/630 Applying joint sealants type B.

#### **45-60-90/340 Timber procurement**

**Shared by:** 45-45-95/460 Medium density fibreboard type A and type B; 45-75-95/315 Medium density fibreboard (MDF) skirtings; and 45-75-95/355 Medium density fibreboard (MDF) picture rail.

- **Timber source:**
  - **General requirements:** Obtain from well managed forests and/ or plantations.
  - **Legality and sustainability:** Sustainability requirements set in UK Government timber procurement policy (UKTPP) and as outlined in the supporting Timber Procurement Advice Note (TPAN).
  - **Documentation to be submitted:** Documentary evidence (which has been or can be independently verified) regarding the provenance of timber supplied and Documentary

evidence that suppliers have adopted and are implementing a formal environmental purchasing policy for timber and wood-derived products.

- **Certification scheme:** Forest Stewardship Council (FSC).

## Custom made products

### 25-50-20/505 Prototypes or mock-ups

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Requirement:** Fabricate doorset including all components required to complete installation.
- **Purpose:** Obtain approval of appearance and quality.
- **Timing:** Before proceeding to manufacturer.

## Execution

### 25-50-20/605 Installation control samples

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Samples:** Complete doorset including any architrave, sealant and ironmongery.
- **Purpose:** For use as an installation reference sample.
- **Locations:** To be agreed with the Architect.
- **Features to be included:** All components required to complete the installation
- **Timing:** Construct during preliminary installation in an approved location. Obtain approval of appearance before proceeding.

### 25-50-20/610 Preconstruction survey

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Procedure:** Before starting work on designated items, take the site dimensions, record them on shop drawings and use them to ensure accurate fabrication.
- **Primary support structure:** Survey sufficiently to verify that the required accuracy and security of erection can be achieved.
- **Timing:** Before fabrication.

### 25-50-20/640 Fixing of wood frames

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Method:** Plugged, screwed and pelleted.

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

#### 25-50-20/641 Fixing of Architraves

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206.

- **Method:** Pinned and glued architraves with extension linings with fixing holes polished out.

#### 25-50-20/655 Fixing hardware type A

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Holes for components:** No larger than required for satisfactory fit and operation.
- **Adjacent surfaces:** Do not damage.
- **Integrity of the assembly, as established by testing:** Do not compromise.
- **Cutting:** Cut accurately.
- **Clearances (maximum):** 8 mm, unless protected by intumescent paste or similar.
- **Hinges:**
  - **Primary hinge positions:** With centre lines 250 mm from top and bottom of door leaf.
  - **Third hinge position:** On centre line of door leaf. With centre line 250 mm below centre line of top hinge.

#### 25-50-20/680 Frame sealant joints

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Application:** Prepare joints. Form triangular fillets finished to a flat or slightly convex profile.

#### 25-50-20/685 Timing of fixing of doorsets

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

#### 25-50-20/690 Building-in permissions

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16,

WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **General:** Not permitted unless indicated on drawings.
- **Where permitted:**
  - **Preparation:** Remove horns and provide support.
  - **Fixing cramps:** Fully bed in mortar or affix to subframe or reveal structure.

#### **25-50-20/695 Protection of components**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

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

#### **45-25-28/605 Moisture content of wood products**

**Shared by:** 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** To BS EN 942.
- **Moisture content on delivery:**
  - 13–19% for external joinery.
  - 12–16% for unheated buildings.
  - 9–13% for buildings with heating providing room temperatures in the range 12–21°C.
  - 6–10% for buildings with heating providing room temperatures in excess of 21°C.

#### **45-25-28/630 Installing hardware**

**Shared by:** 45-25-28/344 External metal doorsets type B; type C and type D; 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; 45-25-28/366 External sliding door and partition sets type A; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** In accordance with third party certification for doors, door assembly or doorsets.
- **Submissions:** Evidence of compliance with certification.

#### **45-25-28/640 Workmanship in joinery**

**Shared by:** 45-25-28/348 Wood doorsets type A; type B; type C; type D; type E; type F; type G and type H; and 45-25-28/366 Sliding door and partition sets type Internal.

- **Standard:** To BS 1186-2.

#### **45-45-95/605 Environmental conditions for installing wood boards and wood-based panels**

**Shared by:** 45-45-95/460 Medium density fibreboard type A and type B.

- **General requirements prior to starting work specified in this section:** Building weathertight and watertight, wet trades completed and affected areas dried out before fixing boards or sheets internally.
- **Temperature and humidity before, during and after installing strips and boards:** Maintain at levels approximating to those prevailing while building is occupied.
- **Protection during and after installation:** Keep boards dry.

