



TECHNICAL SPECIFICATIONS

FORD THEATRE

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AUDITORIUM SEATING

Capacity	797
With orchestra lift as a thrust stage or orchestra pit	751
Stalls	509
With orchestra lift as a thrust stage or orchestra pit	463
Balcony	288

PRODUCTION DESK POSITIONS

House seating can be removed to facilitate production equipment and operation. Any removal of seating must be confirmed prior to tickets going on sale.

Removable seating is only available in the following positions:

1. Centre stalls (Row J)
2. Rear stalls (Rows Q & R)
3. Balcony centre P.S.

ACCESS FOR SCENERY

A ramp leading up to the dock door is off Little Malop Street on the eastern side of the building.

Ramp max. vehicle height 4.4m (14'5")

Ramp Width 3.36m (11')

Scenery Dock Doors 1.18m (3' 10 1/2") above Ramp level

Scenery Dock Doors:

height - 3.6m (11' 9 1/2")

width - 3.5m (11' 6")

Scenery Dock to Stage:

height - 4.8m (15' 10 1/2")

width - 3.5m (7' 6 1/2")

FIRE SAFETY

All scenery and staging elements must be adequately flame proofed.

No scenery/staging elements are permitted to obstruct the operation of the Fire Curtain.

DIMENSIONS

PROSCENIUM

Width 12.13m (39' 9 1/2")

Height 7.96m (26' 1 1/2")

STAGE DEPTH

Front of stage to setting line 1.27m (4' 2")

(Stage edge to pro opening)

Depth from front edge of stage to back wall

12.81m (41' 0 3/8")

STAGE WIDTH

Wall to wall 26.64m (87' 4 3/4")

O.P. from centre 15.5m (50' 10 1/4")

P.S. from centre 11.14m (36' 8 1/2")

P.S. from centre to hand flies 10.45m (34' 3 1/2")

STAGE SURFACE

Rake - Nil

Material - Timber 3 cm (1 1/4") Masonite covered

Masonite width - 17.364m (57') equal on centre line

Wings - concrete

All flush

STAGE HEIGHT

To underside of grid 18.49m (60'8")

Under fly galleries 8.5m (27' 11")

Clear space under fly galleries 7.285m (23' 11")

Loading Bay 16.715m (54' 10")

STAGE TRAP

Located centre downstage position

(4.2m from front edge of stage)

WIDTH BETWEEN FLY GALLERIES

18.545M (60' 9 1/2")

ORCHESTRA PIT

1. Orchestra Lift (Crescent shaped)

Electrically operated by Acme thread screws, the orchestra lift may be used in a number of ways.

- (a) as forestage at stage level
- (b) as additional two (2) rows of seating at auditorium level - 1.3m (3'4 1/2") below stage level (standard position)
- (c) as an Orchestra Pit - 2.44m (8'0") below stage
- (d) as a platform self locking at any position between Orchestra Pit level and Stage level

Dimensions:

Radium front, wall to wall straight across in 13.88m (45'6 1/2")

Straight back - 12.66m (41'6 3/8")

Width at centre - 2.7m (8'10 3/8")

Width at walls - 1.57m (5' 1 3/4") on a slight slope

Designed for 50 musicians

2. Under Stage Section:

Width 1.8m (5' 10 3/8")

Length 12.165m (39'11")

Height at the back 2.085m (6' 10")

Height at the front 2.25, (7' 4 3/4")

MACHINERY

FLY BARS

41 single purchase counter-weight sets, with 300 kg barrel weight limit evenly distributed.

Operated from stage floor prompt side

PANORAMA BARS

2 single purchase counter-weight sets, with 300 kg barrel weight limit evenly distributed.

Operated from stage floor prompt side

LOWERABLE BOX BOOMS

Lowerable box booms driven by electric chain hoists, with 200kg weight limit evenly distributed

BATTENS IN USE

Fly Batten 1 House curtain teaser
Fly Batten 2 House Curtain
Handline operated to fly (standard position)
Electrically operated to draw, controlled in parallel
from P.S. O.P., lighting control and projection
booth

Fly Batten 12 - cinema screen (electrically driven)

Lighting Bars: Fly Battens with sub circuit patching above the
bar. All looms running off O.P. end of bar to flyfloor for
patching.

