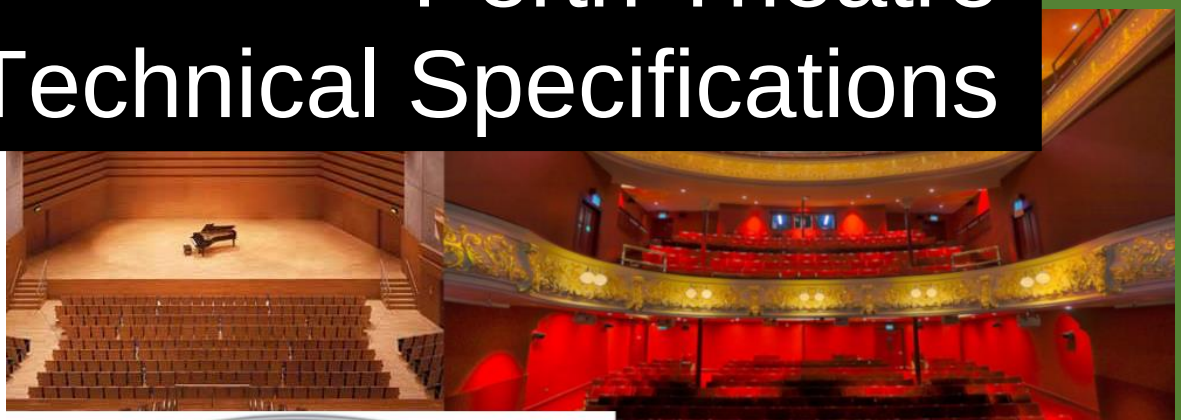
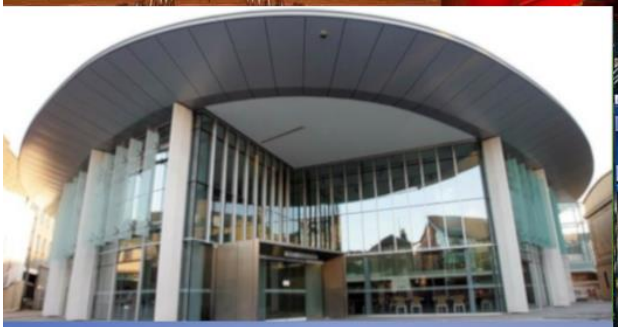
PERTH CONCERT HALL

PERTH THEATRE

2020

Perth Concert Hall & Perth Theatre Technical Specifications





John Pike
Technical Manager

V2.1 Nov 2019

About: Horsecross Arts

Horsecross Arts is the creative organisation set up in 2005 to run Perth Concert Hall and to refresh and reposition Perth Theatre, Scotland's oldest repertory theatre company.
We are proud of our two wonderful, contrasting venues - the historic Edwardian theatre with its classic proscenium arch and the state of the art concert hall with some of the finest acoustics in Europe.

Our multi award-winning team has earned a reputation for adventurous programming, unique commissions, critically acclaimed performances by world-class artists and inspirational community activities. We are at the heart of cultural life in Perthshire and our venues are a destination and a resource base for everyone.

Horsecross Arts is a registered charity. Approximately 50% of our income is earned income (i.e. money raised from ticket sales, conference and event and catering income) with the remainder stemming from Scottish Government, Local Authority, trusts and foundations, corporate sponsors and individuals.

About: Perth Concert Hall

Perth Concert Hall is a modern and elegant space that houses a diverse programme of concerts, performances and contemporary art.
It has a dazzling glass-fronted foyer and copper-topped dome hall with a stunning auditorium and elegant studio. The Concert Hall first opened in September 2005, with a seating capacity of 1186 seated and 1622 with standing.

About: Perth Theatre

Perth Theatre reopened in November 2017 after a £16.6m transformation.

The restored and redeveloped venue features a fully restored Edwardian auditorium, new 200 capacity studio, dedicated community rooms, and spacious and welcoming public areas.

Perth Theatre has a long history of artistic innovation and excellence having been at the heart of cultural life in Perth for over a century.
As well as creating and touring its own productions, Perth Theatre collaborates with theatre companies and visiting artists to bring the best local, national and international work to its stages.