#### **45-45-95/610 Moisture content and conditioning of wood-based boards and panels**

**Shared by:** 45-45-95/460 Medium density fibreboard type A and type B.

- **Moisture content:** Maintain within component's specified range during storage and manufacture.
- **Moisture content of boards at time of fixing:** 11%
- **Conditioning regime:** During delivery, storage, fixing and to handover maintain conditions to suit specified moisture contents of timber components.
- **Test regime and equipment:** When instructed, test components with approved moisture meter to manufacturer's recommendations.
- **Test results:** Submit record of tests and results.

#### **45-55-75/610 Suitability of joints for sealant application type B**

- **Joint dimensions:** Within limits specified for the sealant.
- **Substrate quality:** Surfaces regular, undamaged and stable.
- **Joints not fit to receive sealant:** Submit proposals for rectification.

#### **45-55-75/620 Joint preparation for sealant application type B**

- **Surfaces to which sealant must adhere:** Remove temporary coatings, tapes, loosely adhering material, dust, oil, grease, surface water and contaminants that may affect bond.
- **Cleaning:** Use materials and methods recommended by sealant manufacturer.
- **Vulnerable surfaces adjacent to joints:** Mask and do not stain or smear with primer or sealant.

#### **45-55-75/630 Applying joint sealants type B**

- **Substrate:** As recommended by sealant manufacturer.
- **Environmental conditions:** Do not dry or raise temperature of joints by heating.
- **Sealant application:** Completely and neatly fill joints. Provide firm adhesion to substrates.
- **Sealant profiles:**
  - **Butt and lap joints:** Slightly concave.
  - **Fillet joints:** Slightly convex.
- **Protection:** Do not contaminate or damage finished joints.

### **System completion**

#### **25-50-20/810 Documentation relating to doors, door assemblies and doorsets**

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 25-50-20/120 Doorset system (External) type WT-06, WT-06A, WT-07, WT-08, WT-09, WT-10, WT-11, WT-14, WT-15, WT-16, WT-17, WT-20, WT-26, WT-27; type WT-0A; type WT-0B; type WT-0x, WT-0x, WT-0x, WT-0x, WT-0x, WT-0x; type WT-23, WT-24 and type WT-25.

- **Fire safety information:**  
Location of every fire door in the building, the fire door certificate relevant to the installed door, fire safety strategy, maintenance information for each component, frequency of inspection and maintenance depending on expected usage of the door.
- **Fire performance evidence:**  
Provide third party certification of product conformity with the specified fire performance for each door or doorset supplied. Include identifier schedule or similar to allow individual doors to be

located;

Test evidence must be in the name of the door or doorset manufacturer;

All wood doors should be plugged to BM TRADA Q Mark requirements and/ or any CERTIFIRE metal foil labels where applicable.

- **Smoke performance:**

Provide third party certification of product conformity with the specified smoke performance for each door or doorset supplied. Include identifier schedule or similar to allow individual doors to be located. Test evidence must be in the name of the door or doorset manufacturer.

- **Acoustic performance evidence:**

Provide third party certification of product conformity for specified acoustic performance for sound attenuating door or doorset supplied.

Ω End of system



## 35-05-35/135 Shelving type FFE-516, FFE-517, FFE-518, FFE-519, FFE-520, FFE-521, FFE-522

### System outline

#### 35-05-35/135 Shelving type FFE-516, FFE-517, FFE-518, FFE-519, FFE-520, FFE-521, FFE-522

- **Type:** FFE-516, FFE-517, FFE-518, FFE-519, FFE-520, FFE-521, FFE-522
- **Location:** Apartments: Wardrobes
- **Fittings:** 45-35-80/320 Shelves type A.
- **Other requirements:**  
Include polished chrome rail and end/centre supports.  
Linear LED strip light
- **Execution:** 35-05-35/605 Installation of control samples type D.

### Products

#### 45-35-80/320 Shelves type A

- **Material:** 45-45-95/460 Medium density fibreboard type A
- **Finish:** Preprimed for site painting.
- **Dimensions:**
  - **Length:** Refer to Architects drawings.
  - **Width:** Refer to Architects drawings.
  - **Thickness:** Refer to Architects drawings.
- **Integral accessories:** Adjustable shelf supports.
- **Execution:** 45-35-80/610 Installing shelves and shelf units.

