

N O T T I N G H A M

arts theatre

TECHNICAL SPECIFICATIONS AND EQUIPMENT LISTS

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Nottingham Arts Theatre does not guarantee that all or any of these facilities or equipment are available or suitable for the purposes of the visiting company. A visiting company should in all cases check with the Technical Manager for the Arts Theatre 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.

PLEASE NOTE: All visiting companies should submit plans of rigging/flying, LX and other technical requirements to College Street Technical Services CIC at least 14 working days before arrival, for approval. College Street Technical Services CIC reserve the right to make amendments as appropriate. The decision of the technical managers is final, and will be made in accordance with Health & Safety regulations. College Street Technical Services CIC remain responsible for the technical aspects of the building while visiting companies are present.

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WORKING REGULATIONS

It is essential that the following regulations and restrictions are noted by all visiting companies. Please ensure that any relevant personnel are made aware of the following:

Working Time Regulations

Please note that in accordance with Working Time Regulations 1998, an 11 hour break between working shifts must be scheduled for all members of staff.

Furthermore, suitable breaks must be scheduled within shifts to ensure the health and welfare of all staff. If in doubt with regards to any aspect of the working schedule please contact the Technical Management. All schedules must be agreed in advance.

Noise at Work Regulations

Please note that in accordance with the Noise at Work Regulations 1989, the Control of Noise at Work Regulations 2005, and for the benefit and care of all staff and members of the public, Nottingham Arts Theatre and College Street Technical Services CIC reserves the right to monitor and, if necessary, limit the sound levels for any given performance.

Loading and Unloading Guidelines

The Nottingham Arts Theatre Code of Practice for loading and unloading is included in this document (Appendix A).

It is the responsibility of the visiting company to ensure that all relevant staff are made aware of this Code of Practice and that all relevant activities are carried out in accordance with the Code.

UNLOADING AND PARKING RESTRICTIONS

LOAD-IN:

Bar doors

Single width door. 780mm x 2000mm

Main doors

Double doors 1000mm wide, but tight turns negate the use of these doors for long pieces of set.

Please refer to stage dimensions and technical plans for more information, and contact the Technical Manger to discuss your specific requirements.

A site visit is recommended for companies who have not previously worked in the Arts Theatre. Visits should be arranged in advance of any production arriving at the theatre.

PARKING:

The Theatre does not have any parking spaces. Local parking for cars is metered and time limited. The nearest multi-storey car park is The Victoria Centre Car Park or Lace Market Car Park. More parking information can be found on the City Council's website <https://www.nottinghamcity.gov.uk/parkingpermits>

Light Goods Vehicles (vans/cars etc) can be reversed up to our bar door. Larger vehicles have to be unloaded in George St.

All vehicles will need to be promptly removed once (un)loaded, as traffic wardens regularly patrol the area.

AUDITORIUM

No alterations can be made that would affect the normal seating capacity of the auditorium without prior discussion with the theatre management.

Maximum capacity 270

267 seats plus 3 wheelchair spaces
Plus 4 house seats held not for sale

ORCHESTRA PIT

The orchestra pit has a curved frontage, with one exit/entrance from the under-stage corridor. The pit is in two sections: half is under-stage, half is covered by removable stage decks and forms the forestage when covered.

Full Depth	9.6m wide x 1.45m deep
Rear under-stage section	7.4m wide x 1m deep x 2m high

Height from Stage to Auditorium level	0.95m
Height from Stage to Pit floor Level	2.01m

Orchestral equipment:

The theatre can provide chairs for the orchestra, however we do not have any music stands or lighting for the pit during shows.

STAGE

Due to the historic nature of the Arts Theatre buildings, the stage is not full width all the way to the back wall. The last few meters of stage are cut off on stage left by an external wall. This area is usually used as storage for dance towers and excess masking flats but can be made use of for entrances behind sets, or sets can extend back into it provided they are not full stage width. If this space is used for production purposes, the stored items will need to be rehoused in the stage wings, which will need to be allowed for in scenery storage plans. Please see the technical plans for more details.

