

# Cambridge Corn Exchange Technical information

Please note that the information contained within these technical pages is aimed specifically at companies requiring technical information on the building. However, if you are interested in the specifications of the building - read on!

You can contact Chris Norton our Technical Manager by emailing [chris.norton@cambridge.gov.uk](mailto:chris.norton@cambridge.gov.uk)

## Stage

### Dimensions

- Full stage (two extensions) Width 15.8m Depth 9.5m
- With one extension Width 15.8m Depth 7m
- Fixed stage Width 15.8m Depth 4.9m
- Stage Height 1m

A scale drawing of the Cambridge Corn Exchange can be found at the end of this document.

Please note the stage size affects the audience capacity. If your event is booked in on a smaller stage size it will not be possible to use the full stage once the show has gone on sale.

## Drapes

- 8 x 10' x 20' Drop serge legs - flat.
- 2 x 26' x 20' Drop Bolton twill travellers (black)
- 1 x 50' x 6' Drop Bolton twill border
- 4 x 36' x 7' Drop Serge borders
- 4 x 44' x 8' Drop Serge borders

## Flats

- 6 x Masking flats 18' x 6'
- All drapes black. All flats black serge covered. Blue cordaline house tabs and vallance installed on T70 track for use on full stage only.

## Risers

- 12 x 6ft x 3ft

## Floor

- Maple

## Dance floor

- Black Harlequin dance floor, rolled from left to right to fit stage lifts.  
Black/white "layflat duo floor" suitable for dance.

## Cross-over

- Rear stage corridor.

## Dressing rooms

1. 11' x 10' approx. plus shower and toilet.
  2. 10' x 10' approx. plus shower and toilet.
  3. (Production Office)-18' x 6' approx. plus shower.
  4. 15' x 18' approx. plus toilets.
  5. 18' x 11' approx. plus toilets.
  6. (Wardrobe)-15' x 18' approx.
- Wardrobe equipped with Maytag industrial washing machine and two dryers.
  - Iron and ironing board available on request.
  - All dressing rooms contain mirrors and 13A outlets.
  - Tannoy and show relay to all dressing rooms, all back stage areas are heated.
  - Rooms 1,2 and 3. Rear stage.
  - Room 4. First floor.
  - Room 5 and 6. Second floor.

## Clearance

- Stage to grid 7.8m
- Stage to gantry 6.3m
- Smallest dimensions; Width 2.1m

## Get in

- Smallest dimensions; Width 2.16m
- Height 2.42m

## Temporary power

- All temporary supplies located stage left.
- Lighting- 3 Phase Power Lock 250A per phase. Three Phase 125A CEE form outlet. Three Phase 63A & 32A CEE form outlets.
- Sound - Three Phase 125A per phase. Three Phase 63A & 32A CEE form outlets. Single phase 63A & 32A CEE form outlets.
- Distribution systems can be arranged for exhibitions etc, please contact technical department.

## Follow spots

- These are restricted for use by house operators only.
- 2 X Robert Juliet Manon Follow Spots. Two follow spot positions are available at the rear of the balcony for touring spots and operators, 32A or 2 x 16A supply per side. Please note - use of these positions will reduce seating capacity and may lower your gross. Please let us know before tickets go on sale if these are needed.

## Mixer position

Stand up shows at rear left of auditorium approx. 19m from stage. Maximum 7.5m x 4m. Exact position and size to be determined by Duty technician/Duty Manager on day of show. Seated shows at rear centre block of seating 14m from full stage. Maximum 3 rows of 14 seats. Please note - if larger control positions are required this will affect the capacity. Please ensure the correct size is reserved at time of contract as it will not be possible to increase the space available once the show has gone on sale.

Stand up shows at rear left of auditorium approx. 19m from stage. Maximum 16' x 8'. Exact position and size to be determined by duty technician/duty manager on day of show. Seated shows at rear centre block of seating 14m from full stage. Maximum 3 rows of 14 seats.