#### 45-45-95/460 Medium density fibreboard type A

**Shared by:** 35-05-50/520 Window boards; and 45-35-80/320 Shelves type A and type B.

- **General requirements:** 45-60-90/340 Timber procurement.
- **Standard:** To BS EN 622-5 and BS EN 13986.
- **Grade:** To BS EN 622-5, type MDF.
- **VOC emissions:** Submit proposals.
- **Formaldehyde class:** To BS EN 622-1, Class E1.
- **Recycled content (minimum):** Submit proposals.
- **Execution:**  
45-45-95/605 Environmental conditions for installing wood boards and wood-based panels;  
45-45-95/610 Moisture content and conditioning of wood-based boards and panels;

#### 45-60-90/340 Timber procurement

**Shared by:** 45-45-95/460 Medium density fibreboard type A and type B; 45-75-95/315 Medium density fibreboard (MDF) skirtings; and 45-75-95/355 Medium density fibreboard (MDF) picture rail.

- **Timber source:**
  - **General requirements:** Obtain from well managed forests and/ or plantations.

- **Legality and sustainability:** Sustainability requirements set in UK Government timber procurement policy (UKTPP) and as outlined in the supporting Timber Procurement Advice Note (TPAN).
- **Documentation to be submitted:** Documentary evidence (which has been or can be independently verified) regarding the provenance of timber supplied and Documentary evidence that suppliers have adopted and are implementing a formal environmental purchasing policy for timber and wood-derived products.
- **Certification scheme:** Forest Stewardship Council (FSC).

## Execution

### 35-05-35/605 Installation of control samples type D

**Shared by:** 35-05-35/135 Shelving type FFE-500, FFE-501, FFE-502, FFE-503, FFE-504, FFE-505, FFE-507, FFE-508, FFE-509, FFE-510, FFE-511, FFE-512, FFE-513, FFE-514, FFE-515, FFE-523; and 35-05-35/135 Shelving type FFE-516, FFE-517, FFE-518, FFE-519, FFE-520, FFE-521, FFE-522.

- **Purpose:** For use as an installation reference sample.
- **Location of samples:** To be agreed with Architect.
- **Timing:** Construct during preliminary installation. Obtain approval of appearance before proceeding.

### 45-35-80/610 Installing shelves and shelf units

**Shared by:** 45-35-80/320 Shelves type A and type B.

- **General criteria:** Fitted to be stable, secure and level, with no unplanned gaps between adjacent units and between units and building fabric.

### 45-45-95/605 Environmental conditions for installing wood boards and wood-based panels

**Shared by:** 45-45-95/460 Medium density fibreboard type A and type B.

- **General requirements prior to starting work specified in this section:** Building weathertight and watertight, wet trades completed and affected areas dried out before fixing boards or sheets internally.
- **Temperature and humidity before, during and after installing strips and boards:** Maintain at levels approximating to those prevailing while building is occupied.
- **Protection during and after installation:** Keep boards dry.

### 45-45-95/610 Moisture content and conditioning of wood-based boards and panels

**Shared by:** 45-45-95/460 Medium density fibreboard type A and type B.

- **Moisture content:** Maintain within component's specified range during storage and manufacture.
- **Moisture content of boards at time of fixing:** 11%
- **Conditioning regime:** During delivery, storage, fixing and to handover maintain conditions to suit specified moisture contents of timber components.
- **Test regime and equipment:** When instructed, test components with approved moisture meter to manufacturer's recommendations.
- **Test results:** Submit record of tests and results.

# 35-05-35/135 Shelving - type FFE-XXX

## System outline

### 35-05-35/135 Shelving - type FFE-XXX

- **Type:** FFE-XXX
- **Location:** Apartments: Utility storage
- **Fittings:** 45-35-80/320 Shelves type A.
- **Execution:** 35-05-35/605 Installation of control samples type D.

## Products

### 45-35-80/320 Shelves type A

- **Material:** 45-45-95/460 Medium density fibreboard type A
- **Finish:** Preprimed for site painting.
- **Dimensions:**
  - **Length:** Refer to Architects drawings.
  - **Width:** Refer to Architects drawings.
  - **Thickness:** Refer to Architects drawings.
- **Integral accessories:** Adjustable shelf supports.
- **Execution:** 45-35-80/610 Installing shelves and shelf units.

