



Theatre Royal Technical Specification



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Nottingham Theatre Royal Technical specifications

<u>Address</u>

Theatre Royal Theatre Square Nottingham NG1 5ND

<u>Staff</u>

Managing Director	Robert Sanderson
Technical Director	Dave Guy
Stage Manager	Ian McCarthy
Assistant Stage Manager	Kenny Shelvey
Head Flyman	Shaquille Kerr
Head of Lighting and Sound	Michael Donoghue
Electrical Technician	Bob Allen-Betts
Theatre Technician	Matthew Day
Talanhana Numhara	

Telephone Numbers

Administration	0115 989 5500
Administration Fax	0115 947 4218
Stage Door	08458720711
Stage Door Fax	0115 979 9145
Box Office	0115 989 5555
Box Office Fax	0115 950 3476
Company Managers Office	08458720773

Seating Capacity

Stalls Dress Circle Upper Circle Balcony		
Total	1186	
Auditorium T	– Deduct desk – Deduct reads – Deduct stra Pit – Deduct	12 Seats 15 Seats 6 Seats per Side. 32 Seats (2 Rows)

Small Orchestra Pit – Deduct32 Seats (2 Rows)Large Orchestra Pit – Deduct90 Seats (5 Rows)

Please inform the theatre at the earliest opportunity for the removal of any seats from the seating plan.

Orchestra Pit

Small Orchestra Pit (46 sq.m [495sq.ft]) – Rows A & B Removed Large Orchestra Pit (75 sq.m [807sq.ft]) – Rows A – E Removed Both formats include 21sq.m [226sq.ft] under 3m deep stage overhang. The theatre owns 16 lit RAT stands. + Double MD Stand.





<u>Stage</u>

<u>Access</u>

Get in: - Loading bay on Goldsmith Street. Room for two trailers to back inside building for unloading.

CAUTION Due to tramlines outside building parking for trailers is strictly limited. Priority is given to the Concert Hall as their loading is on the street. There is <u>No</u> parking for private vehicles outside the building at any time. Parking of private vehicles is in various nearby public car parks.

Stage Specifications

The Theatre's Stage floor is natural strip hardwood and can not be painted under any circumstances. It is however a working surface and therefore companies are more than welcome to screw floors/scenery into the floor.

Stage Rake	1:2	25	
Proscenium Opening Point to Point	8.5	52m	(27' 11")
Proscenium Opening Column to Column	n 9.2	29m	(30' 6")
Proscenium Height	8.5	50m	(27' 11")
Swaged Pelmet, Centre Point	6.0)3m	(19' 8")
Proscenium Boom Height	7.2	26m	(23' 10")
FoH Truss Width	8.7	70m	(28' 6")
Setting Line (Back edge of Iron) to Bar 5	59 11	.96m	(39' 3")
Grid Height Down Stage	18	.90m	(62')
Grid Height Up Stage	18	.40m	(60')
Fly Bar Length	12	.55m	(41' 2")
Fly Bar Diameter	50	mm	(2")
Distance Between Fly Floors	13	.90m	(45' 7")
Height Under Fly Floors Down Stage	7.9	97m	(26' 2")
Height Under Fly Floors Up Stage	7.5	55m	(24' 9")
Stage Right Scene Dock Area	9.80m x 1	13.00m (32	' 2" x 42' 7

Rear Stage Scene Dock Area

6.30m x 17.30m (20' 8" x 56' 9")

59 Single purchase counterweight sets at 200mm (8") centres operated from stage left Fly Floor.

Maximum Loading 450Kg per Set.

Please note during fit up and get out a minimum of 3 in-house stage crew are required due to the location of the loading gallery when flying bars are used

Note: - Bars 48 & 53 are Up & Down bars.

