

Arbroath Webster Theatre Technical Facts

Main Theatre

Auditorium

Two tiers face a separated proscenium stage with orchestra lift giving forestage and pit options.

Balcony:	Approx. 162 seats
Stalls:	Approx. 285 seats with forestage or pit Approx. 298 seats with no forestage or pit
Side Facing Stalls:	Approx. 20 seats per side
Overall:	Approx. maximum capacity 500 seats

Orchestra Pit

There is one pit lift which can be used for seating, as an extension of the stage, or as an orchestra pit.

Max. dynamic load:	3000kg (evenly distributed)
Max. static load:	7.5kN/m ²
Lift size:	8.9m wide x 1.5m deep (max) 1.1m deep (min)
Under stage pit:	9m wide x 2.4m deep

Get-In

Scene dock/stage approx. 1.4m above car park/loading bay

Adjacent stage door at car park level

Backstage platform lift (1.06m wide x 1.52m deep) from stage door level to stage level and lower ground floor (orchestra pit and dressing rooms)

1 No sliding acoustic door	- get-in to scene dock	- 1.8m wide x 3.0m high
1 No roller shutter door	- scene dock to workshop	- 1.7m wide x 4.8m high
1 No opening	- scene dock to stage	- 1.8m wide x 5.0m high

Backstage Accommodation

Lower Ground Floor: Bandroom/instrument store

Technical store

4 DR for 5 with WHB and shower

Male and female WC with WHB

Stage Level: Workshop/prop store with sink, washing machine and tumble dryer

1 DR for 1/2/disabled with WHB and shower

1 DR for 8/9

1 DR for 4/make up

Green Room with sink and fridge

Male, female and disabled WC with WHB

ARBROATH WEBSTER THEATRE TECHNICAL FACTS

Main Theatre

Stage

Structural Proscenium opening:	8.9m. wide x 4.8m. high
Depth from back of proscenium wall:	7.7m
Depth from back of proscenium wall to fixed stage front:	0.3m
Depth of orchestra pit lift (max):	1.5m
Depth including forestage (max):	9.5m
Orchestra lift travel:	stage level to stage level -2.4m
Stage centre line to stage left wall:	7.0m
Stage centre line to stage right wall: (beneath double purchase counterweight frame)	7.0m
Clear height beneath double purchase counterweight frame:	5.1m
Width between fly galleries:	10.6m
Height to underside of grid:	12.1m.
Clear height beneath galleries:	5.9m.

Variable proscenium black masking can reduce opening in height and width

Stage Floor

Stage surface 6mm oil tempered hardboard on 25mm ply

Dip troughs for temporary cables approx. 5.4m either side of centre line

ARBROATH WEBSTER THEATRE TECHNICAL FACTS

Main Theatre

Stage Suspensions

Double purchase wall frame (stage right) designed for 1 limited travel single purchase and 26 double purchase cross stage counterweight sets

Set 1: limited travel single purchase set (house tabs) approx. 150mm downstage of set 2

Sets 2–27: double purchase counterweight sets (SWL 180kg) at approx. 230mm centres

Sets currently installed: 1 (house tabs), 2 (header), 5-7, 10-14, 16-24, 27

Set 27 approx. 6.5m from back of proscenium wall

All counterweight sets operated from stage right fly gallery

Drift on sets 2-27: 10.8m (lowest bar of truss +0.9m to stage +11.7m)

4 No cross stage motorised lighting bar hoist sets (SWL 400kg) located between c/w sets 3-4, 8-9, 14-15 and 25-26, operated from pendant control stage level down stage left

Cross stage flying truss length 10.24m

4 No cross stage hand line sets located between c/w sets 10-11, 12-13, available, 18-19 and 20-21 and operated from stage left fly gallery

4 No cross stage hand line sets located upstage of c/w set 27

Upstage set operated from stage level upstage left, others from stage left fly gallery

Fly gallery each side of stage

Loading gallery stage right

Lighting Ladders

3 No (removable) lighting ladders on individual tracks beneath each fly gallery

Drapes

8 No NDFR black wool serge legs, each approx. 2m wide x 5.9m drop, no fullness

4 No NDFR black wool serge borders, each 10.2m wide x 2.5m drop, no fullness

1 No NDFR pair black wool serge tabs, each half 5.6m wide x 6.5 drop, 50% fullness

1 No NDFR white filled cloth, 10.2m wide x 7.0m drop, no fullness

Access Equipment

1 No motorised personnel lift, details to be agreed - client supply

ARBROATH WEBSTER THEATRE TECHNICAL FACTS

Main Theatre

Production Lighting

Fixed lighting bridge in auditorium
Vertical side lighting booms either side of auditorium
Circle front
Follow spot location in control room and at rear of balcony on either side

Lighting control desk: ETC Congo 1000, normally operated from theatre control room at rear of balcony, but can be plugged in at rear mid stalls seating block position

Hand held radio rigger's control

Dimmers: ETC Sensor ESR feeding outlets as follows:

FOH: 32 No 2.5kW
Flies: 38 No 2.5kW, 4 No 5kw
Stage: 22 No 2.5kW

8 No 15A non-dim (switched) circuits controlled from panel in theatre control room

15 No Ethernet sockets located throughout theatre with 2 No links to assembly hall
1 No Ethernet switch at Ethernet patch panel in theatre control room

14 No DMX sockets each located at all principal lighting positions
1 No 1-in 6-out DMX splitter DMX patch panel in theatre control room

Spare Power Supplies

Stage right: 100A TPN
100A SPN (sound)

