TECHNICAL INFORMATION



Visiting companies should in all cases check with either the Head of Technical and Maintenance, Chief Electrician or Stage Manager to ensure the information contained herein is up to date and correct. At certain times some equipment detailed in this document may be temporarily unavailable.

Nathan Reynard, Head of Technical and Maintenance Tel 0191 2442591

Email nathan.reynard@theatreroyal.co.uk

Steve White, Stage Manager Chris Winn, Chief Electrician.

Tel 0191 2442501 Tel 0191 2442526

Please inform us immediately if your show floor is raised in excess of 200mm.

Line arrays must be split and hung in the Technical Boxes.

The stage is raked 1:24. Please ensure your design allows for this.

AUDITORIUM

Maximum capacity 1247.

Seating on four levels as follows:

Stalls: 506 seats (reduces according to pit layout – see below).

Grand Circle: 252 seats.
Upper Circle: 231 seats.
Gallery Amphitheatre: 66 seats.
Gallery: 194 seats.

Orchestra pit:

On three lifts able to accommodate up to 75 musicians. Seating in the stalls can be varied as follows:

With a full-sized orchestra pit of 3 lifts (rows A - F removed) 11m x 8.1m

With medium sized pit of 2 lifts (rows A to D removed) 11m x 6.3m

With a small sized orchestra pit (row A and B removed) 11m x 4.4m

With just Row A removed. 11m x 3.7m

391 seats.

431 seats.

473 seats.

A sound control position in the rear stalls removes up to 30 seats in S, T & U rows, dependent on space required.

Wheelchair accessible spaces:

Up to 8 positions.

Updated: Jan 23 Page 1 of 6

STAGE

Proscenium Stage

Raked of wooden construction

1:24 Rake

Setting line Taken from line of safety curtain

Depth from setting line exc. Back Dock 11.40m Depth from riser to setting line 1.00m

Back Dock 15.50m wide x 5.04m deep x 7.580 high

Proscenium Dimensions 9.01m wide x 9.53m high

Height to permanent Proscenium Pelmet @ 6.90m

Height to underside Safety curtain @ 7.30m

P.S. 4.38m O.P. 7.50m Wina depth Height to fly floor P.S. 7.90m O.P. 7.7m

Height to pin-rail 9.3 m both sides

Height of SR dock 6.2m Height of SL dock 7.4m Height of back dock 6.8m

Flys

Working fly floor stage right

Distance between fly floors

51x Double purchase counterweight sets

1x Single purchase for House Tabs

Pelmet on winch set

Length of flying bar 10.94m extending out to 11.9m

Flying height @ Bar 1 17.200m Flying height @ Bar 52 16.700m Max. Lifting Capacity. 400Kg.

STAGE EQUIPMENT

Drapes Width x Drop

5x Black Masking Borders 11.5m x 4m drop 5x Black Legs (Pairs) 4m x 7.7m drop 1x Black Full Backing 12m x 9m drop 1x pair Black Half Tabs 7.4m x 8m drop

All the Drapes above are without fullness

Other

3x Liftket 500Kg chainhoists in FOH roofspace above pit area.

2x Liftket 250Kg chainhoists in FOH roofspace above each proscenium.

1x 1000Kg manual chainblock on beam above Dock Doors.

1 Harlequin Black Dance Floor to cover performing area of 15m x 15m

1 upright piano for use in rehearsal room and stage

All rigging to be undertaken in conjunction with Theatre Royal in-house rigger. Contact lee.bowman@theatreroyal.co.uk

GET-INS AND GET-OUTS

Loading doors to street on Shakespeare Street. Ramped access from Street down to Stage. Door Dimensions. 3.935m high x 2.995m wide 2x Ra'alloy ramps 1m wide x 4m long 750Kg SWL each

Page 2 of 6 Updated: Jan 23



11.90m

DRESSING ROOMS



14 Dressing rooms with 31 showers and 2 bathrooms can normally accommodate up to 81 performers. All dressing rooms have televisions showing Freeview and a show relay picture.

Please refer to our **Backstage Floor guide** for full plans of the Dressing Rooms.

Room number:	Standard Capacity
1	1
2	1
2 3	2
4 5	2
5	6
6	5
7	8
8	4
9	12
10	8
11	8
12	6
13	8
14	6

All floors served by 16 person / goods lift.

N.B. Dressing room 8 has been risk assessed as unsafe for use by children due to the unsuitability of Fire Escape arrangements.

Due to traces of asbestos contained in the artex applied to some of the ceilings backstage, any drilling or other building work to these ceilings, whilst very low risk, is not permitted without the written authorisation of the Director of Operations.

There is a backstage accessible toilet and shower room and a platform lift from Stage Door to Stage for wheelchair users. There is no specified accessible dressing room – please contact the theatre for further information.

Free Wi-fi is available backstage.

BAND ROOMS

2x Band rooms. Can also double as studio for sound, & has audio, video, comms and speaker lines installed.

WARDROBE, LAUNDRY & WIGS

Wardrobe, Wigs and Laundry rooms available. 2x JLA washing machines

2x JLA drier

1x Ironing board

1x Steam iron

Facility for 2x touring washers or driers.