## Crew

Only Corn Exchange crew can be used for load-ins/outs please contact us for current rates.

## **Truck access and parking**

There are special arrangements with the Police regarding access for articulated trucks please let us know if you have not already been informed of these. Parsons Court is a fire escape, there is no parking allowed at any time, and there is no access for loading and unloading whilst the public are in the building. Coaches, cars and small trucks can be parked on the 'exhibition site' adjacent to the Corn Exchange, space allowing.

Please notify us in advance if you require this site.

## **Control Of Noise At Work Regulations 2005**

We are required to comply with these regulations, in order to do so events must abide by the guidelines laid out in the Home Office guide to Safety and Welfare at Pop Concerts, with regard to sound levels. We reserve the right to monitor levels at events and to insist on reductions in levels if we deem necessary.

## **Pyrotechnics, smoke machines, naked flame, COSHH, lasers**

Please provide any details of pyrotechnics, smoke effects or the use of naked flame at least 14 days in advance, so appropriate authorisation may be obtained. Details of all substances falling under the COSHH regulations must be provided at least 14 days in advance.

Lasers, form PM19 must be sent to the technical manager 28 days in advance, so approval from the Health and Safety Officer may be obtained. We reserve the right to disallow the use of any pyrotechnics / lasers or effects, if in our opinion they may be unsafe.

## **Drapes, backdrops, scenery**

We are an open stage with no safety curtain, please ensure any scenery, drapes or backdrops are fire resistant to the appropriate level. Certificates will be required for any plastic or foam based materials. We reserve the right to carry out controlled flame tests and to disallow the use of materials that in our opinion may not be durably flame retardant. We have a full set of black masking flats legs and borders please contact us for details.

# House sound and lighting

## Sound

### FOH:

16 x L'Acoustics KARA II  
4 x L'Acoustics SB18 subwoofers

#### Subs:

4 x L'Acoustics KS28 subwoofers

#### Front Fills:

2 x L'Acoustics 8XTi 2  
x L'Acoustics 12XTi

Powered by:

6 x LA12 Amplification

1 x LA4X Amplification

Inputs to PA accessible from FOH mix positions or stage left

### DELAYS:

5 x L'Acoustics KARA (Summed mono centre balcony cluster) 5 x  
L'Acoustics 8XTi (2 x Mezzanine, 3 x Rear Balcony) Powered by:  
See above

### CONTROL:

#### Digital:

1 x MIDAS Pro 2 64 channel x 27 bus digital audio mixing system (console features: 8 mic/ line inputs, 16 analogue outputs, 2 AES inputs and 3 AES outputs) with 1 x DL251 remote stage (stagebox consisting of 48 mic/ line inputs, 16 output), and 48- way passive monitor splits)

1x Allen & Heath SQ7 32 mic/line inputs, 16 outputs , 1 AES output with 1x GX4816 (stagebox consisting of 48 mic/ line inputs, 16 output)

### MONITORS:

10 x Adlib Audio MP4

1 x Adlib Audio drum sub

Powered by:

6 x Crown XTI6002 Amplification

### MICROPHONES:

2 x Shure Beta SM58

10 x Shure SM58

8 x Shure SM57

1 x AKG D112

2 x AKG 414 B-XSL  
4 x AKG Blue line SE300B  
1 x AKG Emotion Series Drum Mic Kit  
6 x Sennheiser EW300 G3 Radio Rack  
6 x EW300 G3 belt pack  
6 x EW300 G3 Hand Held  
6 x Countryman E6  
6 x Audio Technica Pro 45  
2 x Amcron PCC 160  
2 x AKG C 409

## Lighting

### CONTROL

- Chamsys Stadium MQ250M with wing.
- Control positions available: lighting box, rear auditorium  
House lights can be under separate control from same positions
- 8 way Showtec ArtNet/SaCN node situated on gantry above stage