Perth Theatre and Concert Hall are both extremely busy venues catering to the needs of many users. We therefore ask that you familiarise yourself with the facilities we can make available and communicate your technical requirements <u>at least 6 weeks</u> in advance of your performance via the Technical Manager

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Location and the Local Area

Scotland's newest city; the 'Fair City' of Perth is a great place to discover. It sits on the banks of the river Tay in some of the most beautiful scenery Scotland has to offer, surrounded by rolling hills and lush countryside. There is a lot to be said for just having a wander through the streets, taking in the riverside walks and the two large parks that frame the centre (North and South Inch).

Getting to us

By Road

Perth is easily accessible via all forms of transport. It sits astride the M90, A9, and A85 and due to our central location 90% of Scotland's population can reach our city in 90 minutes or less.

Perth Theatre and Concert Hall both sit on Mill St, Perth and can be found following the post code PH1 5HZ

The Concert Hall loading area can be found on North Port, post code PH1 5LU

By Train

There are regular trains from Scotland's major cities. Perth railway station is located approximately 0.7 miles (1.1km) from the centre of Perth. A map showing the best route to walk can be found here. There is also a taxi rank located outside the station.

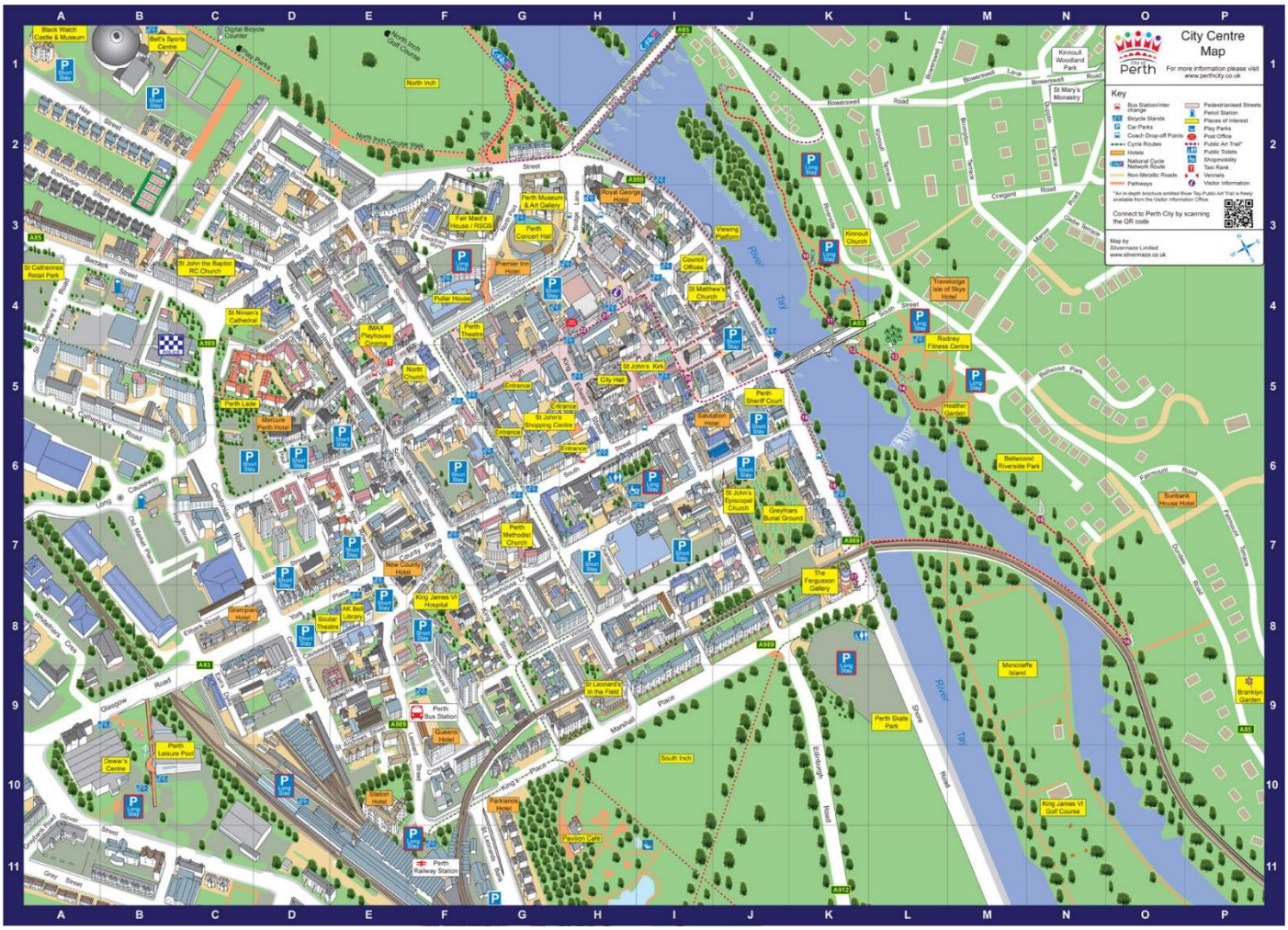
By Bus

Perth bus station is located approximately 0.4 miles (0.7km) from the centre of Perth. A map showing the best route to walk can be found bus station is located approximately 0.4 miles (0.7km) from the centre of Perth. A map showing the best route to walk can be found here.

There are many local bus services which link the centre of Perth and the surrounding area. The Perth and Kinross Council website provides details about timetables and routes.

There are three Park and Ride sites operating in Perthshire:

Perth Park + Ride
Scone Park + Ride
Kinross Park + Ride


City Centre Map
Key
Perth Concert Hall
Perth Theatre
River Tay
North Inch
South Inch

Contacts

Technical Department

Technical Manager	John Pike	01738 472702	jpike@horsecross.co.uk
Deputy Technical Manager	Kenny McKeown	01738 472746	kmckeown@horsecross.co.uk
Head of Lighting	Karin Anderson		kanderson@horsecross.co.uk
Head of Sound	Ritchie Young		ritchieyoung@horsecross.co.uk

Production Department

Production Manager	Gavin Johnston	01738 477756	gjohnston@horsecross.co.uk
Company Stage Manager	Sandra Grieve	01738 477746	sgrieve@horsecross.co.uk

Front of House & Catering

Front of House Manager	Erin Grant		erin.grant@horsecross.co.uk
