

ENERGY CENTRE PROGRAMME

East Road Building (ERB) Condition 3 Materials Specifications

27.08.2024

Introduction

This document has been prepared to provide supporting information required for the discharge of planning condition 3 regarding the East Road Building at The British Museum.

It provides a summary of the specification of key elements of the materials proposed for use in the buildings construction.

1.1

External Elevations: Brickwork (F10/110A) Imperial Brick Yellow London Stock (157/65)

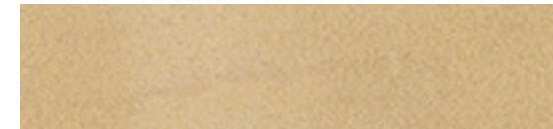
The chosen brick is an Imperial Yellow London Stock brick, product code (157/65).

Its is a through colour clay handmade brick manufactured to BS EN 771-1.

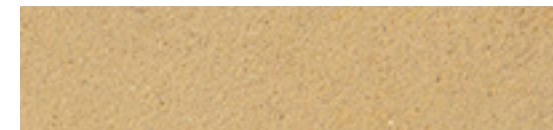
Within Wright & Wright's detailed drawings, this brick is denoted by specification codes:

- F10/110A Clay facing flemish bond brickwork
- F10/110B Clay facing stretcher bond brickwork

Mortar will be either Tarmac Yellow Y12 Medium or Cemex Yellow Dark (subject to sample panel approval by client & architect).



Cemex Yellow Dark



Tarmac Yellow Y12 Medium

Top to Bottom:

Photograph of panel sample received.

Samples of proposed Mortar.

Precedent using proposed brick.
Stockwell House, Phillips Tracey Architects, Lambeth, London



The elevation summary (from drawing SW001-WWA-1110-A_XX-DDG-A-5000) on the following page sets out the various doors and windows proposed. Within Wright & Wright's detailed drawings, these are denoted by specification codes:

- L20/480A (Type EDW_101)
- L20/480B (Type EDW_102)
- L20/482A (Type EDW_201)
- L20/482B (Type EDW_202)
- L20/480C (Type EDW_301)
- L20/480D (Type EDW_302)
- L10/310 (Type EDW_103 & 104)
- L10/650 (Type EDW_303)

All metalwork on the above doors and windows will be painted in a PPC Charcoal Grey Colour (RAL 7021) as per the below swatch.



Left to Right:
RAL 7021 sample
CGI of proposed system profile for windows and doors from Schuco Janisol
Photograph of similar arrangement of transformer room doors as proposed for door type EDW_302.

The following door/window types will be Schuco Janisol steel system frames with glazed and metal spandrel panels as indicated on drawings:

- L20/480A (Type EDW_101)
- L20/480B (Type EDW_102)
- L20/482A (Type EDW_201)
- L20/482B (Type EDW_202)
- L20/480C (Type EDW_301)
- L10/310 (Type EDW_103 & 104)
- L10/650 (Type EDW_303)

Type EDW_301 will also have a louvred panel section, which will be manufactured to suit the Schuco Janisol system door frame, and finished to match the frame. The image below provides a CGI of the proposed Janisol system frame. All metalwork will be finished in PPC Charcoal Grey (RAL 7021).

