



EXIT CAPACITY CALCULATIONS

DOCUMENT CONTROL

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INTRODUCTION

The following guidance has been used to determine the maximum capacity of each of the areas of the venues:

- BS:9999 Fire safety in the design, management and use of buildings – Code of Practice
- Purple Guide to Health Safety and Welfare at Music and Other Events
- Guide to Safety at Sports Grounds (Green Guide) 6th Edition, Sports Ground Safety Authority
- Best Practice Guide - Safe Use and Operation of Temporary Demountable Fabric Structures, MUTA

ESCAPE TO FREIGHT ISLAND

Freight Island Courtyard

Available exit capacity:

Park Gate	1,443
Gatehouse	1,836
	3,279

Less exit capacity required by exits leading into the Courtyard:

Bleachers	560
Boulevard	731
Concourse Stage Right	472
Concourse South Side	472
U+I Engine Room	69
	2,304

Total Exit Capacity	975
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No exit has been discounted as the Courtyard is designated a place of relative safety and poses a low fire risk. Furthermore, in the event one of the exits is unavailable due to fire, it would be possible to exit through the Freight internal area.

Within the Courtyard demise, there is a marquee, the Plant Room. The maximum exit capacity of this space has been determined as **731 persons** following the MUTA Best Practice Guide. This capacity must be included in the total capacity of the Courtyard.

Where an event is taking place in Concourse the maximum capacity of the Plant Room must be reduced to **260 persons** to accommodate the emergency exits leading into it.

Freight Island Internal Areas

Available exit capacity:

Bleachers	560
Boulevard (Excluded)	731
Patty Queen	609
Total Exit Capacity	1,169

The Boulevard emergency escape leading to the Courtyard has been discounted as the largest available emergency exit.

This calculation gives a maximum exit capacity for Freight Island of **2,144 persons**.

DEPOT MAYFIELD

Concourse & Ticket Hall – Entrance through DD's

Available exit capacity:

DD's - 50% open (Excluded)	2,194
Concourse Arch 1	944
Concourse Arch 4	944
Stage Right	472
South Side	472
Total Exit Capacity	2832

The DD's emergency escape leading to Baring Street has been discounted as the largest available emergency exit.

Depot Only – Entrance through the Yellow Doors

Available exit capacity:

Yellow Doors open (Excluded)	2,694
Arch A	1,416
Arch B	1,416
Arch C	1,416
Arch E	416
Total Exit Capacity	4,664

Under this configuration a minimum emergency exit width of 5.1m must be maintained through the open Yellow Doors.

Capacity can be increased by utilising emergency exits in Concourse & Archive. There must be a reciprocal reduction in the exit capacity from those spaces.

Archive Only

Available exit capacity:

Arch 8 Shutter (Excluded)	1,111
Arch 9 Shutter	1,111
Arch 10	944
Total Exit Capacity	2,055

Capacity can be increased by utilising emergency exits in Depot. There must be a reciprocal reduction in the exit capacity from this spaces.

Multi-Room Layout

Available exit capacity:

DD's - 100% open (Excluded)	2,500
Concourse Arch 1	944
Concourse Arch 4	944
Stage Right	472
South Side	472
Yellow Doors - Closed	1,277
Arch A	1,416
Arch B	1,416
Arch C	1,416
Arch E	416
Arch 8 Shutter	1,111
Arch 9 Shutter	1,111
Arch 10	944
Total Exit Capacity	11,939

Maximum capacity of the Depot Mayfield events space limited to 9,999 under the current venue Premises Licence and cannot be exceeded.

North Side Area:

Available exit capacity:

Star & Garter Gate	2,886
Gate 1	3,936
Gate 2	3,936
Gate 3	3,936
Pedestrian Gate	444
Total Exit Capacity	15,138

No exit has been discounted as the North Side Area is open air and poses a low fire risk so is designated a place of relative safety.

Emergency Exit List

Exit Name:	Location:	Leading To:	Exit Width:	Escape Capacity:	Calculation Method:
Park Gate	Courtyard	Baring Street	2.2m	1,443px	Green Guide, 8mins emergency egress time
Gatehouse	Courtyard	Baring Street	2.8m	1,836px	Green Guide, 8mins emergency egress time
Plant Room	Courtyard	Courtyard	1 x 1.8m, 2 x 1.5m = 4.8m	731px	MUTA Best Practice Guide
DD's	Ticket Hall	Baring Street	Open - 2 x 4.5m = 9.0m 50% - 4.5m & 2 x 1.7m = 7.9m Closed – 2 x 1.7m = 3.4m	2,500px 2,194px 944px	BS:9999 - Risk Profile: B1, 3.6mm/px
Bleachers	Freight Island	Courtyard	2.3m	560px	BS:9999 - Risk Profile: B2, 4.1mm/px
Boulevard	Freight Island	Courtyard	2 x 1.5m = 3m	731px	BS:9999 - Risk Profile: B2, 4.1mm/px
Patty Queen	Freight Island	Ticket Hall	2.5m	609pc	BS:9999 - Risk Profile: B2, 4.1mm/px
Arch 1	Concourse	North side	2 x 1.7m = 3.4m	944px	BS:9999 - Risk Profile: B1, 3.6mm/px
Arch 4	Concourse	North side	2 x 1.7m = 3.4m	944px	BS:9999 - Risk Profile: B1, 3.6mm/px
Stage Right	Concourse	Courtyard	1.7m	472px	BS:9999 - Risk Profile: B1, 3.6mm/px
South Exit	Concourse	Plant Room	1.7m	472px	BS:9999 - Risk Profile: B1, 3.6mm/px
Arch A	Depot	North side	3 x 1.7m = 5.1m	1,416px	BS:9999 - Risk Profile: B1, 3.6mm/px
Arch B	Depot	North side	3 x 1.7m = 5.1m	1,416px	BS:9999 - Risk Profile: B1, 3.6mm/px
Arch C	Depot	North side	3 x 1.7m = 5.1m	1,416px	BS:9999 - Risk Profile: B1, 3.6mm/px
Arch E	Depot	North side	1.5m	416px	BS:9999 - Risk Profile: B1, 3.6mm/px
Yellow Doors	Depot	Temperance St	Closed - 4 x 1.15m = 4.6m Open - 9.7m	1,277px 2,694 px	BS:9999 - Risk Profile: B1, 3.6mm/px
Arch 10	Archive	Temperance St	2 x 1.7m = 3.4m	944px	BS:9999 - Risk Profile: B1, 3.6mm/px
Arch 9 Shutter	Archive	Temperance St	4.0m	1,111px	BS:9999 - Risk Profile: B1, 3.6mm/px
Arch 8 Shutter	Archive	Temperance St	4.0m	1,111px	BS:9999 - Risk Profile: B1, 3.6mm/px
S&G Gate	North side	Neild St	4.4m	2,886px	Green Guide, 8mins emergency egress time
Gate 1	North side	Fairfield St	6.0m	3,936px	Green Guide, 8mins emergency egress time
Gate 2	North side	Fairfield St	6.0m	3,936px	Green Guide, 8mins emergency egress time
Gate 3	North side	Fairfield St	6.0m	3,936px	Green Guide, 8mins emergency egress time
Pedestrian Gate	North side	Fairfield St	1.6m	444px	BS:9999 - Continues from Depot Arch E