### DIMMERS

- 132 x 2.5kw Strand LD 90 (144 total, first 12 have been modified to be continuous power rather than dim)
- DMX breakouts available for installation of additional equipment

### LANTERNS

- 32 x 1K Fresnels
- 24 x CCT Freedom
- 15/32 zoom profiles
- 4 x CCT Freedom 28/58 zoom profiles
- 12x Martin ELP CL profiles (rigged on FOH bridge)
- 34 x Par 64 (CP62)
- 6 x Par 64 floorcans (CP60)
- 8 x Par 56 floorcans
- Irises and gobo holders available for profiles. Barn doors on all fresnels.

### MOVING LIGHTS

- 8 x Chauvet R3 Wash lights
- 8 x Vari-lite V12600 Profiles
- 5 x JB led A7 wash lights (floor package upon request)
- 8 x Martin Mac 350 Entour profile lights (floor package on request) 12x Smart bat uplighters (Floor package on request)

See patch sheet bellow.

### LIGHTING POSITIONS / OUTLETS

- Grid and outlet plan available on request.
- 15 x 500kg motorised winch bars inclusive of...
- 2 x 40' 24 way IWB (500kg motorised winch bars) and
- 2 x 40' 18 way IWB (500kg motorised winch bars)

- Maximum height from stage to grid 7.8m
- 40' 12way fixed advance bar at 6.1m
- Side bars (patched IWB) on stage at 6m and in auditorium at 7m
- FOH bridge height 11.3m, 12.2m from stage front.
- FOH bridge 1 x 12 way IWB
- FOH truss 1 x 12 way IWB, 14m from stage front.
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## **FOLLOW SPOTS**

- 2 X Robert Juliet Manon Follow Spots. Two follow spot positions are available at the rear of the balcony for touring spots and operators, 32A or 2 x 16A supply per side. Please note - use of these positions will reduce seating capacity and may lower your gross. Please let us know before tickets go on sale if these are needed.
- 8m under FOH bridge. Please note restricted to use by house operators only.

## **ACCESS**

- Tallescope working height up to 30'6"
- Zarges ladder, double extension ladder and step ladders.
- 1 x 13' loading ramp.

## **OTHER EQUIPMENT**

- Unique 2 hazer.
- 2 x 50cm Mirror Balls.

## **Radio microphones**

We are licensed for Radio Microphone frequencies for fixed site and indoor use, these are: (MHZ) 173.7-175.1; 176.4; 177.0; 583.355, to 586.835; 588.300 to 589.250 Channel 69 for indoor use - channels from within the frequency range 856.100 - 859.65MHz provided all primary transmissions are contained within this band. All equipment to be type approved to MPT 1350. Maximum power 10 mW hand held, 50mW bodyworn.

Radio mics. of higher power or any other frequencies are not permitted for use at the Corn Exchange. Channel 69 frequencies for general use (Appendix D) and frequencies available on independent film makers licences, UK general (Appendix F) may be used if you hold a licence or permit, we require to see copies of licences or permits before the equipment may be used. Radio mics. of higher power or any other frequencies are illegal and are not permitted for use at the Corn Exchange.

## **Internet/WIFI**

WIFI internet access is available at the Corn Exchange.

A full WIFI specification is available on request.

## **Projection.**

### **20K Lumen Projector with flying frame**

- Panasonic PT-MZ20K 20K Lumen WUXGA laser projector

### **Standard and ultra short throw lenses**

- Panasonic ET-EMU100 0.33-0.35:1 Short throw lens Min Throw 1.71m Max Throw 1.82m

- Panasonic ET-EMS650 1.35-2.11:1 Zoom Lens Min Thow 7.02m Max Throw 10.97m

### **Fast fold style projection screen with front and rear projection surfaces**

- Stumpfl Vario64 projection screen 16:9 - 540 x 310cm

## **Flying and rigging**

Grid plans and rigging point plans are available on request. The Corn Exchange is a listed building, please follow the duty technician's advice with regard to loads .