Catering Manager	Natalie Hardie		natalie.bald@horsecross.co.uk

Conference & Events

Head of Conference and Events	Michaela Anderson	01738 477732	manderson@horsecross.co.uk
Conference and Events Executive	Wendy Stenberg	01738 427207	wstenberg@horsecross.co.uk

Health & Safety

H&S Consultants	Douglas Cameron	08781 0851458	HandS@lawatwork.co.uk

Main Switch Board
01738 472700

Box Office
01738 621031

The technical team can usually be reached between the hours of 10 00 & 17 00 Monday to Friday.

General Information

Backstage Security

Backstage areas at Perth Theatre and Concert hall are both secured via swipe pass, mag locked, entry doors. A limited number of temporary passes are available for authorised visitors however, on most occasions there will not be enough to supply everyone with a pass. The Stage Door at both venues is manned allowing company members to enter and exit freely.

It is the responsibility of all visiting Company Managers / Tour Managers to ensure that they keep an accurate list of persons from their performance on site for the purposes of fire evacuation and to ensure a system to identify approved persons from their performance or tour is in place and provided to the Duty Stage Manager on arrival.

Parking

Perth Concert Hall

There are 8 parking spaces available at Perth Concert Hall. These are controlled via Perth & Kinross Council issued permits which must be displayed while on site – failure to do so will result in a parking fine from the local authority.

Please note that Perth & Kinross Council limit cars to 3 in these spaces.

If you require to use the concert hall parking, please advise in advance so that we can ensure that enough spaces will be available. In the event that no parking has been booked parking will only be issued subject to availably on a first come first served basis and may have already been issued to other events.

Parking permits must be returned on departure.

Please see more information regarding trucks and tour buses in the concert hall section.

Perth Theatre

There are no provisions for personal parking at the theatre. Vehicles must be removed from the Loading Bay immediately after Load in where applicable.

Perth has many short/long stay carparks many using the RINGO parking system.
There is also a car park on Kinnoull Street which is operated by Smart Parking Car Parks (01738 440 933). This 550-space multi-storey car park is open from 7am – midnight Monday to Saturday and 10am – midnight on Sundays. It is a pay-and-display car park meaning that the charge must be paid on arrival. A height restriction for this car park is also in place: approximately two metres (six-and-a-half feet). Vehicles higher than this should park in South Inch car park where there's no height restriction.