House Tabs	Motorised swaging curtain operated from DSR control panel (On C/W Bar 1) and can not be removed
Safety Curtain	Operated from DSR control panel
House Pelmet	Swaged Pelmet, average height 7.20m (23' 8")



Masking & Drapes

4x Black Serge Borders	44' x 12'
3x Black Serge Deep Border	44' x 18'
4x Pairs of Black Serge Legs	12' x 26'
1x Black Serge Full Tabs	44' x 24'
3x Pairs Black Serge Split Tabs	25' x 30'
2x Pairs Gold Pleated Split Tabs	25' x 24'

Assorted hard black masking. Assorted stage braces and weights. Assorted lengths of conduit. Assorted lengths of scaffold pipe.

Note: - The theatre does not have a cyclorama in stock.

Access Equipment

The theatre owns two tallescopes. Large 4.60m (15') to 7.50m (24' 6") Small 3.9m (12' 10") to 5.9m (19' 6")

250lb (115Kg) S.W.L. 250lb (115Kg) S.W.L.

We also own the following ladders

- 1 x 3 Tread Small A-Frame
- 1 x 7 Tread Medium A-Frame
- 1 x 8 Tread Medium A-Frame
- 1 x 12 Tread Tall A-Frame
- 2 x 10 rung Zarges ladders with maximum working height 6.90m
- 2 x 12 rung Zarges ladders with maximum working height 8.60m

<u>Lighting</u>

Control

ETC Eos desk with 2x10 fader wing and 2x 4 way DMX gateways.

ETC lon desk (Back-Up)

Strand 520i console 800 channels 800 attributes

Cat5 tie lines to various positions.

8x DMX tie lines from control room to SR touring dimmer position.

3 DMX lines are available from control box, patchable to points on the flyfloors and stage.

The control box is situated in the upper circle position.

Dimming

174 in-house ETC Sensor dimmers (154 x 3k & 20 x 5k)
52 Situated FOH and a maximum of 122 on stage, (including patches).
The stage right fly floor is the main position for overhead plugging.
16 x 10/20Amp Independents at various points around the stage and auditorium, switched manually from the control room.
63A 1Ø to 20x15A Sockets

Mains Supplies

In addition to house dimming we have 4 mains supplies to the stage area.

S.R. Wing 200A 3Ø 63A 3Ø	Powerlock (Camlock adapters available) Ceeform Socket (1Ø Socket Also Available)	Normal LX Feed Normal Sound Feed
U.S. Dock		
500A Supply	v Split into: -	
500A 3Ø	Bus Bars (Lugs)	
315A 3Ø	Powerlock	
63A 3Ø`	Ceeform Socket (RCD Protected)	
63A 3Ø`	Ceeform Socket (Non RCD Protected)	
32A 3Ø`	Ceeform Socket (RCD Protected)	Normal Motor Feed
S.R. Fly Floo)r	
630 30	Centerin Socket (10 Socket Also Available)	

63A 3Ø Ceeform Socket (1Ø Socket Also Available)

63A 1Ø distro to 20x15A Sockets

Lantern Stock

Permanent FOH Rig

20x	Source 4 14º	750W
20x	Source 4 19º	750W
8x	Source 4 36°	750W

Stage Stock

27x	Source 4 bodies	750W
4x 19	°, 2x 26°, 24x 36°, 12x 50° Lens tu	lbes
8x	Minuette 17/36°	650W
12x	Cantata F	1200W
36x	Patt 743	1000W
8x	Patt 828	2000W
80x	Par 64	1000W
10x	Par 16 Birdies	50/75W
6x	Iris 4	4x1000W
1x	Iris 2	2x2000W
4x	Coda 1	1x1000W
16x	4 Way S-Type Batten Units	8x150W
4x	4 Way Groundrow Batten Units	8x150W
2x	R&J Victor Followspots	1800W (Si

1800W (Situated to rear of balcony)

5x 18 Way I.W.B.1x Iris 4 Flood Bar I.W.B.

23m throw to Tab Line.