### 45-45-95/460 Medium density fibreboard type A

**Shared by:** 35-05-50/520 Window boards; and 45-35-80/320 Shelves type A and type B.

- **General requirements:** 45-60-90/340 Timber procurement.
- **Standard:** To BS EN 622-5 and BS EN 13986.
- **Grade:** To BS EN 622-5, type MDF.
- **VOC emissions:** Submit proposals.
- **Formaldehyde class:** To BS EN 622-1, Class E1.
- **Recycled content (minimum):** Submit proposals.
- **Execution:**  
45-45-95/605 Environmental conditions for installing wood boards and wood-based panels;  
45-45-95/610 Moisture content and conditioning of wood-based boards and panels;

### 45-60-90/340 Timber procurement

**Shared by:** 45-45-95/460 Medium density fibreboard type A and type B; 45-75-95/315 Medium density fibreboard (MDF) skirtings; and 45-75-95/355 Medium density fibreboard (MDF) picture rail.

- **Timber source:**
  - **General requirements:** Obtain from well managed forests and/ or plantations.
  - **Legality and sustainability:** Sustainability requirements set in UK Government timber procurement policy (UKTPP) and as outlined in the supporting Timber Procurement Advice Note (TPAN).
  - **Documentation to be submitted:** Documentary evidence (which has been or can be independently verified) regarding the provenance of timber supplied and Documentary

evidence that suppliers have adopted and are implementing a formal environmental purchasing policy for timber and wood-derived products.

- **Certification scheme:** Forest Stewardship Council (FSC).

## Execution

### 35-05-35/605 Installation of control samples type D

**Shared by:** 35-05-35/135 Shelving type FFE-500, FFE-501, FFE-502, FFE-503, FFE-504, FFE-505, FFE-507, FFE-508, FFE-509, FFE-510, FFE-511, FFE-512, FFE-513, FFE-514, FFE-515, FFE-523; and 35-05-35/135 Shelving type FFE-516, FFE-517, FFE-518, FFE-519, FFE-520, FFE-521, FFE-522.

- **Purpose:** For use as an installation reference sample.
- **Location of samples:** To be agreed with Architect.
- **Timing:** Construct during preliminary installation. Obtain approval of appearance before proceeding.

### 45-35-80/610 Installing shelves and shelf units

**Shared by:** 45-35-80/320 Shelves type A and type B.

- **General criteria:** Fitted to be stable, secure and level, with no unplanned gaps between adjacent units and between units and building fabric.

### 45-45-95/605 Environmental conditions for installing wood boards and wood-based panels

**Shared by:** 45-45-95/460 Medium density fibreboard type A and type B.

- **General requirements prior to starting work specified in this section:** Building weathertight and watertight, wet trades completed and affected areas dried out before fixing boards or sheets internally.
- **Temperature and humidity before, during and after installing strips and boards:** Maintain at levels approximating to those prevailing while building is occupied.
- **Protection during and after installation:** Keep boards dry.

### 45-45-95/610 Moisture content and conditioning of wood-based boards and panels

**Shared by:** 45-45-95/460 Medium density fibreboard type A and type B.

- **Moisture content:** Maintain within component's specified range during storage and manufacture.
- **Moisture content of boards at time of fixing:** 11%
- **Conditioning regime:** During delivery, storage, fixing and to handover maintain conditions to suit specified moisture contents of timber components.
- **Test regime and equipment:** When instructed, test components with approved moisture meter to manufacturer's recommendations.
- **Test results:** Submit record of tests and results.

Ω End of system

35-05-35/135 Shelving - type FFE-500, FFE-501, FFE-502, FFE-503, FFE-504, FFE-505, FFE-507, FFE-508, FFE-509, FFE-510, FFE-511, FFE-512, FFE-513, FFE-514, FFE-515, FFE-523

## System outline

**35-05-35/135 Shelving type FFE-500, FFE-501, FFE-502, FFE-503, FFE-504, FFE-505, FFE-507, FFE-508, FFE-509, FFE-510, FFE-511, FFE-512, FFE-513, FFE-514, FFE-515, FFE-523**

- **Location:** Apartments: Alcoves
- **Fittings:** 45-35-80/320 Shelves type B.
- **Execution:** 35-05-35/605 Installation of control samples type D.

## Products

### 45-35-80/320 Shelves type B

- **Material:** 45-45-95/460 Medium density fibreboard type A
- **Finish:** Preprimed for site painting.
- **Dimensions:**
  - **Length:** Refer to Architects drawings.
  - **Width:** Refer to Architects drawings.
  - **Thickness:** Refer to Architects drawings.
- **Integral accessories:** Fixed shelf supports.
- **Execution:** 45-35-80/610 Installing shelves and shelf units.