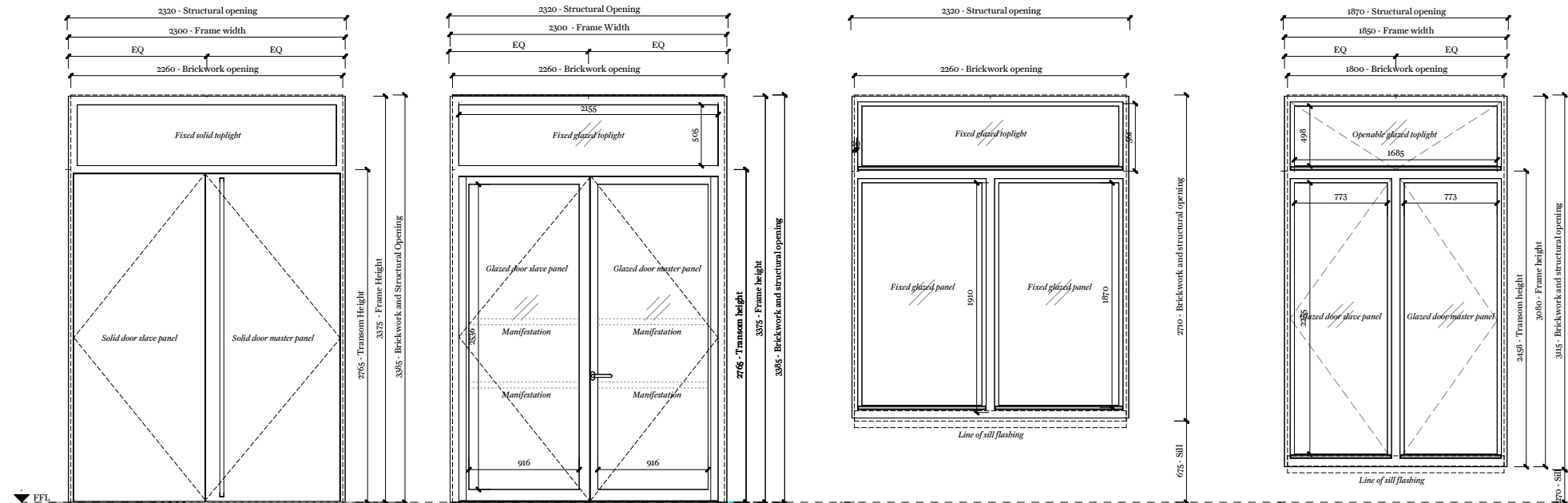


Door type:

- L20/480D (Type EDW_302)

Is a transformer room door bespoke steel manufactured by Sunray consisting of fire rated solid and louvred panel sections. All metalwork will be finished in PPC Charcoal Grey. The arrangement will be similar to that pictured below, but with solid panels where indicated on the proposed drawings.





EDW_101

Description: Double leaf steel framed steel panel door with fixed metal toplight
Type Mark: EDW_101
Spec Code: **L20/480A**
Finish: PPC (colour TBC)
Swing: Refer to GA Plans
Security: Refer to MEP Engineers Info
Ironmongery: Refer to Ironmongery Schedule

EDW_102

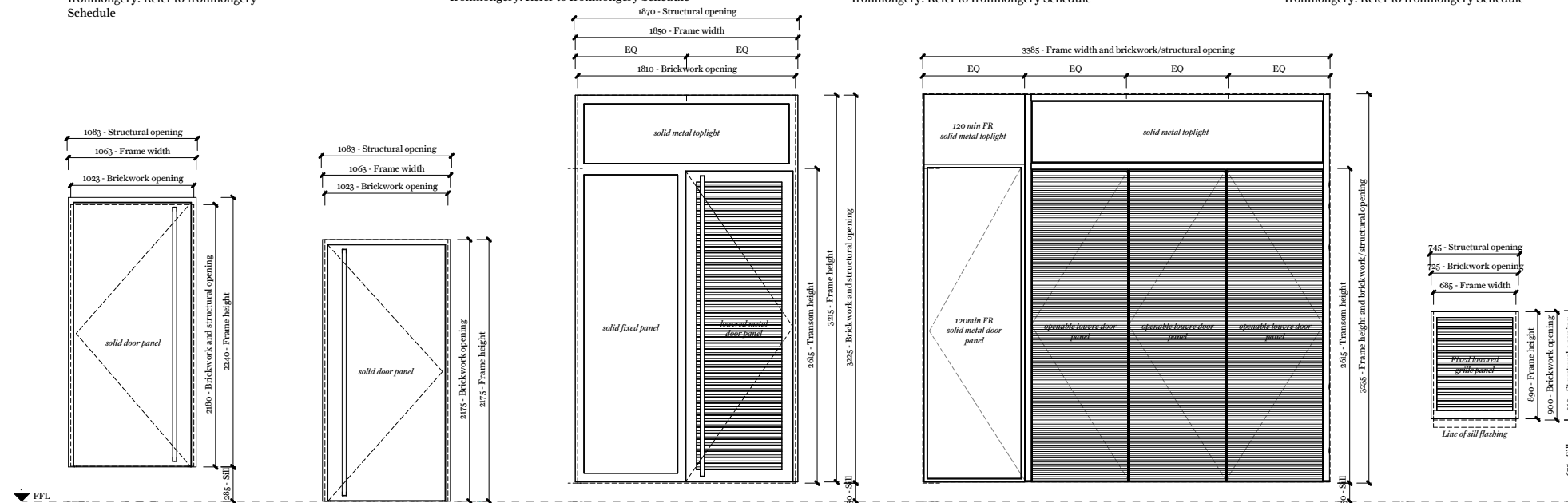
Description: Double leaf steel framed glazed door with fixed glazed toplight; anti-finger-trap
Type Mark: EDW_102
Spec Code: **L20/480B**
Finish: PPC (colour TBC)
Swing: Refer to GA Plans
Security: Refer to MEP Engineers Info
Ironmongery: Refer to Ironmongery Schedule