Proscenium

Proscenium Opening	7.9m
Proscenium Height	4.5m

Depth of Stage (excluding upstage narrow stage / full usable width)

Upstage edge of pros to usual cyc location	4.5m
Front of stage to usual cyc location	7.1m

Wings/Stage Left

Pros to wall	3.0m
Stage centre to side wall	6.9m
Height under fly floor	3.3m

Wings/Stage Right

Pros to wall	4.5m
Stage centre to side wall	8.5m
Height under fly floor	3.26m
Height under beam	3.0m

Upstage Narrow Stage

Depth	1.23m
Stage centre to stage Left wall	2.84m

The stage is a non-sprung wooden floor without rake.

Cross-over is usually via the under-stage. If a fast stage-level crossover is required, please adjust your hanging plot accordingly.

FLYING AND RIGGING

Flying at the Nottingham Arts Theatre is a mix of manual hemp lines and hand winch bars. Although there are fly bars, there is no fly tower and so it is impossible to fly set or cloths out so that they can no longer be seen.

Grid Height	7.1m
Maximum bar height	6.5m
Length of bars	9m
Outside diameter of bars	48mm/2"
All hemp bars safe working load	50 kg
Winch bars safe working load	150 kg

Operation is from stage left, fly gallery level for lines 1-13, stage right for lines 14-16. House tab control is from SR wing / DSM position. All flying must be done under the instruction and supervision of College Street Technical Services CIC.

Below is the standard hanging plot for the Arts Theatre (remains subject to change). This will need to be restored on the get out of any show that changes any bar use.

Please consult with College Street Technical Services CIC prior to your show with any rigging or flying requirements.

Bar	Type	Use	Distance from pros
HouseTab	Fixed	House tabs (single speed motorised)	0.30m
Line 1	Hemp	Border	0.53m
Line 2	Winch	LX 1	0.82m
Line 3	Winch		1.10m
Line 4	Hemp	Border	1.48m
Line 5	Winch	LX 2	1.80m
Line 6	Winch		2.21m
Line 7	Hemp	Border	2.70m
Line 8	Winch	LX 3	3.04m
Line 9	Winch	LX 4 / Backlight	3.59m
Line 10	Hemp		3.70m
Line 11	Hemp	Border	3.93m
Line 12	Winch	LED Cyc Lights	4.20m
Line 13	Winch	White cyc (limit of full stage width)	4.46m
Line 14	Hemp	*Not full width	4.74m
Line 15	Hemp	*Not full width	5.30m
Line 16	Hemp	*Not full width	5.80m

STAGE EQUIPMENT

Soft Goods:

- 4 x Black borders
- 2 x Pair of half blacks (with fullness)
- 1 x Full black
- 1 x Full stage black gauze (sharkstooth)
- 1 x Full stage white filled gauze Cyclorama
- 1 x Full stage cross over track, Halls T60, rope pull to stage right
- 1 x Full stage swipe track, Halls T60, rope pull to stage right

Other:

- 2 x 5m x 2m BWS hard masking flats
- 6 x 5m x 1.5m BWS hard masking flats
- 4 x 2m x 1m staging decks, 200mm, 400mm, 600mm, and 800mm legs (finished deck height)

DRESSING ROOMS

There are 4 dressing rooms underneath the stage, accessed from stairs USL and USR as well as from the backstage corridor.

All dressing rooms have audio show relay from stage and calls from the DSM desk.

Both male and female toilets are accessed off the under-stage corridor.

Please be aware that there is no lift access back stage at the theatre; all levels are connected by stairs.

Dressing room 1:	8.0m ² approx Seats 5 people Basin
Dressing room 2:	16.5m ² approx Seats 12 people Lit mirrors Power sockets Basin
Dressing room 3:	12.5m ² approx Seats 10 people Lit mirrors Power sockets Basin
Dressing room 4:	8.5m ² approx Seats 6 people

LIGHTING

Please note, we have a maximum 63A 3phase supply for the lighting rig, please adjust your lighting plans accordingly.

The Nottingham Arts Theatre operates with a standard lighting rig to allow us to accommodate one off productions and music nights. This lighting rig will be in situ at the start of any production and needs to be returned to this state before the end of the final call of a show run. Please see technical plans for more details.

Please supply any show specific lighting plans to the Technical Manager at least 2 weeks before production load in date.

Console and dimmers:

ETC Puck running EOS software with programming wing – 1024 channels

72 x 2.4KW dimmers (63A 3phase supply) hardwired to sockets around the theatre.