### 45-45-95/460 Medium density fibreboard type A

**Shared by:** 35-05-50/520 Window boards; and 45-35-80/320 Shelves type A and type B.

- **General requirements:** 45-60-90/340 Timber procurement.
- **Standard:** To BS EN 622-5 and BS EN 13986.
- **Grade:** To BS EN 622-5, type MDF.
- **VOC emissions:** Submit proposals.
- **Formaldehyde class:** To BS EN 622-1, Class E1.
- **Recycled content (minimum):** Submit proposals.
- **Execution:**  
45-45-95/605 Environmental conditions for installing wood boards and wood-based panels;  
45-45-95/610 Moisture content and conditioning of wood-based boards and panels;

### 45-60-90/340 Timber procurement

**Shared by:** 45-45-95/460 Medium density fibreboard type A and type B; 45-75-95/315 Medium density fibreboard (MDF) skirtings; and 45-75-95/355 Medium density fibreboard (MDF) picture rail.

- **Timber source:**
  - **General requirements:** Obtain from well managed forests and/ or plantations.

- **Legality and sustainability:** Sustainability requirements set in UK Government timber procurement policy (UKTPP) and as outlined in the supporting Timber Procurement Advice Note (TPAN).
- **Documentation to be submitted:** Documentary evidence (which has been or can be independently verified) regarding the provenance of timber supplied and Documentary evidence that suppliers have adopted and are implementing a formal environmental purchasing policy for timber and wood-derived products.
- **Certification scheme:** Forest Stewardship Council (FSC).

## Execution

### 35-05-35/605 Installation of control samples type D

**Shared by:** 35-05-35/135 Shelving type FFE-500, FFE-501, FFE-502, FFE-503, FFE-504, FFE-505, FFE-507, FFE-508, FFE-509, FFE-510, FFE-511, FFE-512, FFE-513, FFE-514, FFE-515, FFE-523; and 35-05-35/135 Shelving type FFE-516, FFE-517, FFE-518, FFE-519, FFE-520, FFE-521, FFE-522.

- **Purpose:** For use as an installation reference sample.
- **Location of samples:** To be agreed with Architect.
- **Timing:** Construct during preliminary installation. Obtain approval of appearance before proceeding.

### 45-35-80/610 Installing shelves and shelf units

**Shared by:** 45-35-80/320 Shelves type A and type B.

- **General criteria:** Fitted to be stable, secure and level, with no unplanned gaps between adjacent units and between units and building fabric.

### 45-45-95/605 Environmental conditions for installing wood boards and wood-based panels

**Shared by:** 45-45-95/460 Medium density fibreboard type A and type B.

- **General requirements prior to starting work specified in this section:** Building weathertight and watertight, wet trades completed and affected areas dried out before fixing boards or sheets internally.
- **Temperature and humidity before, during and after installing strips and boards:** Maintain at levels approximating to those prevailing while building is occupied.
- **Protection during and after installation:** Keep boards dry.

### 45-45-95/610 Moisture content and conditioning of wood-based boards and panels

**Shared by:** 45-45-95/460 Medium density fibreboard type A and type B.

- **Moisture content:** Maintain within component's specified range during storage and manufacture.
- **Moisture content of boards at time of fixing:** 11%
- **Conditioning regime:** During delivery, storage, fixing and to handover maintain conditions to suit specified moisture contents of timber components.
- **Test regime and equipment:** When instructed, test components with approved moisture meter to manufacturer's recommendations.
- **Test results:** Submit record of tests and results.

# 35-05-50/150 Minor joinery system (Skirting) - type TRM-01

## System outline

### 35-05-50/150 Minor joinery system (Skirting) type TRM-01

- **Skirtings:** 45-75-95/315 Medium density fibreboard (MDF) skirtings.
- **Fasteners:** Submit proposals.
- **Execution:** 35-05-50/605 Installation control samples and 35-05-50/620 Fixing wood.

## Products

### 45-60-90/340 Timber procurement

**Shared by:** 45-45-95/460 Medium density fibreboard type A and type B; 45-75-95/315 Medium density fibreboard (MDF) skirtings; and 45-75-95/355 Medium density fibreboard (MDF) picture rail.

- **Timber source:**
  - **General requirements:** Obtain from well managed forests and/ or plantations.
  - **Legality and sustainability:** Sustainability requirements set in UK Government timber procurement policy (UKTPP) and as outlined in the supporting Timber Procurement Advice Note (TPAN).
  - **Documentation to be submitted:** Documentary evidence (which has been or can be independently verified) regarding the provenance of timber supplied and Documentary evidence that suppliers have adopted and are implementing a formal environmental purchasing policy for timber and wood-derived products.
- **Certification scheme:** Forest Stewardship Council (FSC).