REHEARSAL ROOM

The Rehearsal Room (13.7m.x 9.1m) is situated BOH. It is used by the Theatre Royal's Learning department and must be kept clear. Availability can be checked and bookings requested by contacting Kim Hoffman, Head of Creative Engagement, on 0191 244 2500.

learning@theatreroyal.co.uk

Updated: Jan 23 Page 3 of 6



LIGHTING EQUIPMENT

Control Room Consoles Auditorium / Designers

Console

2x ETC Gio@5 ETC Gio

24576 intensity channels 2048 intensity channels

398x 3Kw ETC Sensor+ Dimmers 40x 5Kw ETC Sensor+ Dimmers

24x 3Kw Sine-wave Dimmers (separate universe)

73x 3Kw ETC Sensor+ Relays

8x Double ETC Sensor+ relay modules.

FRONT OF HOUSE equipment (All permanently rigged)

12x Source4 15/30° 750W profiles in Gallery Lighting Slips.

12x Source4 14° 750W profiles on Gallery Circle Front.

12x Source410° 750w profiles on Gallery Bridge.

10x Source4 15/30° 750W profiles on Upper Circle Front.

Please note our FOH positions require some access involving harness use.

We do not have a Proscenium boom position but have technical facilities in the auditorium boxes closest to the stage for lighting and sound equipment. Please contact the Chief Electrician for further information.

Conductor's spots

For those productions that require a conductor, the theatre carries two spots, one either side of the Gallery slips to light the conductor's face and hands.

STAGE LIGHTING EQUIPMENT

12 x Strand Harmony F 1kW Fresnel

12 x Strand Cadenza 2kW PC

62 x Source4 750w heads with the selection of 3x 19°, 12x 26°, 33x 36°, 28x 50° fixed lenses, and 12x 15/30° or 12x 25/50° zoom lens tubes.

60x Thomas type Parcans – please discuss lamp allocation in advance

10x Strand Prelude F

36x 1kW CCT Starlette Fresnels.

10x Strand Coda 500/4 floods.

27x Chauvet Colorado 1 LED pars.

7x Chauvet OvationCyc1 FC Pro LED floods.

FOLLOW SPOTS

2x 1.8kW HMI Robert Juliat Victors with Peltor headsets.

Both centre of Gallery circle front. N.B. Not enclosed.

Additional followspot positions must be arranged in advance. Please contact the Head of Technical and Maintenance.

LX RIGGING

8 x lighting boom bases: height dependent on rigging positions.

3 x 7'6" 6 way internally wired bars to Socopex.

Several 4'6" Seekol floorstands and bench-bases.

3 x 2.5m powerdrive stand.

Updated: Jan 23 Page 4 of 6

EFFECTS MACHINES



1 x JEM ZR22 DMX smoke machine 2 x HazeBase Pro hazers.

ALL SPECIAL EFFECTS MUST BE REQUESTED AND APPROVED IN ADVANCE. Consumables for these machines will be chargeable

Houselights are LED and require a separate universe of DMX. Merge files for GrandMA and ETC consoles can be provided.

POWER SUPPLIES

Stage Left Dock area on auxiliary power panel

240V single phase, 50 hertz onstage and throughout building 240V single phase supply, 63A, 32A Ceeform 415V 3PNE 63A, 32A Ceeform 240V 125A single phase x 2 Ceeform 415V 3PNE 200A per phase Powerlock x 2

Stage Left Fly floor

200 amp 3 phase Distribution panel fed from one of the Powerlock supplies on stage left panel.

240v single phase supply, 32A Ceeform x 2

240v single phase supply, 16A Ceeform x 2

415V 3PNE 125A, 63A & 32A Ceeform

415V 3PNE 200A per phase Powerlock

Total loading must be no more than 200amp per phase

Stage Right

200A 3 phase Distribution.
240v single phase supply, 32A Ceeform x 2
240v single phase supply, 16A Ceeform x 2
415V 3PNE 125A, 63A & 32A Ceeform
415V 3PNE 200A per phase Powerlock
Total loading must be no more than 200amp per phase

Grid

415V 3PNE 63A Ceeform fed from DSR

SOUND EQUIPMENT

Control

48ch. Avid Venue D-Show Profile mixing desk. 2 x CD Player 1x Mac-mini running CueLab.

Main P.A

8x d&b Yi7 or Yi10 on the Proscenium.

Subs: 2x d&b B2s, 4x d&b Q1s.

Foldback: 4x d&b E12s. Frontfills: 4x d&b E6s. Sidefills: 6x d&b E3s.

Delays: 14x d&b E0s. 3x d&b 10S-Ds in the Gallery. Permanently rigged

Amps: 11x d&b D6 or 10D for main PA, foldback and delays and 2x d&b D12 for Subs

Also 3x Yamaha P3500.

Microphones: A large selection available.

Updated: Jan 23 Page 5 of 6

We have a comprehensive wiring system for surround sound, but have no dedicated amplifiers or speakers for this.



Music stands

12x RAT stands with light fitting.
1x Conductor's stand with 2x light fittings.

Communications

4 Channel RTS ring intercom 10 wired & 7 HME radio headsets 18x Cuelights (First 8 fixed position on Cue desk, next 10 patchable) FOH and M.D. Video 4x Colour monitors.

Access

Large Tallescope – 7.5m maximum platform height. Mains powered Genie AWP 25. Various Zarges ladders.

Please inform us immediately if your show floor is raised in excess of 200mm or your set has not been designed with consideration for a 1:24 rake.

Please note due to the narrow Proscenium opening we do not support Prosc Booms.

We have a 250kg motor for line array pick-ups either side of the auditorium. Due to the narrow Proscenium opening line arrays cause significant sightline issues and must be split and hung in the Technical Boxes.

Updated: Jan 23 Page 6 of 6