Fly Batten 5 - Lighting Bar 1
Fly Batten 11 - Lighting Bar 2
Fly Batten 16 - Lighting Bar 3
Fly Batten 25 - Lighting Bar 4
Fly Batten 30 - Lighting Bar 5
Fly Batten 41 - Lighting (CYC) Bar 6

BATTENS

Battens - Pipe 0.04cm (1 1/2") I.D. 5.2cm (2") O.D.
Batten length: 17.7m (56')

ACCESS EQUIPMENT

JLG 20DVL – self propelled elevating work platform
Snorkelift TV-25 – elevating work platform

STAGE DRAPES

LEGS

Five (5) pair 9.6m drop x 4.6m wide (31'6" x 15'1")
Material: Black wool 528g/sq.m
Slight Fullness

BORDERS

Five (5) of 3.0m drop x 17.7m wide (10' x 56')
Material: Black wool 528g/sq.m
No Fullness

TABS

Three (3) pair 9.6m drop x 17.7m combined width
(31'6" x 56') with overlap for French action
Material: Black wool 528g/sq.m

CYCLORAMA

One (1) white 9.26m drop x 16.35m wide

(30' 4 1/2" x 53' 7 1/2")
Material: White Filled Shark Tooth

SCRIMS

Two (2) black/white cotton scrims are available.
9m x 16m

HOUSE TABS

Brown Woollen weave on tormentor wires to
cover Proscenium opening, with fullness.
Can be French action or flown

HOUSE TAB BORDER

Top Masking for house curtain, same material
as house curtain.

STAGE MANAGEMENT CONTROL SYSTEM

Paging and programme relay to all backstage areas
Talkback communication to all production areas
(1 x Clear-Com MS-232 2-channel Main Station)
(8 x Clear-Com RS-501 beltpacks & headset)
F.O.H. Announce Mic (see Sound Web design below)
Cue light system
CCTV monitoring of stage
PABX phone
LED real time/stop clock
Dimmable desk lamps

SOUND FACILITIES

LOUDSPEAKER SYSTEM

The main speaker system is a JBL AE design and is configured as a Left/Centre/Right system. Additional speakers are used for front fill and rear delay on both levels, as well as a box seat fill.

Flown in the centre cluster position are two (2) AM6200/64 and one (1) AL6115 to cover the balcony with one (1) AM4200/64 underneath for stalls coverage. Also flown in a L & R configuration for the balcony is one (1) AM6315/64 each side. Mounted each side of the proscenium arch for L & R stalls coverage is one (1) AM6315/95 speaker. A further two (2) ASB6128 speakers are flown for the ultra low frequency component of the system.

Front fill comprises of six (6) Tannoy CPA5 compact loudspeakers recessed into the front edge of stage. Tannoy CPA5 speakers are also used for the rear delay. Six (6) speakers are used for rear of stalls coverage and a further six (6) speakers for the upper balcony.

DRIVE AND CONTROL

Amplification and the drive/control system are housed in single rack in the patch room. Amplification is provided by 4 x Powersoft 4004 and 1 x Powersoft DIGAM 7000 for the subwoofers providing a total of 13,170 watts . Two BSS SoundWeb processing devices provide the drive, time align and control.

MIXING CONSOLE

Allen & Heath ML3000
40 Channels, VCAs, LCR panning

PLAYBACK / PROCESSING

1 x YAMAHA SPX 990 Multi FX
1 x YAMAHA REV 500 Reverberator
2 x dbx 2231 Graphic Equalisers
1 x dbx 1046 4 Ch Compressor/Limiter
1 x SONY CDP-D11 CD player
1 x MARANTZ PMD 502B Cassette Deck

SPEAKER TRIM HEIGHT

(Bottom of speaker to stage height)
Flown Left and Right 5450mm
Centre cluster 6060 mm

SOUNDWEB DESIGN

SYSTEM INPUT MODES

The SoundWeb has been programmed with different input modes. Using the remote control, a system-input mode can be selected. The following modes are available:

- a) L & R ROCK: 2 Input: Left, Right with Centre, Sub and Delays derived from L & R.
- b) LCR: 3 Input: Left, Centre, Right with Sub and Delays derived from L & R.
- c) LCR SUB: 4 Input: Left, Centre, Right, Sub with Delays derived from L & R.
- d) L, R MUSICAL: 2 Input: Left, Right with Centre, Sub and Delays derived from L & R.
- e) MUSICAL: 4 Input: Mono for Radio mics (with Haas Delay), Mono no Front Fill for floor mics (with Haas delay), Left No Front Fill, Right No Front Fill for Orchestra
- f) LCRSD: 5 Input: Left, Centre, Right, Sub and Delays.
- g) SEPERATE: 7 Input: Flown Left, Flown Right, Prosc. Left, Prosc. Right, Centre, Sub, Front Fill and Delays.