### 45-75-95/315 Medium density fibreboard (MDF) skirtings

- **General requirements:** 45-60-90/340 Timber procurement .
- **Class:** To BS EN 622-5, class MDF.
- **Profile:** To be confirmed by the Architect.
- **Finish:** Primed for site decoration.
- **Execution:** 45-75-95/605 Installing wood architraves, skirtings, mouldings and trims.

## Execution

### 35-05-50/605 Installation control samples

**Shared by:** 35-05-50/150 Minor joinery system (Skirting) type TRM-01; 35-05-50/150 Minor joinery system (Window Boards) type TRM-02; and 35-05-50/150 Minor joinery system (Picture Rail) type TRM-03.

- **Required samples:**
  - **Purpose:** For use as an installation reference sample.
  - **Locations:** To be agreed with Architect.



- **Timing:** Construct during preliminary installation. Obtain approval of appearance before proceeding.

### 35-05-50/610 Installation of isolated trims generally

- **Straight runs:** In one piece or in long lengths with as few joints as possible.
- **Location and method of forming running joints:** When unavoidable, obtain approval of location and method of jointing.
- **Joints at angles:** Mitre

### 35-05-50/620 Fixing wood

**Shared by:** 35-05-50/150 Minor joinery system (Skirting) type TRM-01; 35-05-50/150 Minor joinery system (Window Boards) type TRM-02; and 35-05-50/150 Minor joinery system (Picture Rail) type TRM-03.

- **General requirements:** 35-05-50/610 Installation of isolated trims generally.
- **Method:** Screw fix and apply pellet.
- **Centres:** Submit proposals.

### 45-75-95/605 Installing wood architraves, skirtings, mouldings and trims

**Shared by:** 45-75-95/315 Medium density fibreboard (MDF) skirtings; and 45-75-95/355 Medium density fibreboard (MDF) picture rail.

- **Lengths:** Unjointed between angles or ends of runs.
- **Running joints:** Submit proposals for location and method of jointing where unavoidable.
- **Angle joints:** Mitred.
- **Conditioning regime:** During delivery, storage, fixing and to handover maintain conditions to suit specified moisture contents of timber components.
- **Environmental conditions:**  
Control ambient temperature and humidity conditions to maintain moisture content at average level specified in BS EN 942, Table B.1 for the relevant service condition until completion  
Do not fix when ambient temperature is at or below 0°C, or above 30°C.
- **Fixing:**
  - **General:** Fix securely.
  - **Surface fixing:** Face nailed.
  - **Exposed nail heads:** Neatly punch below surface.

Ω End of system

# 35-05-50/150 Minor joinery system (Window Boards) - type TRM-02

## System outline

### 35-05-50/150 Minor joinery system (Window Boards) type TRM-02

- **Sundry items:** 35-05-50/520 Window boards.
- **Fasteners:** 45-50-60/440 Wood screws type A.
- **Pointing:** 45-55-75/320 Acrylic construction joint sealants.
- **Execution:** 35-05-50/605 Installation control samples and 35-05-50/620 Fixing wood.

## Products

### 45-45-95/460 Medium density fibreboard type A

**Shared by:** 35-05-50/520 Window boards; and 45-35-80/320 Shelves type A and type B.

- **General requirements:** 45-60-90/340 Timber procurement.
- **Standard:** To BS EN 622-5 and BS EN 13986.
- **Grade:** To BS EN 622-5, type MDF.
- **VOC emissions:** Submit proposals.
- **Formaldehyde class:** To BS EN 622-1, Class E1.
- **Recycled content (minimum):** Submit proposals.
- **Execution:**  
45-45-95/605 Environmental conditions for installing wood boards and wood-based panels;  
45-45-95/610 Moisture content and conditioning of wood-based boards and panels;

### 45-50-60/440 Wood screws type A

- **Standard:** To BS 1210.
- **Material:** Submit proposals
- **Execution:** 45-50-60/620 Fixing with screws.

### 45-55-75/320 Acrylic construction joint sealants

**Shared by:** 25-50-20/120 Doorset system (Internal) type DT-101; type DT-102, DT-103, DT-104, DT-105, DT-06, DT-07; type DT-108; type DT-301, DT-308; type DT-302; type DT-303; type DT-305; type DT-306, DT-307 and type WR-201, WR-202, WR-203, WR-204, WR-205, WR-206; and 35-05-50/150 Minor joinery system (Window Boards) type TRM-02.