EDW_103

Description: Double leaf steel framed glazed window with fixed glazed toplight and fixed glazed sidelights
Type Mark: EDW_103
Spec Code: **L10/310**
Finish: PPC (colour TBC)
Swing: N/A
Security: Refer to MEP Engineers Info
Ironmongery: Refer to Ironmongery Schedule

EDW_104

Description: Double leaf steel framed glazed window with fixed glazed toplight and openable glazed light
Type Mark: EDW_104
Spec Code: **L10/310**
Finish: PPC (colour TBC)
Swing: Refer to GA Plans
Security: Refer to MEP Engineers Info
Ironmongery: Refer to Ironmongery Schedule



EDW_201

Description: Single leaf steel framed steel panel door
Type Mark: EDW_201
Spec Code: **L20/482B**
Finish: PPC (colour TBC)
Swing: Refer to GA Plans
Security: Refer to MEP Engineers Info
Fire rating: EI 30s
Ironmongery: Refer to Ironmongery Schedule

EDW_202

Description: Single leaf steel framed steel panel door
Type Mark: EDW_202
Spec Code: **L20/482A**
Finish: PPC (colour TBC)
Swing: Refer to GA Plans
Security: Refer to MEP Engineers Info
Ironmongery: Refer to Ironmongery Schedule

EDW_301

Description: Double leaf steel framed steel louvred panel door with steel fixed spandrel overpanel
Type Mark: EDW_301
Spec Code: **L20/480C**
Finish: PPC (colour TBC)
Swing: Refer to GA Plans
Security: Refer to MEP Engineers Info
Ironmongery: Refer to Ironmongery Schedule

EDW_302

Description: Transformer room triple leaf steel framed steel louvred panel door with steel fixed spandrel overpanel and fire rated solid steel door panel
Type Mark: EDW_302
Spec Code: **L20/480D**
Finish: PPC (colour TBC)
Swing: Refer to GA Plans
Security: Refer to MEP Engineers Info
Ironmongery: Refer to Ironmongery Schedule

EDW_303

Description: Steel framed steel louvred panel vent
Type Mark: EDW_303
Spec Code: **L10/650E**
Finish: PPC (colour TBC)
Swing: N/A
Security: N/A

Right:

Proposed external window and door types within the ERB.










1.3

External Elevations: Ironmongery

Please see the appended Ironmongery Schedule SW001-WWA-1110-A_XX-TSP-A-9918for details of proposed external door and window ironmongery.

Right:

ERB proposed external door and window ironmongery.