3 x Hardwired IWBs movable between bars. Default positions shown on circuit plan.

2 x 6 way Socca IWBs available for additional bars.

24 x 2.4KW dimmers (32A 3phase supply) available on Socapex or 15A on SR fly floor.

Front of House Equipment:

Front of House Bridge (permanently rigged) (4 channels)

4 x Selecon Pacific 14°- 35° 600W zoom profile (space limited)

2 x 1200W Fresnel for tab warmers (permanently rigged) rear of auditorium

Additional Lighting Stock:

12 x Strand Cantata F 1200W Fresnel

12 x Strand Cantata PC 1200W PC

10 x Selecon Pacific 14°- 35° 600W zoom profile

4 x Selecon Pacific 23°- 50° 600W zoom profile

8 x Selecon Pacific 23°- 50° 1000W zoom profile

4 x Strand SL 23°- 50° 600W zoom profile

4 x ETC Source4 Jnr 575W zoom profile

4 x Martin Mac 700 Profile

4 x Martin Mac 700 Wash

4 x Martin Mac 250 Wash

12 x Martin Mac TW1

6 x Chauvet Colorado batten 72 tour LED Batten

8 x Chauvet ColorDash PARQuad 18 LED Wash Light

Various PAR64

4 x Shortnose PAR64

4 x Apollo Smart Colour scrollers with adjustable plates

4 x Apollo Smart Colour scrollers for PAR 64

6 x PAR16 birdies with dimmable transformers

Due to other commitments and ongoing repair and maintenance, not all stock can be guaranteed at any time. Please submit plans as soon as practicably possible to ensure that the stock you require is available.

Lighting Rigging Equipment:

2 x 1 ton rigging points in auditorium. 3m from pros arch, 9m between points. Usually rigged with 12m of Prolyte H40V truss. Loading tables can be found in Appendix B at the end of this document.

Trim height to clear FOH bridge fixtures but still ladder focusable – 6.8m

D-Rig arms
Standard boom arms
H floor stands
4 x tank traps

POWER SUPPLIES

SR wing:	63A 3phase Ceeform touring socket (usually powers in house sound and additional fly floor dimmers. 13A twin socket
SR fly floor:	63A 3phase hardwired to dimmers 13A twin socket
Control room:	3 x 16A Ceeform switched supplies for follow spots (single 16A circuit) 8 x 13A sockets
Auditorium sound position:	13A power fed from stage amp rack 32A single phase can be provided
Auditorium:	2 Single 13A cleaner sockets at ends of row D
SL wing:	Please note no power in this wing.

EFFECTS

1 x Le Maitre GForce3 smoke machine
1 x Le Maitre M.V.S hazer

USE OF ALL PYROTECHNICS/SPECIAL EFFECTS MUST BE APPROVED BEFORE USE as they may require alterations to fire and smoke alarm systems.

SOUND**FOH Speakers:**

2 x Nexo PS15R2 (auditorium)
2 x Nexo Alpha S2 (sub)
both driven by a NX4x4 amp

4 x D&B E3 (front fill), driven in mono by a D&B EPAC amp
2 x D&B C6 (centre cluster), driven dual mono (front/back) by a D&B D12 amp

Monitor Speakers:

4 x Logic System LM20 Active 15"/1.5" coaxial
processed by DBX Driverack 480
driven by MC2 e25 amps

2 x Logic System LS15 driven by MC2 MC1250 amp
(permanently rigged for stage foldback)

Additional speakers

4 x JBL Control 1
4 x Mackie SRM 150 personal monitor

Mixers:

1 x Yamaha M7CL48 (auditorium mix only)
1 x Yamaha MC124C 6ch mic, 2 stereo, 1 group, 2 aux

Mixing position is at the rear left of the auditorium.

Centre rear auditorium table can be provided and reached by the in house multicore with the removal of 16 seats from sale (N7-17, M7-16 and L7-17).

Playback:

1 x Tracking backup QLab 4 (Audio & Video) system running on Mac Minis, 8 output interfaces.