Deliveries

To ensure that your deliveries do not go missing please ensure that all deliveries are clearly marked with your production name and performance venue (i.e. Perth Theatre or Perth Concert Hall)

Front of House

Both venues have ample FOH space which companies are free to use. Each venue has an onsite café. Opening hours;

	Monday - Saturday
Perth Theatre Café and Bar	10 00 – 17 00
Perth Concert Hall Glassrooms Café	10 00 – 16 00

WI-FI

Free Wi-Fi is available throughout the buildings with no password required.

Secure backstage Wi-Fi is available, please see the Duty Stage Manager for access.

Smoking & Vaping

All Horsecross venues are non-smoking and non-vaping. Designated smoking areas are available at both venues, the Duty Stage Manager will advise of these on your arrival.

PAT & Electrical Safety

All electrical equipment brought to Horsecross venues must carry evidence of recent PAT (not more than 1year old). Any item without such evidence shall not be permitted on site or shall be PAT by our house team at the charge of £25 per item.

Horsecross Arts reserves the right to refuse to use of any item it deems unsafe.

All electrical equipment must be installed and set up in accordance with BS7909:2011 and BS 7671. Productions requiring more than 6Kva of house power will be expected to present Electrical Completion Certificates before sound check or rehearsals commence.

Rigging

All rigging brought to Horsecross venues must carry evidence of in date LOLER inspection and be rigged in accordance with industry best practice. It is expected that all visiting companies and tours provide the technical team with accurate drawings showing weights, loads and points required for their performance. All rigging must be marked with its safe working load.

All rigging must be conducted by house technicians, or, if you tour with your own rigger, they must carry NRC level 2 accreditation. If you are not touring with an NRC rigger, a house technician to work with your team can be supplied at additional cost. Please discuss this during your advance process.

It is Horsecross policy that all overhead rigging must be Safe-Tied unless it is 50% under its rated load or suspended with CAT A/D8+ hoists. All equipment on said rigging must have secondary suspension points.

Horsecross Arts does not permit truss climbing in its venues unless a rescue plan has been provided and a functioning safety system is in place.

Health and Safety

All third parties working with us are expected to share adequate health and safety information, including CDM documentation, and cooperate fully with us to ensure the health, safety and welfare of all those who might be affected. All parties are expected to adhere to Horsecross Health & Safety policy and Codes of Practice. Freelancers working in our premises or in any situation under our control, are expected to meet the requirements of our safety policies and any other relevant health and safety procedures determined by us and the spaces that they are working in.

A copy of your show risk assessment, and relevant method statements and systems of work, along with your insurance documentation must be provided in advance of your arrival.

Staff carrying out tasks which require accreditation or training will be asked to present certificated evidence of such.

Staffing

Staffing for your event should be discussed at point of contract and finalised thought-out your advance. As standard, Perth Theatre Main House and Perth Concert Hall Gannochy auditorium are supplied with duty stage manager and one technician for up to 10hrs including breaks. The Joan Knight Studio is supplied with one technician, also for 10hrs. If additional staffing is required, it will be charged at rates as per your contract. Please advise any requirements in advance.

Staff Breaks

Staff are required to take one 1hr break per 5hrs at work. If breaks are not maintained and deemed to be the responsibility of the visiting company or tour, they will be charged the penalty fee outlined in the contract.

Backstage & Kitchen

Please be aware that Perth Theatre & Perth Concert Hall are very busy venues and there may be other companies performing at the same time, as well as the in-house staff, and sharing the backstage facilities

Perth Concert Hall

Perth Concert Hall has a backstage catering station with boiling water and cold filtered water for general use. There is a fridge and microwave which all are welcome to use

Perth Concert Hall kitchen can be made available for catering, please see information in the Concert Hall section

Glassrooms café which is situated inside Perth Concert Hall is open from 10am Mon-Sat and visiting companies can have access to the staff menu available from 10am-2:30pm. Evening menus are available upon request.

Perth Theatre

The Green Room is situated on the first floor. The Green Room is for use by the entire company and consists of a seating area, eating area, kitchenette, sink, fridge, microwave, kettle and toaster.