STAGE MANAGER PAGING

The Stage Manager is able to make announcements through the Sound System at anytime via direct input to the SoundWeb via the input on the rear of the remote. The flip & key switch on the SM console switches the route switch on the main matrix in unit one via the contact closure inputs.

CABLING INFRASTRUCTURE

60 tie lines are available between the stage and all control points.

XLR connectors are used throughout.

Ethernet runs are also available.

AUDIO POWER

30 AMP 3 PHASE

(Located in the Scene dock cage)

LIGHTING FACILITIES

MAIN LIGHTING CONTROL DESK

Strand 520 Genius Pro Console (OS v2.4e)
C/w 200 Channels, Tracker and Networker software, IPAQ
wireless remote and two monitors

DMX RETICULATION

Three (3) runs of DMX are available to areas further detailed on the lighting plan. Runs A and B are used for venue lighting, run C is available for other equipment.

DIMMERS

Analogue dimmers:

40 x 2kw, 76 x 5kw and 4 x 10 kW dimmers

Analogue to digital conversion via LSC linklights.

See below for detail on hardwired dimmers.

Total analogue dimmers: 120

Digital dimmers:

132 x 2.5kw dimmers

Eleven (11) APC Solution 12 dimmers are distributed around galleries and lighting positions. See lighting plan for further detail.

Total digital dimmers: 132

TOTAL AVAILABLE DIMMERS: 252

FRONT OF HOUSE LIGHTING BRIDGES

Bridge No. 1

Patch Panel No.1 Dimmers 1-26 hardwired

2 x APC 12 Channel dimmer racks

14 x Sub Patch Circuits (Numbered 15-28)

Bridge No. 2

1 x APC 12 Channel dimmer rack

14 x Sub Patch Circuits (Numbered 1-14)

Patchable to Patch Panel No.1 (Bridge No.1)

Also, each Bridge has one (1) special effect circuit operated from S/M Panel P/corner.

FRONT OF HOUSE BALCONY BAR

8 x Sub Patch Circuits (Numbered 49-56)

Patchable to Patch Panel No.1 (Bridge No.1)

Also there are two (2) special effects circuits operated from S/M Panel P/corner.

STAGE

On Stage there are 6 lighting bars.

Lighting bars 1 – 5 have:

20 x 10amp Sub Patch Circuits

4 x 20amp Sub Patch Circuits

Lighting bar 6 has:

12 x 10amp Sub Patch Circuits

6 x 4-way outlets (hardwired to 10kw dimmers)

All Bars Patched to O.P. Fly floor Patch Panels by multicore looms

BOX BOOMS

Box booms are provided on P.S. and O.P. Booms are lowerable to assist with rigging.

Each box boom has:

8 x Sub Patch Circuits

Patchable to Patch Panel No.1 (Bridge No.1)

DIMMER PATCH PANELS

O.P. FLY FLOOR

Hardwired to analogue dimmers:

Dimmers 27 - 44 (5kw)

Dimmers 45 - 53 (5kw)

Dimmers 77 - 80 (10kw)

Dimmers 81- 120 (2kw)

Digital dimmers:

48 x Dimmers (2.5kw) – wall mounted

24 x Dimmers (2.5kw) – hand rail mounted

P.S. FLY FLOOR

Hardwired to analogue dimmers:

Dimmers 60 - 63 (5kw)

Digital dimmers:

24 x Dimmers (2.5kw) – hand rail mounted

UPSTAGE WALL P.S.

Hardwired to analogue dimmers:

Dimmers 56 - 59 (5kw)

UPSTAGE WALL O.P.

Hardwired to analogue dimmers:

Dimmers 54 - 55 (5kw)

Dimmers 70 – 72 (5kw)

FLOOR WELLS P.S.

Hardwired to analogue dimmers:

Three (3) Dip Traps

Dimmers 67-68-69 (5kw)

Each dip trap has one outlet for each dimmer

FLOOR WELLS O.P.

Hardwired to analogue dimmers:

Three (3) Dip Traps

Dimmers 64-65-67 (5kw)

One (1) Dip Trap (Upstage)

Dimmers 73-74-75-76 (5kw)

LUMINAIRE ALLOCATION

30 x 575w	Profiles ETC Source 4 Ellipsoid	26 °
6 x 575w	Profiles ETC Source 4 Ellipsoid	36 °
4 x 1 kW	Profiles Berkey Colortran	40 °
14 x 575w	Profiles Zooms ETC Source 4	15 ° - 30 °
40 x 1 kW	Fresnels + B/Door Strand Cantata 6"	
9 x 2 kW	Fresnels + B/Door Robert Juliet 8"	
8 x 800w	Ground row 4-way Selecon	
6 x 1250w	Cyc Colortran Domino Quad	
2 x 1 kW	Follow Spots Robert Juliet Korrigan 1200HMI	

(Refer standard lighting layout for position and dimmer allocation)

POWER

Location - upstage P.S. 3 Phase Power Outlet 100Amp.