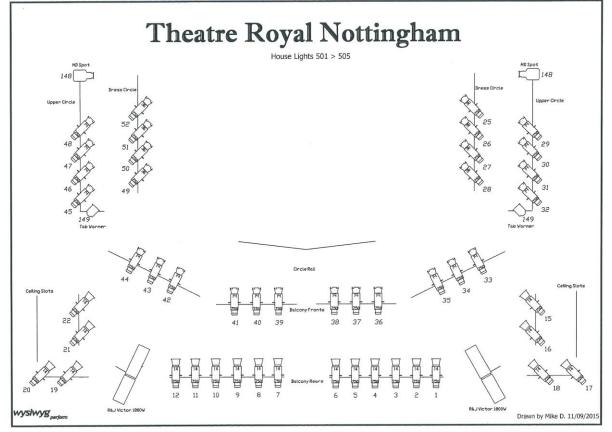
Various bench bases, 4'6" Stands

Large selection of Lee and Rosco gels.





<u>FoH Plan</u>



FoH Truss Position and Prosc. Rigging

Prosc. Booms

Trussing is installed vertically on both sides of the proscenium from stage level, up to the ceiling of the auditorium. It is split into 3 main sections. Dress, Upper and Balcony, each with a weight loading of 500Kg. There is a section of Ladder beam from stage floor to the Dress Circle truss with a loading of 150Kg and a section between Dress and Upper Circle with a loading of 100Kg. The Balcony Truss has a head block on top with a double braked motor rated at 400Kg for rigging / hanging Line Array or suspending the FoH Truss.

FoH Truss

The FoH truss (Prolyte H40R) is 8.7M wide and is hung from the motors on top of the Prosc. Booms from custom end brackets.

It has a maximum loading of 724Kg. This may be a centre point load for PA or evenly distributed over the width of the truss.

It is 40cm from the front edge of the stage.

Maximum truss height is 10.17m from stage level.

Please note there is no access to the FoH truss when it is at height.

<u>Sound</u>



Soundcraft MH3 48+4ch 8 VCA, 8 Group, 12 Aux, Desk (Back of stalls Mix Position) Soundcraft Delta 24ch 4 Group, 4 Aux Desk (Upper Circle Control Room Position) 2x Yamaha MG10/2 Mixers (Portable Small Mixer)

Outboard

- 2x Klark Technik DN360 Dual Graphic EQ
- 2x Sony MDS-E12 Minidisc Recorder
- 2x Denon C-620 CD player
- 1x Yamaha SPX 2000 Effects Unit
- 1x Yamaha SPX 1000 Effects Unit
- 2x Drawmer DL241 Dual Compressor
- 1x Drawmer DS404 Quad Noise Gate
- 1x BSS Soundweb 9088i
- 1x BSS Soundweb 9008ii

Speaker System

Full d&b FOH System Comprising of

2x	Ci9	(Stalls)
6x	Ci6	(Dress, Upper and Balcony)
4x	Ci7 Sub	(2 at Stalls, 2 at Balcony)
6x	E0	(Stalls Delays)

All powered by Epac amplifiers D/S/R running ROPE All Cabling on Socapex with breakout boxes

Stage Effects/ Foldback System

- 6x Martin CT2 Speakers
- 2x Amcron 600 Amplifiers
- 2x EV SX 200 Speakers
- 1x EV P1250 Amplifier
- 1x Bose 101 Speaker

All cabling on NL4 via Breakout boxes or Rack Front

Microphones

- 3x Crown PCC 160
- 6x Beyer M201
- 4x Shure SM57
- 1x Shure PGDMK6 Drum Kit (Containing 1xPG52 (Kick), 4xPG56 (Snare/ Toms), 2xPG81 (OH/Instruments)
- 3x Sennheiser MD421
- 6x MTR DI-3 DI Box
- 1x MTR DI-2 Dual DI Box
- 4x AKG C747 Mic Kit

Various Shure SM58/ AKG 451 shared with Concert Hall

Various Boom/Short Mic Stands, Stand Clamps etc.