Please note: only specified rigging points may be used. The maximum load per point is 500kg and all loads MUST be evenly distributed. All riggers must be competent and experienced, and must carry their own insurance. All work must be carried out to current guidelines and legislation, and any lifting equipment used must have a current test certificate. All points must have independent fire resistant safeties, if these are not provided the Corn Exchange may provide and a charge will be made per point. There is a tensioned line "Latchway" system which must be used by all riggers ; details will be provided on arrival. The duty technician may disallow rigging at their discretion.

## **Electrical equipment**

All electrical equipment must be in good condition, with appropriate protective circuits and must be wired in accordance with the current IEE wiring regulations. RCD protection must be provided on all 13A or sound distribution outlets. Equipment and staff must comply with the Electricity at Work Regulations 1989, in particular in respect to the use and testing of Portable Appliances and certification produced for inspection. DO NOT bring equipment which does not comply with the above. The duty technician may require testing of any equipment that does not appear in good order or shows no certification - a charge for this service may be levied.

## **Management of Health and Safety At Work Regulations 1992 and Manual Handling Regulations 1992**

Please ensure your assessments under these and associated regulations are submitted to us no more than 14 days before your event.

Please note - we must also insist on the following points

- Please respect that the Duty Technician's decision on any matter regarding Health and Safety or our licensing conditions is final.
- We reserve the right to disallow the use of any electrical or rigging equipment, or substances that in our opinion may be dangerous.

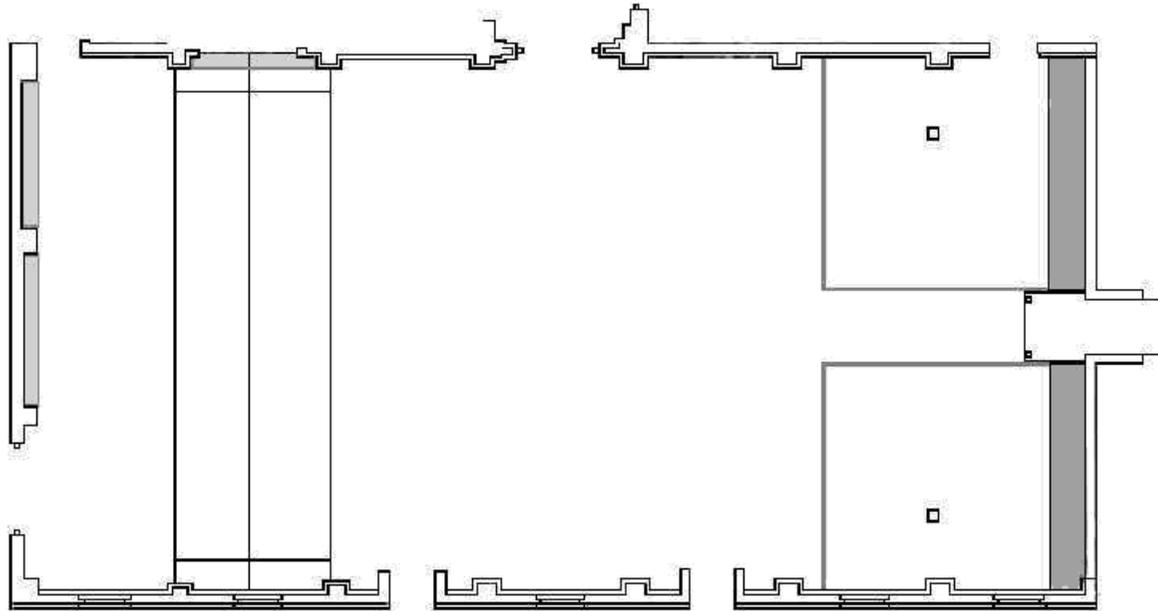
- We reserve the right to charge for facilities, staffing or equipment in excess to those specified in our contract.

