



10. Compartmentation

Fire Strategy Legend	
■	30min FR Separation - NEW
■	60min FR Separation - NEW
■	30min FR Separation - EXISTING Existing walls to provide 30 minutes fire resistance - survey & repair as required
■	60min FR Separation - EXISTING Existing walls to provide 60 minutes fire resistance - survey & repair as required
■	FD30 Door - NEW FD30s indicates smoke seals are required.
■	FD60 Door - NEW FD60s indicates smoke seals are required.
■	FD30 Door - EXISTING FD30s indicates smoke seals are required. Refer to schedule for remedial work required.
■	FD60 Door - EXISTING FD60s indicates smoke seals are required. Refer to schedule for remedial work required.
■	Room Occupancy Cell quantities are based on the occupancies shown and these must not be exceeded.
■	900 x 1400mm Wheelchair Refuge
■	Door on hold open
▲	Final exit Directional escape signage shown on plan. Final Exits to be agreed with RSCA on site. Fire escape signage will follow the format type as per MEP specification or as N15.
■	Circulation
■	Circulation - Escape Stair
■	Areas of Special Fire Hazard
—	Extent of Fire Compartment - boundary to be 60mins fire resisting construction.
—	30/15 ceiling lift cavity barrier Specification: P10432A
—	60/60 ceiling lift cavity barrier Specification: P10432B
—	60/60 smoke and fire curtain Specification: L20510A
—	30/30 smoke and fire curtain Specification: L20510B
Compartment Sizes	
MB Ground Floor Area = 1986m ²	
• Compartment GA = 657m ²	
• Compartment GB = 748m ²	
• Compartment GC = 580m ²	
MB First Floor Area = Below 800m ²	
• No further compartmentation required	
MB Second Floor Area = 1425m ²	
• Compartment ZA = 689m ²	
• Compartment ZB = 737m ²	
MB Third Floor Area = 978m ²	
• Compartment 2A = 810m ²	
• Compartment 3B = 365m ²	
MB Fourth Floor Area = Below 800m ²	
• No further compartmentation required	



Existing external route alongside the building provides an alternative escape route from basement level and from external staircase 5. The route leads to the ground floor exit, see ground floor plan for exit gate to this external route. Building boards here required 30min fire resistance up to 1100mm a/f.

External glazing to be upgraded to meet the requirement of 30min resistance between 0 - 1100mm a/f for external escape route.

External glazing to be upgraded to meet the requirement of 30min resistance between 0 - 1100mm a/f for external escape route.

External glazing to be upgraded to meet the requirement of 30min resistance within 1000mm of external fire escape.

External glazing to be upgraded to meet the requirement of 30min resistance between 0 - 1100mm a/f for external escape route.

Existing staircase between basement and ground does not exit to outside and so does not form part of vertical escape strategy.

No refuge provided to lift at this level as final exits straight to outdoors are provided.

OUTSIDE PROJECT SCOPE

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REV	DESCRIPTION	DATE
P03	Revised as Cloudb Client Comments	01/09/24
P02	Stage 4 Tender Issue	12/04/24
P01	Stage 4 Tender Issue	22/01/24



CLIENT
Thomas's London Day Schools

PROJECT
Thomas's College - Main Building

DRAWING TITLE
MB - Fire Strategy Plan - Basement Floor

SCALE @ A0: 1:100

DRAWING NUMBER	REV
1714 IID A XX DR A-1600 P03	

Fire Strategy Legend

- 30min FR Separation - NEW
 - 60min FR Separation - NEW
 - 30min FR Separation - EXISTING
 - 60min FR Separation - EXISTING
 - FD30 Door - NEW
 - FD30 Door - EXISTING
 - FD60 Door - NEW
 - FD60 Door - EXISTING
 - Room Occupancy
 - 900 x 1400mm Wheelchair Refuge
 - Door on hold open
 - Final exit
 - Circulation
 - Circulation - Escape Stair
 - Areas of Special Fire Hazard
 - Extent of Fire Compartment - boundary to be 60mins fire resisting construction
 - 30/15 ceiling loft cavity barrier
 - 60/60 ceiling loft cavity barrier
 - 60/60 smoke and fire curtain
 - 60/30 smoke and fire curtain
- Compartment Sizes**
- MB Ground Floor Area = 1986m²
 - Compartment GA = 657m²
 - Compartment GB = 748m²
 - Compartment GC = 580m²
 - MB First Floor Area = Below 800m²
 - No further compartmentation required
 - MB Second Floor Area = 1426m²
 - Compartment ZA = 689m²
 - Compartment ZB = 737m²
 - MB Third Floor Area = 378m²
 - Compartment ZA = 610m²
 - Compartment ZB = 368m²
 - MB Fourth Floor Area = Below 800m²
 - No further compartmentation required



850mm clear width required from this door opening.

(Door requires handling/relocating to open with direction of escape)

Protected corridor provided at first floor to omit the need for staircase 7 to be used as a means of escape. External windows do not need to be upgraded to protect external staircase and occupancy of external escape route is maximised.

With only one exit, occupants will always be limited to a max. of 60 total in this area.

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60min smoke & fire curtain no longer required here as staircase can now be lobbied with revised layout.

Installing door will not satisfy H&S here with clash on staircase landing. 60min fire smoke curtain to be installed as agreed with the engineer's strategy.

Existing staircase between basement and ground does not exit to outside and so does not form part of vertical escape strategy.

With only one exit, occupants will always be limited to a max. of 60 total in this area.

Existing heritage doors important to the building's listing will remain opening inwards. These will be fitted with fire saving door mechanism that on activation of the alarm will open doors inwards and keep them open so there is no obstacle to escape.

Lockers in corridors are acceptable with fire engineer's strategy and according to BS 6859. With advice of BS100 in metal, lockers in corridors will be metal (limited combustibility)

Stair 4 - Existing opening to be widened to provide 1050mm clear width for final exit.

Existing door critical for safe operations for catering. Provide 60min fire smoke curtain to protect staircase 4 in event of a fire. To be discussed with FEI/RBCA

Existing heritage doors (important to the building's listing) will remain opening inwards. These will be fitted with a fire saving door mechanism that on activation of the alarm will open doors inwards and keep them open so there is no obstacle to escape.

Stair 3 - Reception desk less than 10m² will be acceptable. No other furniture fire load to be placed within staircase

Area to be used for tray collector/trolley storage at perimeter but kept free and clear for use as an alternative evacuation route by occupants from cafe and dining rooms.

No cross corridor door is provided as this would cause significant harm to key area within Listed Building. This is an existing condition which is not made any less satisfactory. The double height space within the corridor is understood to provide additional time for escape before the corridor is fully affected by smoke.

Door to have clear width 850mm or greater.