Ironmongery Specification - External SW001-WWA-1110-A_XX-TSP-A-9918										East Road Building, British Museum										WRIGHT & WRIGHT ARCHITECTS									
Notes		Note 1: Ironmongery fire test data to be reviewed to ensure compliance with door fire performance requirements. Note 2: Power-assisted or automatic opening may be required to comply with AD M opening force requirements. Allow within costing for automatic opening devices at this stage. Compatibility of ironmongery selection and access requirements to be confirmed if automatic opening device is required.																											
Item Code	Item	Quantity	Unit	Item Reference	Description	Finish	Accessories	Notes	Indicative Image																				
EXT-001	Electronic lock & handle	14	pair	TBC	Salto XS4 Original+, DIN configuration, standard line Washington handle, with mechanical override (Euro profile cylinder)	Black chrome finish (BHMA687), black reader finish (RAL 7021)	Suitable intumescent pads to be installed on all fire-rated doorsets																						
EXT-002	Hinges (Jansen)	TBC	pair	From manufacturer's standard range to suit door requirements	Jansen	Polyester powder coated, to match door frame and leaf	-	-	-																				
EXT-003	Hinges (Sunray)	TBC	pair	From manufacturer's standard range to suit door requirements	Sunray	Polyester powder coated, to match door frame and leaf	-	-	-																				
EXT-004	Slide arm door closer	6	only	DC700A+DA /SS	Assa Abloy adjustable power size 3 to 6 door closer, delayed action, featuring Cam-Motion technology and guide rail	Polyester powder coated, to match door frame and leaf	Suitable intumescent pads to be installed on all fire-rated doorsets	Note 2																					
EXT-005	Swing door operator	1	only	Assa Abloy SW300	Assa Abloy SW300 swing door operator, IP20	Polyester powder coated, to match door frame and leaf	Finger trap protection device (flatscan sensor), battery backup unit, push/pull arm system as required, double acting kit as required.	Note 2																					
EXT-006	Narrow profile mortice lockcase (deadlatch)	14	only	4750-X00-X (backset and handing to be confirmed)	Assa Abloy 4750 Euro profile cylinder deadlatch, narrow profile, square faceplate, backset TBC.	Steel with corrosion-resistant plating, satin aluminium finish faceplate and strike plate.	Intumescent kit jacket where fire-rated	Note 1; compatibility of lockcase with door systems to be confirmed																					
EXT-007	Narrow profile mortice lockcase (deadbolt)	3	only	2200-XXX (bolt type and backset to be confirmed)	Assa Abloy 2200 Euro profile cylinder deadlock, narrow profile, square faceplate, backset TBC.	Steel with corrosion-resistant plating, satin aluminium finish faceplate and strike plate.	Intumescent kit jacket where fire-rated	Note 1; compatibility of lockcase with door systems to be confirmed																					
EXT-008	Intumescent kit (to suit narrow profile lockcases)	4	only	TBC	Assa Abloy intumescent kit to EI120 doors	Graphite	To suit fire-rated mortice lockcases	Note 1; compatibility of lockcase with door systems to be confirmed																					
EXT-009	Electric strike and strike plate	1	only	TBC	Assa Abloy	TBC	TBC	Specification to be confirmed subject to client security requirements	-																				
EXT-010	Espagnolette	3	only	555.466	Jansen espagnolette, travel 14mm, connecting thread M5	Face plate stainless steel ground and brushed	Fixings as required; compatible shoot bolts (as EXT-014 and EXT-015); espagnolette keeps (as EXT-016)	-																					
EXT-011	Shoot bolt (top)	3	only	555.418 (1.5m) or 555.499 (2.0m)	Jansen shoot bolt (top), ø10 x 1.5mm, M5 thread, with locking spring	Galvanised steel	To be compatible with espagnolette (as EXT-013)	Bolt lengths to suit size of doors																					
EXT-012	Shoot bolt (bottom)	3	only	555.419 (1.42m)	Jansen shoot bolt (bottom) ø10, M5 thread	Galvanised steel	To be compatible with espagnolette (as EXT-013)	Bolt lengths to suit size of doors																					
EXT-013	Espagnolette keeps	3	only	555.475	Jansen additional set for secondary leaf, use in combination with espagnolette	Stainless steel	Fixings as required; to be compatible with espagnolette (as EXT-013)	-																					
EXT-014	Shoot bolt set (Sunray)	4	pair	From manufacturer's standard range to suit door requirements	Sunray	Polyester powder coated, to match door frame and leaf	-	-	-																				
EXT-015	PROTEC2 deadlock cylinder	14	only	TBC	Assa Abloy PROTEC2, Euro profile	To match lockcase	-	Dummy cylinders to be supplied by contractor.	-																				
EXT-016	PROTEC2 90mm cylinder & turn	3	only	TBC	Assa Abloy PROTEC2, Euro profile	To match lockcase	-	Dummy cylinders to be supplied by contractor.	-																				

External kerbs are proposed in Altair Granite in blasted finish from Marshalls. See reference swatch below.