## **Plans**

The following plans are also available to view electronically via our website:

<http://www.cornex.co.uk/technical-information>

# Stage Plan



A B C D E F G H

Dimensions -Taken from back wall - A

|   | DESCRIPTION                    | METERS | FEET     |
|---|--------------------------------|--------|----------|
| B | Fixed Stage                    | 4.5m   | 15ft     |
| C | With one Extension             | 7m     | 23ft     |
| D | Full Stage                     | 9.5m   | 31ft     |
| E | Bleacher Seating Unit Extended | 22.5m  | 3.5h     |
| F | Limit of Balcony               | 28.5m  | 93.5ft   |
| G | Bleacher Unit Retracted        | 33m    | 108ft    |
| H | Mezzanine                      | 34m    | 't11.5ft |



# CCX Intelligent Lighting Patch Sheet

Universes below can be provided over 5 pin or ArtNet

4x Extra universes are available over ArtNet

ArtNet Node IP Address: 2.0.0.3 Subnet: 255.0.0.0

Switch IP Address: 2.0.0.20

House Lights ArtNet IP: 2.0.0.200

**Universe A** Dimmers, Side Bars and Onstage Buffer

**Universe B** Upstage Movers

**Universe C** Mid-Stage Movers

**Universe D** FOH Bridge

**Universe E** MSR

**Universe F** MSL

**Universe G** SL walkway above stage

**Universe H** SL walkway above stage

**Universe I** Houselights

**Universe J** LX Box FOH

**Universe K** LX Box FOH

**Universe L** LX Box FOH

## Stage

### **VL2600 Profile (x8) 16 Bit 42 Ch**

[2.001, 2.043, 2.085, 2.127, 3.001, 3.043, 3.085, 3.127]

### **Chauvet R3 Wash (x8) 21 Ch**

[2.189, 2.210, 2.231, 2.252, 3.189, 3.210, 3.231, 3.252]

### **Martin ELP CL LED (x12) 16 bit, 17 Ch**

[4.133, 4.150, 4.167, 4.184, 4.201, 4.218, 4.235, 4.252, 4.269, 4.286, 4.303, 4.320]

### **Martin MAC 350 Entour (x8) 16 bit, 17 Ch**

[1.200, 1.217, 1.234, 1.251, 1.268, 1.285, 1.302, 1.319]

Side Bars

### **JB Lighting Vary LED A7 (x4) 16 bit, 19 Ch**

[1.350, 1.369, 1.388, 1.407]

Side Bars

### **Dimmers (x132)**

1.13 – 1.144

### **Look Solutions Unique 2.1 (x1) 2 CH**

1.511

## House lights

### **Chauvet Colorado 2 Quad Zoom (x8) AR2-Z 7 Ch**

Flat Floor [9.201 – 9.250]

### **Chauvet Colorado 1 Quad Zoom (x20) AR2-Z 7 Ch**

Ceiling Uplighters x 14 [9.299 – 9.390]