Optional 3.5mm stereo jack input

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Microphones:**Dynamics**

2 x Shure Beta 58a
 8 x Shure SM58
 4 x Shure SM57
 4 x Sennheiser e604
 1 x Sennheiser e602
 2 x Sennheiser e609

Condensers

1 x Shure Beta 91a
 2 x AKG C414
 10 x AKG SE300 bluelines with various capsules
 8 x Cardioid
 2 x Shotgun
 4 x Figure 8
 6 x Omni

DI

8 x BSS AR-133 Active DI
 2 x EMO single DI box
 2 x Behringer DI4000 4 way 1u rackmount DI

Availability of additional stock is subject to change – please contact Technical Managers with requirements prior to your show.

Radio Mics

1 x Sennheiser g1 Handheld radio mic

We can provide additional Sennheiser G3 radio mics up to 36 ways with headsets, lapels, or handhelds for an additional cost. Please contact the Technical Manager for more details

Audio Tie-Lines:

Patchable audio infrastructure based around 48 Sends and 16 Returns at all control positions (3pin XLR).

Infrastructure also includes the following (all patchable):

Speaker (NL4 Speakon)
 Video (BNC)
 DMX (5pin XLR)
 Cat5 Ethernet (Ethercon)
 sACN lighting control available

Assorted Microphone Stands

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Intercom:

Dual channel wired Tecpro intercom system

Altair master station at DSM desk

10 x single channel beltpacks with single muff headsets

1 x dual channel beltpack (at FOH sound position, PFL bus on channel 2)

2 ways of cue light

Show relay to backstage, upper rehearsal room, studio theatre, and greenroom.

Paging from DSR prompt corner to all backstage areas

AV Equipment:

fixed colour camera with full stage view

fixed b&w infrared camera with full stage view

fixed b&w infrared camera with full auditorium view

2 x movable b&w camera, suitable for conductor relay etc.

1 x 37" colour video monitor with unicol mount & pole

3 x 21" colour video monitor

Cameras feed into BNC patch system and distribution amplifiers.

APPENDIX A: Nottingham Arts Theatre: Code of Practice for loading/unloading and rigging.

Staffing

- The visiting company must ensure that a competent person is appointed to supervise the unloading and loading of the truck(s) or wagon(s).
- ALL crew will be competent, well rested at the beginning of the shift, and sober.
- ALL crew will follow Nottingham Arts Theatre requirements for Personal Protective Equipment and will wear protective footwear throughout any loading, unloading or rigging.
- Hard hats must be worn on stage whenever any fly bars are moving.
- There is a protective barrier system in place to restrict access to the stage to necessary crew whilst construction is taking place. These must be adhered to by all crew and company.
- Before any work is undertaken, all present crew/company must have a brief 'toolbox' safety introduction/talk with the house crew. This should take no more than 5 minutes and will cover basic health and safety requirements of the venue and fire procedures.
- Once full company arrive, and before any rehearsals can begin, a brief safety talk must be given by the crew to the company.
- Sufficient breaks must be scheduled. Technicians require a half hour break around lunchtime between 12:00-14:00 and a full hours break in the evening which CANNOT include the half before the show. If in doubt, please consult with the technical management.
- Sufficient crew must be provided or requested of Nottingham Arts Theatre in advance. If loading/unloading is deemed unsafe as a result of insufficient crew, Nottingham Arts Theatre and/or College Street Technical Services CIC reserves the right to delay any unsafe activity until such time as additional crew can be deployed.

Loading/unloading

- The visiting company will have ensured the truck is safely packed, with no dangerously balanced items at risk of falling and injuring any member of any crew. Ideally a plan of the truck, showing the distribution of items within the truck, will be provided in advance (or at least be carried by the supervising member of staff unloading the truck).
- The visiting company will have ensured that boxes, skips and flight cases are safely packed to avoid any unbalanced loads. Weight should be indicated on each item.
- The visiting company will provide any necessary lifting equipment (example: forklift truck with driver) in advance of their arrival (should there not be an adequate tail lift or ramp provided on their truck).

Reporting

- Any and all accidents MUST be reported immediately to a member of Nottingham Arts Theatre or College Street Technical Services CIC who will ensure that the relevant personnel are informed immediately, in order that all Health and Safety procedures can be followed.
- Near misses MUST be reported to the Technical Manager for Nottingham Arts Theatre, and to the visiting company's Technical Director / Company Manager.