Multicores and Cabling

- 1x 48Ch 36/12 50M Multicore loomed with 16 amp mains, 2 x BNC and 1 x CAT5 for Stalls Mix Position
- 1x 32Ch 28/4 50M Multicore
- 2x 8Ch 20M Stage Multicore Tails to Box
- 2x 8Ch 10M Stage Multicore Tails to Box

Various Lengths of Mic Cabling available Various jack leads and XLR adapters available Up to 16 Channels of Mic Line from Stage to Control Room XLR Stage patches available across stage

Radio mics

It is the responsibility of the Visiting Company to ensure that all radio equipment, except that provided by the venue, such as radio microphones and two-way radios are properly licensed. A copy of all applicable radio licenses should be available. The venue will refuse the use of radio equipment that cannot be shown to be licensed, or license free. For information on licensing please contact JFMG below http://www.jfmg.co.uk/

4th Floor, UK House, 2 Great Titchfield Street, London, W1W 8BB, 020 7299 8660

<u>Touring</u>

We are quite happy for touring companies to utilise our equipment where and if required.

The mixing position for touring desks is at the centre rear stalls.

The Multicore run is 27m to the front of stage and 50m to O.P. Wing (Normal Amp and Power Position)

Speakers are normally pros hung or in most cases the side boxes are held off the seating plan until after the fit up.

Communications

Nottingham Theatre Royal has a very narrow S/L wing and main dressing room entrance is from S/R therefore the SM desk is normally housed in the O.P. Corner rather than P.S. but, the desk can be moved to the P.S. position if necessary.

<u>Q-Lites</u>

The theatre operates a totally patchable 12ch ASL TS120 Cuelight system, which is built into the stage management desk, with TS10 Outstations.

Comms

The theatre operates a single ring Techpro system, capable of handling up to 16 outstations. We hold in house 15 headsets and beltpacks, which can be patched in at most areas in the stage and auditorium, as well as comms built into the stage management desk.

For touring comms systems the system can be patched to most points in the stage and auditorium on 3pin XLR patches.



Prompt desk

There is switchable show relay to all dressing rooms and greenroom, and paging to all areas including corridors and stagedoor.

The desk incorporates 2 switchable 17" monitors allowing 2 video-input feeds per screen, with patchable video distribution situated in the comms rack. We have HiRes colour and IR. cameras feeds to the desk for FoH pictures. We also have 2 spare ways of BNC to the dress circle front should you wish to use your own cameras or run in MD monitors / projectors.

Hearing Assistance & Audio Description

The theatre does not operate a loop system as they can interfere with equipment within the building.

Installed in the theatre is a Sennheiser IR System for use with dedicated headsets and neck loops. This is normally connected to the show relay feed, but can also be used as a dual system sharing show relay and audio description. The theatre has a large stock of headsets and facilities for audio describers. There is good IR coverage in all levels, but due to the nature of the theatre's design the extremities of the auditorium are out of the radiators range.

Please contact the theatre sound department or access officer on 0115 989 5500 for further details.

Backstage Facilities

There are 16 Dressing rooms at the Theatre situated in the following areas		
Basement	4 Chorus Rooms (Dr. Room 13-16)	
Ground Floor	6 Principal Dressing Rooms (Dr. Room 1-6)	
First Floor	6 Dressing Rooms (Dr. Room 7-12)	

All Dressing Rooms have washing & shower facilities. The following Dressing Rooms have toilets 1-6, 10-11.

The Band Room and Green Room are situated in the Basement.

Wardrobe is situated in the basement (with lift access) and has industrial washer and dryer facilities. In addition the following mains supplies are available in the laundry room.

2x16A1ØCeeform Socket2x13ASockets

Plumbing points are also available for a toured washing machine.

Please note dogs are only allowed backstage if performing, and with the appropriate licensing documents

Due to a number of dressing room keys going amiss / not returned, a replacement charge of £50 per item will be levied for any backstage keys not returned to the stage door.