

Section L (NBS)



Series 1 Doors

Composite Doors (Aluminium/Timber)

Project :-

For :-

SENIOR
HYBRID
SYSTEMS

L20 DOORS / SHUTTERS / HATCHES

To be read with Preliminaries/ General conditions.

PRELIMINARY INFORMATION/ REQUIREMENTS

110 EVIDENCE OF PERFORMANCE

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

120 SITE DIMENSIONS

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

- 330 Framing System: Senior Architectural Systems Ltd, Hybrid Aluminium/Timber Composite Series for light & medium use.
Supporting Structure: As detailed drawings
Drawing References:
Type :- Double and single open out/in door/s .

Frames are to be fabricated from S.A.S Hybrid profiles, all available from:

Senior Architectural Systems Ltd
Eland Road,
Denaby Main,
Doncaster,
South Yorkshire
DN12 4HA

Telephone: 01709 772600

Contact:

Manufacturer: Hybrid Door Series- Open In/Open Out

- Materials:
 - Exterior frame/ sash exterior cladding: Extruded aluminium Alloy 6063 T5/T6 to BS En 755 Pt 9 2001
 - Finish: Polyester Powder coated to minimum 40 microns thickness. Architect to confirm colour (Ref Ral.....) from standard colour range.
 - Interior frame/sash section: Purpose engineered profiles in Spruce laminated timber,(Scantlings);in principle without faults (like knots and flaws). Certificated to IFT Rosenheim, DIN EN 204 glued with D4 glue, Finger joints in outer layers at approximately 500 mm plus centres with a moisture content of 12% +/- 2%. PEFC /04-32-0042 Certified
 - Finish: Matt Lacquered finish on spruce – 150 – 300 micron wet film thickness

The doors to be manufactured, installed and glazed in strict accordance with SAS instructions and industry guidelines set down in the appropriate technical literature, details and specifications.

Weather Performance

Outward Opening Single Door

PAS-23

Air Permeability 500pa

Water tightness 300pa

Wind Resistance 800pa

Inward Opening Double Door**Exposure Category to BS 6375-1:2004****Classification 2C**

Air Permeability 300pa

Water Tightness 50pa

Wind Resistance 800pa

Inward Opening Single Door-low threshold**Classification 3C**

Air Permeability 300pa

Water Tightness 100pa

Wind Resistance 1200pa

Note: these results have been obtained using a standard low threshold detail, if a fully rebated detail can be utilised then a higher weather performance is possible – but has not been tested.

The sections are to comprise :-

Door & Frame Open Out

Outer Frame :- HA175 & HT306

Door Stiles :- HA173 & HT304

Door top rail :- HA173 & HT304

Doors bottom rail :- HA173, HT304, HA137 & HA184

Bead :- HT005 & HA159F

Threshold :- HA176

Mid Rail :- HA170 & HT302

Dummy Mullion/Interlock:- HA174 & HT305(Double Doors Only)

Door & Frame Open In

Outer Frame :- HA162 & HT101

Door Stiles :- HA163 & HT301

Door top rail :- HA163 & HT301

Doors bottom rail :- HA163, HT301 & HA137

Bead :- HT005 & HA159F

Threshold :- HA169

Mid Rail :- HA170 & HT302

Dummy Mullion/Interlock:- HA171 & HT303(Double Doors Only)

Door Hardware :- 3 no. Butt hinges.

SRA 3 point hook lock, shoot bolt & keeps

SRA lever/lever handles

Yale euro profile cylinder

Surface Mounted over head closer with suitable back check facility

(To assist in the prevention of doors being blown back onto brickwork).

Other Requirements: Note it may where there is a requirement to provide power assist opening devices to replace the Surface mounted over head closer with a proprietary operating mechanism that will also be surface mounted, which may need to be augmented with drop plates as well as needing a deeper outer frame section to accommodate the depth of the such operating mechanisms.

Glazing for Screen & Doors(Double Glazed)

All of the double glazing will be 28/32 mm thick insulating glass overall to BS 5713, hermetically sealed and kitemark certified. The external leaf will be minimum 6 mm toughened outer pane, with 16 mm argon filled cavity including spacer bar. The internal leaf will be minimum 6.4 mm clear laminate with a low E coating, all to

achieve a centre pane U value of 1.2 W/M² K, in accordance with Document L of the Building Regulations for England & Wales.

Security may be provided through use of additional components on the single outward opening door, which when these additional components were used, this door passed a PAS23/24 type test.

INSTALLATION

710 PROTECTION OF COMPONENTS

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

740 CORROSION PROTECTION

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

750 BUILDING IN

- General: Not permitted unless indicated on drawings.
 - Brace and protect components to prevent distortion and damage during construction of adjacent structure.

760 REPLACEMENT WINDOW/DOOR INSTALLATION

- Standard: To BS 8213-4.

765 DOOR INSTALLATION GENERALLY

- Installation: Into prepared openings.
- Gap between frame edge and surrounding construction:
 - Minimum: 4 mm
 - Maximum: 6 mm
- Distortion: Install windows without twist or diagonal racking.

770 DAMP PROOF COURSES IN PREPARED OPENINGS

- Location: Ensure correct positioning in relation to window frames. Do not displace during fixing operations.

782 FIXING OF ALUMINIUM FRAMES

- Standard: As section Z20.
- Fasteners:
 - Spacing: When not predrilled or specified otherwise, position fasteners not more than 250 mm from ends of each jamb, adjacent to each hanging point of opening lights, and at maximum 600 mm centres.

810 SEALANT JOINTS

- Colour: To match windows
- Application: As section Z22 to prepared joints. Finish triangular fillets to a flat or slightly convex profile.

820 IRONMONGERY

- Fixing: Assemble and fix carefully and accurately using fasteners with matching finish supplied by ironmongery manufacturer. Do not damage ironmongery and adjacent surfaces.
- Checking / Adjusting / Lubricating: Carry out at Completion and ensure correct functioning.