- **Manufacturer:** Submit proposals.
- **Standard:** To BS EN ISO 11600.
- **Third party certification:** Third party accredited by UKAS approved or recognized body.
- **Sealant type:** Mastic.
- **Class:** F-12.5P.
- **Colour:** Submit proposals.
- **Fire resistance:** Submit relevant third party certified BS 476-20 test results.

- **Execution:**  
45-55-75/610 Suitability of joints for sealant application type B;  
45-55-75/620 Joint preparation for sealant application type B;  
45-55-75/630 Applying joint sealants type B.

#### **45-60-90/340 Timber procurement**

**Shared by:** 45-45-95/460 Medium density fibreboard type A and type B; 45-75-95/315 Medium density fibreboard (MDF) skirtings; and 45-75-95/355 Medium density fibreboard (MDF) picture rail.

- **Timber source:**
  - **General requirements:** Obtain from well managed forests and/ or plantations.
  - **Legality and sustainability:** Sustainability requirements set in UK Government timber procurement policy (UKTPP) and as outlined in the supporting Timber Procurement Advice Note (TPAN).
  - **Documentation to be submitted:** Documentary evidence (which has been or can be independently verified) regarding the provenance of timber supplied and Documentary evidence that suppliers have adopted and are implementing a formal environmental purchasing policy for timber and wood-derived products.
- **Certification scheme:** Forest Stewardship Council (FSC).

#### **Custom made products**

##### **35-05-50/520 Window boards**

- **Material:** 45-45-95/460 Medium density fibreboard type A.
- **Thickness:** Refer to Architects drawings.
- **Width:** Refer to Architects drawings.
- **Exposed edges:**
  - **Edge profile:** To be confirmed by the Architect.
- **Finish as delivered:** Pre-primed for site decoration.

#### **Execution**

##### **35-05-50/605 Installation control samples**

**Shared by:** 35-05-50/150 Minor joinery system (Skirting) type TRM-01; 35-05-50/150 Minor joinery system (Window Boards) type TRM-02; and 35-05-50/150 Minor joinery system (Picture Rail) type TRM-03.

- **Required samples:**
  - **Purpose:** For use as an installation reference sample.
  - **Locations:** To be agreed with Architect.
  - **Timing:** Construct during preliminary installation. Obtain approval of appearance before proceeding.

##### **35-05-50/610 Installation of isolated trims generally**

- **Straight runs:** In one piece or in long lengths with as few joints as possible.
- **Location and method of forming running joints:** When unavoidable, obtain approval of location and method of jointing.
- **Joints at angles:** Mitre

### 35-05-50/620 Fixing wood

**Shared by:** 35-05-50/150 Minor joinery system (Skirting) type TRM-01; 35-05-50/150 Minor joinery system (Window Boards) type TRM-02; and 35-05-50/150 Minor joinery system (Picture Rail) type TRM-03.

- **General requirements:** 35-05-50/610 Installation of isolated trims generally.
- **Method:** Screw fix and apply pellet.
- **Centres:** Submit proposals.

### 45-45-95/605 Environmental conditions for installing wood boards and wood-based panels

**Shared by:** 45-45-95/460 Medium density fibreboard type A and type B.

- **General requirements prior to starting work specified in this section:** Building weathertight and watertight, wet trades completed and affected areas dried out before fixing boards or sheets internally.
- **Temperature and humidity before, during and after installing strips and boards:** Maintain at levels approximating to those prevailing while building is occupied.
- **Protection during and after installation:** Keep boards dry.

### 45-45-95/610 Moisture content and conditioning of wood-based boards and panels

**Shared by:** 45-45-95/460 Medium density fibreboard type A and type B.

- **Moisture content:** Maintain within component's specified range during storage and manufacture.
- **Moisture content of boards at time of fixing:** 11%
- **Conditioning regime:** During delivery, storage, fixing and to handover maintain conditions to suit specified moisture contents of timber components.
- **Test regime and equipment:** When instructed, test components with approved moisture meter to manufacturer's recommendations.
- **Test results:** Submit record of tests and results.

### 45-50-60/620 Fixing with screws

- **Clearance holes:** Required.
- **Fastener spacing:** Submit proposals.
- **Finished level of screw heads:**
  - **Concealed (holes filled or stopped):** Sink minimum 2 mm below surface.

### 45-55-75/610 Suitability of joints for sealant application type B

- **Joint dimensions:** Within limits specified for the sealant.
- **Substrate quality:** Surfaces regular, undamaged and stable.
- **Joints not fit to receive sealant:** Submit proposals for rectification.