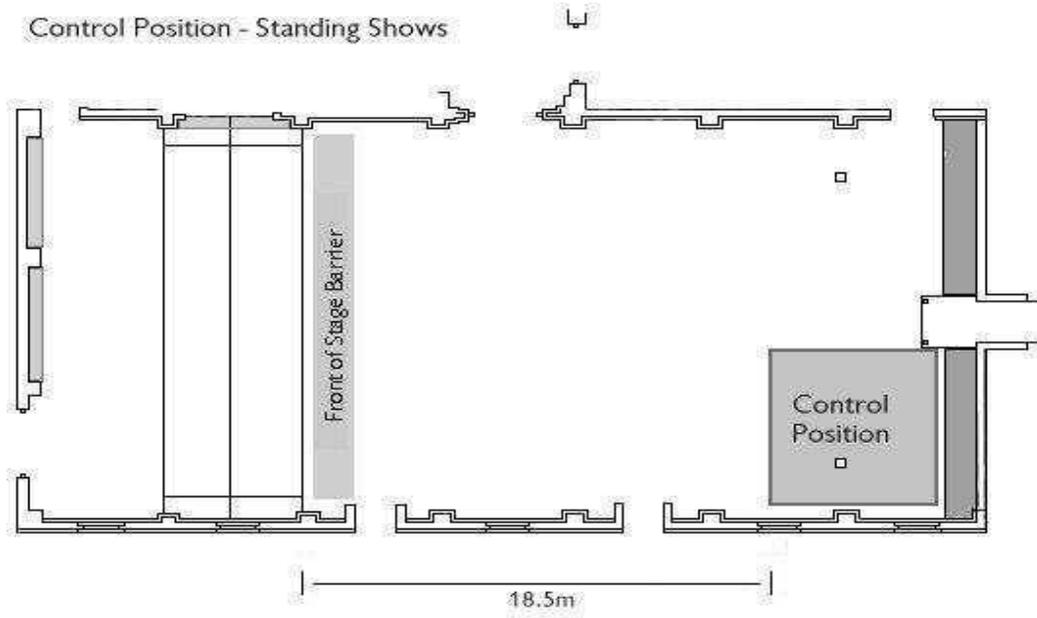
Balcony x 6 [9.257 – 9.292]

### **IlluminArc Logic AR111 Downlight S x36 5 Ch**

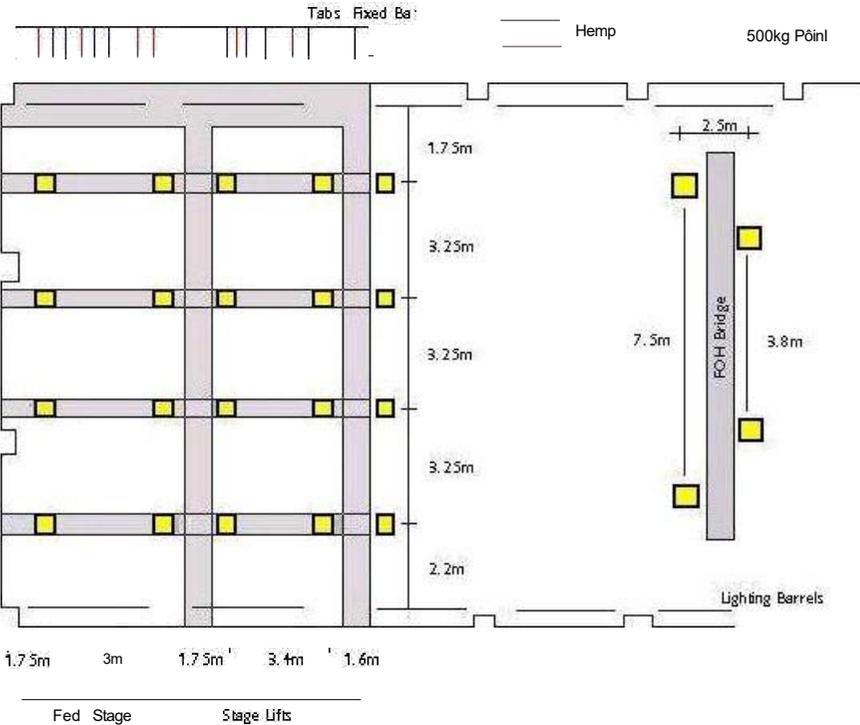
Mezzanine [9.001 – 9.176]

Houselights can be controlled independently by request.