APPENDIX B: Prolyte H40V Truss loadings

H40V - Allowable Loading																
SPAN		Uniformly Distributed Load		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS										SPAN
						Centre Point Load		DEFLECTION		Single Load Third Points Load per Point		Single Load Fourth Points Load per Point		Single Load Fifth Points Load per Point		
		UDL				CPL				TPL		QPL		FPL		
m	ft	kg/m	lbs/ft	mm	inch	kgs	lbs	mm	inch	kgs	lbs	kgs	lbs	kgs	lbs	total weight
2	6.6	1272,7	856.3	3	0.12	2545,3	5617.5	2	0.08	1272,7	2808.7	846,1	1867.4	636,3	1404.4	13,8
3	9.8	846,1	569.3	7	0.28	2538,4	5602.3	5	0.20	1269,2	2801.1	842,7	1859.8	634,6	1400.6	20,7
4	13.1	632,9	425.8	12	0.47	2056,6	4538.8	9	0.35	1265,8	2793.5	839,2	1852.2	632,9	1396.8	27,6
5	16.4	504,9	339.7	18	0.71	1639,0	3617.4	15	0.59	1229,3	2713.0	819,5	1808.7	631,2	1392.9	34,5
6	19.7	419,6	282.3	27	1.06	1359,5	3000.5	21	0.83	1019,7	2250.4	679,8	1500.3	564,2	1245.2	41,4
7	23.0	331,1	222.8	36	1.42	1158,9	2557.7	29	1.14	869,2	1918.3	579,5	1278.9	480,9	1061.5	48,3
8	26.2	251,9	169.5	47	1.85	1007,6	2223.7	38	1.50	755,7	1667.8	503,8	1111.9	418,1	922.8	55,2
9	29.5	197,6	132.9	60	2.36	889,1	1962.3	48	1.89	666,8	1471.7	444,6	981.1	369,0	814.3	62,1
10	32.8	158,7	106.8	74	2.91	793,6	1751.6	59	2.32	595,2	1313.7	396,8	875.8	329,4	726.9	69,0
11	36.1	130,0	87.5	89	3.50	714,9	1577.8	71	2.80	536,2	1183.4	357,5	788.9	296,7	654.8	75,9
12	39.4	108,1	72.8	106	4.17	648,7	1431.7	85	3.35	486,5	1073.8	324,4	715.9	269,2	594.2	82,8
13	42.6	91,1	61.3	125	4.92	592,2	1306.9	100	3.94	444,1	980.2	296,1	653.5	245,8	542.4	89,7
14	45.9	77,6	52.2	144	5.67	543,2	1198.9	116	4.57	407,4	899.2	271,6	599.5	225,4	497.5	96,6
15	49.2	66,7	44.9	166	6.54	500,3	1104.3	133	5.24	375,3	828.2	250,2	552.1	207,6	458.3	103,5
16	52.5	57,8	38.9	189	7.74	462,4	1020.5	151	5.94	346,8	765.4	231,2	510.2	191,9	423.5	110,4
17	55.8	50,4	33.9	213	8.39	428,5	945.7	171	6.73	321,4	709.3	214,2	472.8	177,8	392.5	117,3
18	59.0	44,2	29.8	239	9.41	398,0	878.3	191	7.52	298,5	658.8	199,0	439.2	165,2	364.5	124,2
19	62.3	39,0	26.2	266	10.47	370,3	817.3	213	8.39	277,7	613.0	185,2	408.6	153,7	339.2	131,1
20	65.6	34,5	23.2	295	11.61	345,1	761.6	236	9.29	258,8	571.2	172,5	380.8	143,2	316.1	138,0

1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg

- Loading figures only valid for static loads and spans with two supporting points
- Spans must be supported at each end
- If dynamic loads or wind loads are involved, or more supporting points are applied, contact a structural engineer or Prolyte Customer Service
- Loading figures are based on German DIN standards; to comply with BS 7905-2 / ANSI E1.2-2006 / CWA 15902-2, the loading data must be multiplied by 0.85
- The self-weight of the trusses has already been taken into account
- For spans longer than indicated and with a different loading setup use the KYLo program
- Prolyte Structures can create custom-made pieces on request



Mark approval certificate
No. 2246/04.
Test report No. 2245/04.
TUV certification only valid
for loading table above.

APPENDIX C: Circuit layout and standard LX rig (subject to change)

(available via email from College Street Technical Services CIC)

(Base LX showfile and patch (for ETC Eos) available as above)