

OCCUPANCY CALCULATIONS

The following information is based on guidance extracted from

“Fire Safety Risk Assessment in Large Places of Assembly”

under the

Regulatory Reform (Fire Safety) Order 2005.

(Available to download from www.gov.uk/government/publications/fire-safety-risk-assessment-large-places-of-assembly)

The occupancy figure for any building is based on the lesser of the two following calculations: the number of people who may safely reside in the premises based on floor space factors detailed in the *Building Regulations* and included in the table below; and the width and capacity of the exit routes to allow them to escape safely.

FLOOR SPACE FACTORS

TYPE OF ACCOMMODATION	m ²
Standing Areas, Bars without seating	0.3
Assembly Halls, Dance floors, Concert events	0.5
Dining Rooms, Seated Lounge/Bar, Restaurants	1.0
Exhibition Halls laid out with stands	1.5

Only calculate capacities based on the main function space and take care not to include stairs, exit routes, toilets, plant rooms etc.

Where you have fixed seating then the maximum numbers of people in the Hall, Bar or Restaurant will be known from the number of seats provided. If you are providing temporary seating then this may be limited by the maximum numbers that the escape routes can accommodate.

WIDTHS OF ESCAPE ROUTES AND EXITS

Minimum width for an escape route should ideally be 1050mm but in any case not less than 750mm and where wheelchair users are likely to use it, not less than 900mm.

Exit capacity is calculated on the basis of allowing 5mm for each person for each exit, however the largest exit (or exits if they are close together) must be discounted as they may be

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unavailable due to the fire. Then add together the number of persons who can safely use the remaining available exits.

An occupancy limit of 60 persons will apply where only one exit exists and 60 persons is the limit for an exit where an exit door opens inwards (unless that door is fastened open).

AUDITORIUM

Capacity is 1977 based on fixed seating capacity – If Arena seating is removed overall capacity must not exceed 1977 persons.

ROYAL HALL

Capacity is 998 based on fixed seating capacity – If Grand Hall seating is removed overall capacity must not exceed 998 persons.

QUEENS SUITE

Escape Route Width:

Entrance 1 & 2 – 2000mm +2000mm (Largest Exit)

Exit 1 & 2 – 1700mm + 1700mm

Escape Route Capacity is 680 persons.

Floor Space - Exhibition Capacity is 400 persons.

KINGS SUITE

Escape Route Width:

Entrance 1 & 2 (KS1) – 1700mm +1700mm (Largest Exit) Exit – 1600mm

Escape Route Capacity is 320 persons.

Floor Space - Exhibition Capacity is 280 persons.

HALL A

Escape Route Width:

Entrance (A1) – 1500mm

Majestic Garden Exit (A3) – 2100mm

Service Road Exit (A4) – 2200mm

Hall B Exit (A5) – 1800mm + 1800mm (Largest Exit)

Escape Route Capacity is 1,160 persons.

Floor Space – 1, Exhibition Capacity is 1,067 persons.

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HALL B

Escape Route Width:

Hall A Exit (B1) – 1800mm + 1800mm

Hall E Staircase Exit (B2) – 2100mm – Final Exit 1500mm

Service Road Exit (B3) – 2100mm

Escalator Link Exit (B4) – 1600mm + 1600mm – Final Exit 1400mm Hall C Exit (B5) – 1800mm + 1800mm (Largest Exit)

Escape Route Capacity is 1,720 persons.

Floor Space – 1, Exhibition Capacity is 1,200 persons.

HALL C

Escape Route Width:

Hall M Exit (C1) – 1600mm + 1600mm

Hall B Exit (C2) – 1800mm + 1800mm (Largest Exit)

Escalator Link Exit (B4) – 1600mm + 1600mm Final Exit 1400mm Service Road Exit (C3) 2100mm

Kings Road Exit (C4) – 2200mm

Escape Route Capacity is 1,780 persons.

Floor Space – 1, Exhibition Capacity is 1,200 persons.

HALL D

Escape Route Width:

Entrance – 1500mm + 1500mm

Springfield House Exit – 1600mm

Queens Suite Exit – 1700mm + 1700mm (Largest Exit)

Service Road Exit – 1600mm

Escape Route Capacity is 1,240 persons.

Floor Space – 1, Exhibition capacity is 667 persons.

STUDIO TWO

Escape Route Width:

Entrance (G5) – 1800mm + 1800mm (Largest Exit) Springfield Avenue Exit (G1) – 1900mm

Stair and Lift Tower Exit (G2) – 1800mm

Service Road Exit (G3) – 1300mm

Service Road Exit (G4) – 1300mm

Escape Route Capacity is 1,260 persons.

Floor Space – 1, Exhibition Capacity is 1,000 persons.

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STUDIO ONE

Escape Route Width:

Entrance (H1) – 1800mm + 1800mm (Largest Exit)

Stair and Lift Tower Exit (H2) – 1800mm

Upper Forecourt Exit (H3) – 2200mm

Hall H Foyer Exit (H4) – 1700mm + 830mm

Escape Route Capacity is 1,306 persons.

Floor Space – 1, Exhibition Capacity is 1,134 persons.

HALL M

Escape Route Width:

Entrance (M1) – 1600mm + 1600mm + 1600mm (Largest Exit)

Royal Hall Exit (M2) – 800mm

Hall C Exit (M3) – 1600mm + 1600mm

Kings Road Exit (M4) – 1700mm

Kings Road Exit (M5) – 1700mm

Escape Route Capacity is 1,480 persons.

Floor Space – 1, Exhibition Capacity is 1,000 persons.

HALL Q

Escape Route Width:

King's Road Entrance – 1960mm

King's Road Exit (Q7) – 1600mm

Springfield Avenue Exit (Q6) – 1600mm

Workshop Exit (Q3) – 1600mm

Tower 2 Exit (Q2) – 1600mm

Tower 1 Exit (Q1) – 1600mm

Catering Area Link Way Exit (KS3) 1900mm + 1900mm (Largest Exit) Tower 5 Exit (Q9) 1600mm

Escalator Link Exit (Q8) – 1600mm + 1600mm – Final Exit 1600mm

Escape Route Capacity is 2,632 persons.

Floor Exhibition Capacity is 2,000 persons.