Hardwire (fitting can be supplied)

1x30 amp 3 phase. OP wings downstage floor level

1x30 amp 3 phase. OP fly floor

(Refer standard lighting layout for additional 3Phase locations)

PROJECTION EQUIPMENT

Two (2) V.I.P Pro 35mm Projectors, with optical sound track and electric change over.
6000 foot spools maximum

One (1) Fumeo 16 mm Projector, magnetic and optical sound track. 6,000 foot spool with anamorphic lens optional.

Perforated Screen – motor driven

Electric rewind, bench mounted.

Splicing block etc.

OUTSIDE BROADCAST FACILITIES

Theatre Location: In Orchestra Pit on O.P
(Television left)

Facilities: 40 x L3 Cannon Receptacles - Females
2 x BNC Video Connectors
1 x 250v AC Socket

External Location: Access from Aitchison Place

Facilities: 40 x L3 Cannon Receptacles - Male
2 x BNC Video Connectors
1 x 5 Pin 30 Amp. Outlet (plug type WPT 330 ring grip)
2 x 3 Pin 15 Amp (socket type WSC 115)

Coaxial Cable: AC wiring is run separately to ducting
Lockable cable trap on panel

Land Lines: 4 x Land Lines via Telecom/Optus

DRESSING ROOMS & FACILITIES

All dressing rooms and facilities are shared between the Ford and Blakiston theatres

DRESSING ROOM – NUMBERS AND FACILITIES

ROOM NO.	BASINS	W.C's	SHOWERS	MAKE-UP MIRRORS
1	4			20
2	5			25
3	3			13
4	2			4
5	2			4
6	2			4
7	2	1	1	2
8	2	1	1	2
9	1	1	1	2
10	2	1	1	2
11	2	1	1	2
12	1	1	1	2

One Men's W.C. and Shower Block comprising;

- 1) x 5 Showers
- 2) x 3 Basins
- 3) x 2 W.C.'s

To facilitate Dressing Rooms 1 to 6 and Green Room

One Women's W.C. and Shower Block comprising;

- 1) x 5 Showers
- 2) x 3 Basins
- 3) x 3 W.C.'s

To facilitate Dressing Rooms 1 to 6 and Green Room

Wardrobe Room, dimensions 5.7m x 4.2m comprising;

- 1) x 1 Tumble Dryer (coin operated)
- 2) x 2 Automatic Washing Machines (coin operated)
- 3) x 2 Washing Troughs - and Walk-in Drying Room
- 4) Wardrobe Room has 2 paging speakers - one from each theatre

Also available: x 2 Ironing Boards

x 1 Iron

x 2 Work Tables

x 1 Large Coffee Urn

ADDITIONAL EQUIPMENT

Equipment detailed in this Technical Specification is included in the venue rental and therefore, not subject to additional cost. GPAC has a large inventory of equipment available for hire. Should you require additional equipment, please contact the Venue Operations department on (03) 52251233. Any additional equipment is subject to availability and additional hire charge.

Listed below is a summary of equipment available for hire:

PORTABLE STAGING

20 @ Metric 1m x 2m
8 @ Imperial 8ft x 4ft

Heights available:
200mm, 400mm, 600mm, 800mm, 900mm & 1000mm
Carrying Capacity 750kg/m²
Rails and treads to suit.

AUDIO VISUAL/COMMUNICATIONS

Wireless intercom system
16 x 12 Front & Rear projection screens
12 x 9 Front & Rear projection screens
Control rack including SmartFade and playback
Video/Data projectors – short/long throw lens
Monitors, cameras and standard conference equipment

LIGHTING & EFFECTS

Strand & Selecon profile spots
Bytecrafft portable dimmers
Followspots, fresnels & ground row units
Smoke and Haze machines

AUDIO

Selection of Shure, Beyer, AKG, Sennheiser microphones
Shure UC Wireless systems – WL93, Beta 53 heads & Beta 87
Powered Mackie SRM 450 speakers
Mini disc, CD and tape players

PIANOS

Yamaha 9' Concert Grand Piano
Yamaha 6' Baby Grand Piano
Yamaha upright

ORCHESTRA EQUIPMENT

Music stands, scone lights and chairs
Conductor's podium, stand and chairs