### 45-55-75/620 Joint preparation for sealant application type B

- **Surfaces to which sealant must adhere:** Remove temporary coatings, tapes, loosely adhering material, dust, oil, grease, surface water and contaminants that may affect bond.
- **Cleaning:** Use materials and methods recommended by sealant manufacturer.
- **Vulnerable surfaces adjacent to joints:** Mask and do not stain or smear with primer or sealant.

### 45-55-75/630 Applying joint sealants type B

- **Substrate:** As recommended by sealant manufacturer.

- **Environmental conditions:** Do not dry or raise temperature of joints by heating.
- **Sealant application:** Completely and neatly fill joints. Provide firm adhesion to substrates.
- **Sealant profiles:**
  - **Butt and lap joints:** Slightly concave.
  - **Fillet joints:** Slightly convex.
- **Protection:** Do not contaminate or damage finished joints.

Ω End of system

# 35-05-50/150 Minor joinery system (Picture Rail) - type TRM-03

## System outline

### 35-05-50/150 Minor joinery system (Picture Rail) type TRM-03

- **Decorative trims:** 45-75-95/355 Medium density fibreboard (MDF) picture rail.
- **Fasteners:** Submit proposals.
- **Execution:** 35-05-50/605 Installation control samples and 35-05-50/620 Fixing wood.

## Products

### 45-60-90/340 Timber procurement

**Shared by:** 45-45-95/460 Medium density fibreboard type A and type B; 45-75-95/315 Medium density fibreboard (MDF) skirtings; and 45-75-95/355 Medium density fibreboard (MDF) picture rail.

- **Timber source:**
  - **General requirements:** Obtain from well managed forests and/ or plantations.
  - **Legality and sustainability:** Sustainability requirements set in UK Government timber procurement policy (UKTPP) and as outlined in the supporting Timber Procurement Advice Note (TPAN).
  - **Documentation to be submitted:** Documentary evidence (which has been or can be independently verified) regarding the provenance of timber supplied and Documentary evidence that suppliers have adopted and are implementing a formal environmental purchasing policy for timber and wood-derived products.
- **Certification scheme:** Forest Stewardship Council (FSC).

### 45-75-95/355 Medium density fibreboard (MDF) picture rail

- **General requirements:** 45-60-90/340 Timber procurement.
- **Class:** To BS EN 622-5, class MDF.
- **Size:** Refer to Architects drawings.
- **Finish:** Primed for site decoration.
- **Execution:** 45-75-95/605 Installing wood architraves, skirtings, mouldings and trims.

## Execution

### 35-05-50/605 Installation control samples

**Shared by:** 35-05-50/150 Minor joinery system (Skirting) type TRM-01; 35-05-50/150 Minor joinery system (Window Boards) type TRM-02; and 35-05-50/150 Minor joinery system (Picture Rail) type TRM-03.

- **Required samples:**
  - **Purpose:** For use as an installation reference sample.
  - **Locations:** To be agreed with Architect.

- **Timing:** Construct during preliminary installation. Obtain approval of appearance before proceeding.

### 35-05-50/610 Installation of isolated trims generally

- **Straight runs:** In one piece or in long lengths with as few joints as possible.
- **Location and method of forming running joints:** When unavoidable, obtain approval of location and method of jointing.
- **Joints at angles:** Mitre

### 35-05-50/620 Fixing wood

**Shared by:** 35-05-50/150 Minor joinery system (Skirting) type TRM-01; 35-05-50/150 Minor joinery system (Window Boards) type TRM-02; and 35-05-50/150 Minor joinery system (Picture Rail) type TRM-03.

- **General requirements:** 35-05-50/610 Installation of isolated trims generally.
- **Method:** Screw fix and apply pellet.
- **Centres:** Submit proposals.

### 45-75-95/605 Installing wood architraves, skirtings, mouldings and trims

**Shared by:** 45-75-95/315 Medium density fibreboard (MDF) skirtings; and 45-75-95/355 Medium density fibreboard (MDF) picture rail.

- **Lengths:** Unjointed between angles or ends of runs.
- **Running joints:** Submit proposals for location and method of jointing where unavoidable.
- **Angle joints:** Mitred.
- **Conditioning regime:** During delivery, storage, fixing and to handover maintain conditions to suit specified moisture contents of timber components.
- **Environmental conditions:**  
Control ambient temperature and humidity conditions to maintain moisture content at average level specified in BS EN 942, Table B.1 for the relevant service condition until completion  
Do not fix when ambient temperature is at or below 0°C, or above 30°C.
- **Fixing:**
  - **General:** Fix securely.
  - **Surface fixing:** Face nailed.
  - **Exposed nail heads:** Neatly punch below surface.

Ω End of system