Within Wright & Wright's detailed drawings, this is denoted by specification code:

- Q10/120 Stone Kerbs

External paving is to the entranceway and footpath is proposed in Wienerberger Nero DF Waterstruck dutch clay paving. See reference swatch below.

Within Wright & Wright's detailed drawings, this is denoted by specification code:

- Q24/122 Conventional clay paver paving with bound base

Where required, the road will be regraded and refinished in grey tarmac to match the existing road finish.

Left to right:

Photograph of panel sample received.

Stockwell House, Phillips Tracey Architects, Lambeth, London



All grilles and copings are proposed to be painted in a PPC Charcoal Grey Colour (RAL 7021) as per the below swatch to match the proposed external door and window finishes.

Copings are proposed in pressed metal systems from Dales, finished in PPC Charcoal Grey (RAL 7021) to match the external window, doors, and grilles finish.

Within Wright & Wright's detailed drawings, this is denoted by specification code:

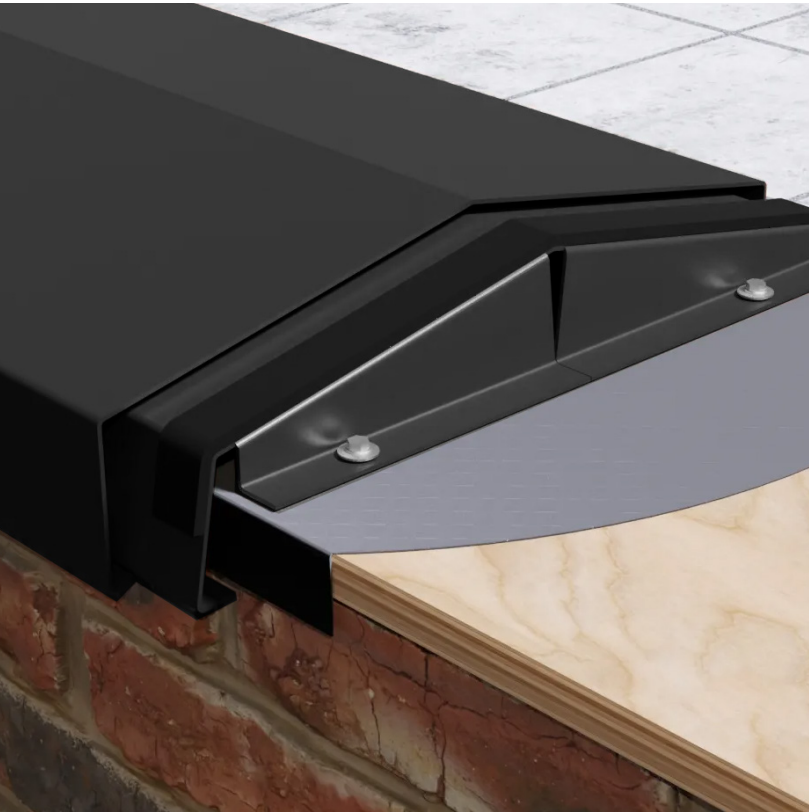
- F30/780

External Architectural metalwork decorative grilles are proposed in Orsogrill Stereo-4 from Lang + Fulton, finished in PPC Charcoal Grey (RAL 7021) to match the external window, doors, and grilles finish.

Within Wright & Wright's detailed drawings, this is denoted by specification code:

- L10/650A/B/C/D

Left to Right:
RAL 7021 sample
CGI of proposed coping system.
Photograph of similar arrangement of architectural metalwork grilles.



The soffit underneath the main entrance niche os proposed to be an Aluminium panellised soffit system from Dales, , finished in PPC Charcoal Grey (RAL 7021) to match the external window, doors, and grilles finish.

Left to Right:

RAL 7021 sample

Photograph of proposed aluminium soffit system.