OB power: 100A TPN with external socket in parking bay behind workshop

Technical earth on all sound power supplies

ARBROATH WEBSTER THEATRE TECHNICAL FACTS

Main Theatre

Communications

Stage Manager's desk sockets located downstage left & right

Cue lights:	Flashing ref type, 10 outlets
Intercom:	Twin ring type, 16 locations plus link to assembly hall
Infra-red:	Twin channel (1 for hard-of-hearing, 1 for audio description)
Video:	Colour camera on balcony front 23 No video sockets located throughout the theatre, plus links to assembly hall

Sound

House mixer:	Allen & Heath GL2400 24/4/2
Theatre control room:	Rear balcony, with opening window
Microphone lines:	45 No within stage/auditorium
Audio lines:	12 No within stage/auditorium, plus links to assembly hall
Radio mic antenna lines:	2 No on balcony front
Mic/audio patching:	theatre control room
Outboard gear:	CD player, MD player/recorder, digital effects unit, graphic EQ, all contained in mobile effects rack
Main speaker system:	L&R speakers – Martin Audio F15A & F8 Rear bridge delays – Martin Audio F10 Under balcony delays – Martin Audio WTU8 System controlled and equalized by Peavey X-Frame
Main system amplifiers:	MC ² T Range
Subs loudspeaker lines:	1 No each to downstage left & right
Effects loudspeaker lines:	8 No within stage/auditorium

Alternative operating position for house or brought-in mixer at rear mid stalls seating block position

Temporary cable ways throughout from parking bay behind workshop to stage and auditorium mixer position

ARBROATH WEBSTER THEATRE TECHNICAL FACTS

Assembly Hall

Hall

Flat floored hall on first floor, approx. 14m long x 7m wide x 6m high
Floor finish: Junckers "Harmony" 22mm lacquered semi-sprung floor

Stair and passenger lift access only – ground floor lift access through main foyer
Lift car size 1100W x 1400D, door 800W x 2000H

Single tier retractable seating, 65 seats over 9 rows, plus 7 front row loose seats

Suspensions

Perimeter "walk along" tab track around sides and back of "stage", approx. 3.4m long x 5.3m wide at 5.4m above floor

Winch in roof void enables 1.5m section of track to be lowered to floor level for removal/attachment of drapes

Drapes

6 No NDFR black wool serge legs, each approx. 2m wide x 5.35m drop, no fullness

Production Lighting

3 No internally wired lighting bars at approx. 2m centres over "stage" end at 5.5m above floor

Zero 88 Fat Frog lighting control, normally operated from hall control room above side of hall, but can be plugged in at rear hall floor level

Stage lighting socket outlets wired to 36-way patch panel feeding 3 No Zero 88 6-way Betapack dimmer packs located in hall control room

4 No Ethernet sockets located throughout hall with 2 No links to theatre

1 No Ethernet switch at Ethernet patch panel in hall control room

6 No DMX sockets each located at all principal lighting positions

1 No 1-in 4-out DMX splitter DMX patch panel in hall control room

Spare Power Supplies

Stage left: 60A TPN
 30A SPN (sound)

Technical earth on all sound power supplies

ARBROATH WEBSTER THEATRE TECHINCAL FACTS

Assembly Hall

Communications

Intercom: Single ring type, 7 locations plus link to theatre
Induction loop: Standard induction loop for hard-of-hearing
Video: 11 No video sockets located throughout the hall, plus links to theatre

Sound

House mixer: Soundcraft Spirit EPM12
Hall control room: Above stage left side of hall, with opening window
Microphone lines: 18 No within hall
Audio lines: 8 No within hall, plus links to theatre
Mic/audio patching: hall control room
Outboard gear: CD/cassette deck, MD player/recorder, graphic EQ, all contained in mobile effects rack
Main speaker system: 2 No Mackie SRM350 powered loudspeakers with stands
Effects system amplifiers: Rack space for future amplifier
Effects loudspeaker lines: 8 No within hall

Alternative operating position for house or brought-in mixer at rear hall floor level

Audio-Visual

Video projector: NEC NP2000 video projector on wall above rear seating
Source equipment: DVD replay/VHS replay/record unit on mobile trolley
Screen: Folding portable projection screen providing maximum picture size of 4.5m wide x 3m high

ARBROATH WEBSTER THEATRE TECHNICAL FACTS

Shared Equipment

Loose Equipment

Lighting: 24 No 1kW Thomas PAR cans
12 No Selecon Rama 1.2kW fresnel spots
16 No Selecon Acclaim 650W fresnel spots
8 No Selecon Pacific 1kW 12°-28° zoom profile spots
8 No Selecon Acclaim 650W 24°-44° zoom profile spots
5 No Selecon Hui 800W 4-cell cyc floods
5 No Selecon Hui 500W 4-cell groundrow floods
2 No Spotlight Milano Vedette 1200W HTI 14°-25° follow spots
Extension cables, splitters, stands etc.
5 No Strand Cantata 1.2kW 11°-26° zoom profile spots (existing)
12 No Strand Cantata 1kW 18°-32° zoom profile spots (existing)
6 No Strand Harmony 1kW PC spots (existing)
6 No Strand Cantata 1.2kW Fresnel spots (existing)

Sound: 4 No Shure SM58LC microphones
4 No Shure SM57LC microphones
2 No Trantec S3500WHM VHF radio microphones
2 No 12-way microphone stage boxes with multicore cables
2 No EMO E520 passive DI boxes
Extension mic cables, stands etc.

Machinery: Tab tracks, rope, braces, weights etc.
Access equipment to be confirmed – direct client order item

Existing loose lighting and sound equipment as listed elsewhere

All loose equipment is shared between the main theatre and assembly hall

Carr & Angier

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