Control Position - Standing Shows

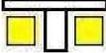


# Rigging Points - Plan



# Rigging Points - Side Elevation

 500kg Paint

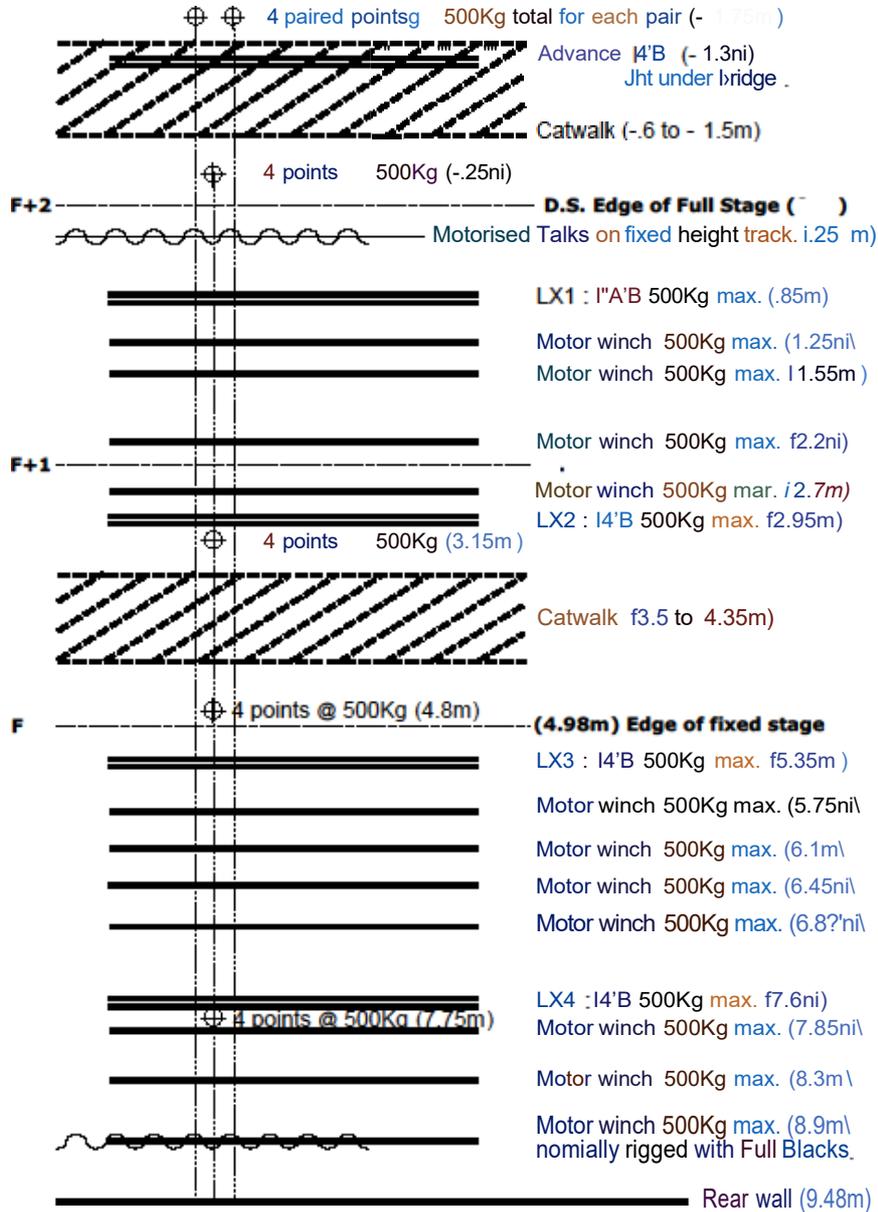
FOH Bridge  
  
House Spot

Sage Life

Door B

*ffia la a l 1.50 scale.*

The grid is a fixed vertical frame structure which runs up and down stage. Tri-frames are at 0.6m and 0.8m to the edge of rig of centre and 1.6m and 2.4m to stage III of centre. The fixed "poirris" can respond with these centres. The DS pay of points are .35m apart. All T@hing and uricJ+i bars are 13m long. Maximum height to grid is 7.8m. Centre is downstage. meslaSe and stage III at 6.3m. When every care is taken to ensure the accuracy of drawings it is recommended that you use it the ue



**END**