There is a show kitchen situated on the ground floor outside the Main Stage entrance to USL with a small fridge/freezer

Perth Theatre Café and Bar which is situated inside Perth Theatre is open from 10am Mon-Sat and visiting companies can have access to the staff menu available from 10am-2:30pm. Evening menus are available upon request.

Tour Health & Safety

Horsecross Arts prides itself on being a safe and pleasant place to work and perform. To this end incoming companies are asked to observe the following;

Show Advance

Please ensure that you provide the technical team with your show advance information as early as possible, at least 6 weeks before your performance.

Your show advance information should include your show risk assessment, method statement and safe systems of work along with your insurance documentation.

Rigging

Please provide rigging plans with your show advance which include all weights, loads and points requirements.

Rigging must be conducted by NRC riggers. If you are touring without an NRC rigger, please contact the technical team to discuss.

Electrical

Please ensure that all electrical equipment has evidence of current PAT inspection and that you are prepared to provide electrical completion certificates (if using more than 6Kva) and details of your person responsible.

Noise

All engineers must maintain noise levels in compliance with our noise Code of Practice a copy of which is in your advance pack. Noise levels will be monitored and recorded by Horsecross.

Before sound checks or testing commence it is requested that all engineers notify the Duty Stage Manager to allow persons to put on PPE if required.

Fire Protection

All Stage materials, be they fabric, timber, plastic or metal must be fire retardant. Horsecross Arts reserves the right to test any material for fire retardancy where evidence cannot be presented.

Staff

All tour personnel working in Horsecross venues must have the relevant permissions to be working in the UK. Staff must have the relevant training, competencies and skill to undertake the work they are doing and must not work under the influence of drink, illegal drugs or prescribed medication (where it has the potential to raise the risk of harm)

Pyrotechnics

Pyrotechnics are permitted at Perth Concert Hall as long as they are installed and operated by a trained and competent individual.

Pyrotechnics used at Perth Concert Hall must conform to BS EN 15947 and be in full working order.

Plans, risk assessments and relevant safety precautions must be provided to the technical team in advance. It is the responsibility of the tour to provide all additional safety equipment required. Reference is made to HSE's guide Guidance on Explosive Regulations - Pyrotechnic articles in retail and commercial premises

Lasers

Lasers may only be installed and operated in accordance with a safe system of work under the supervision of a laser safety officer. Please notify the details of this to the technical team in advance. Reference is made to PLASA Safety of Display Lasers

Policies

We ask that all persons working on Horsecross sites abide by our safety policy, codes of practice and procedures.

Fire Evacuation

Action to be taken by a person discovering a fire

- Operate nearest Break Glass point/Fire Alarm.
- Tackle fire only if you are trained to be a Fire Warden and provided it is safe to do so.
- Leave the building immediately if not safe to tackle fire.

When the Fire Alarm is activated:

- The voice alarm asks everyone to leave the building.
- Backstage areas have supplementary sirens and flashing beacons.
- The lights come up in the auditorium.
- The sound is cut in the auditorium if the house sound system is in use
- The passenger lifts go to the ground floor and lock off against use.
- The gas supply is isolated.
- The plant and ventilation systems are isolated.

Fire Actions of Third Party Contractors and Visitors

On fire alarm activation leave the building by the nearest Fire Escape under the instruction of our Fire Wardens

Do not delay your escape

Perth Concert Hall

Access & Parking

Access to the stage and hall is good. The loading bay is located off stage left and the route to the stage is flat with a straight run 3m wide from the dock to the stage. There is a 90degree turn from trucks onto the dock but there is a wide concrete platform to unload onto, which is under cover. The loading bay pad is 0.6m (2') high. Access door height is 2.4m (8').
The dock is suitable for one truck to park and remain in place until load out (please note that tractor units must be detached once parked to avoid obstructing pavements)
The dock can be extended to accommodate two or three trucks on request. Please discuss this with the technical team in advance.

Parking at the hall is limited and all vehicles must be booked in advance so that permits can be arranged. Vehicles parked without a permit will be fined by the local authority no matter who they belong to.
Up to 8 permits can be made available on booking. A maximum of 3 of these can be issued to cars.

A limited number of branded trucks and tour buses can be parked at the hall for the duration of your show. There are parking areas on the West side of the hall and the East "on the Dock". Please discuss your needs with the technical team in advance.

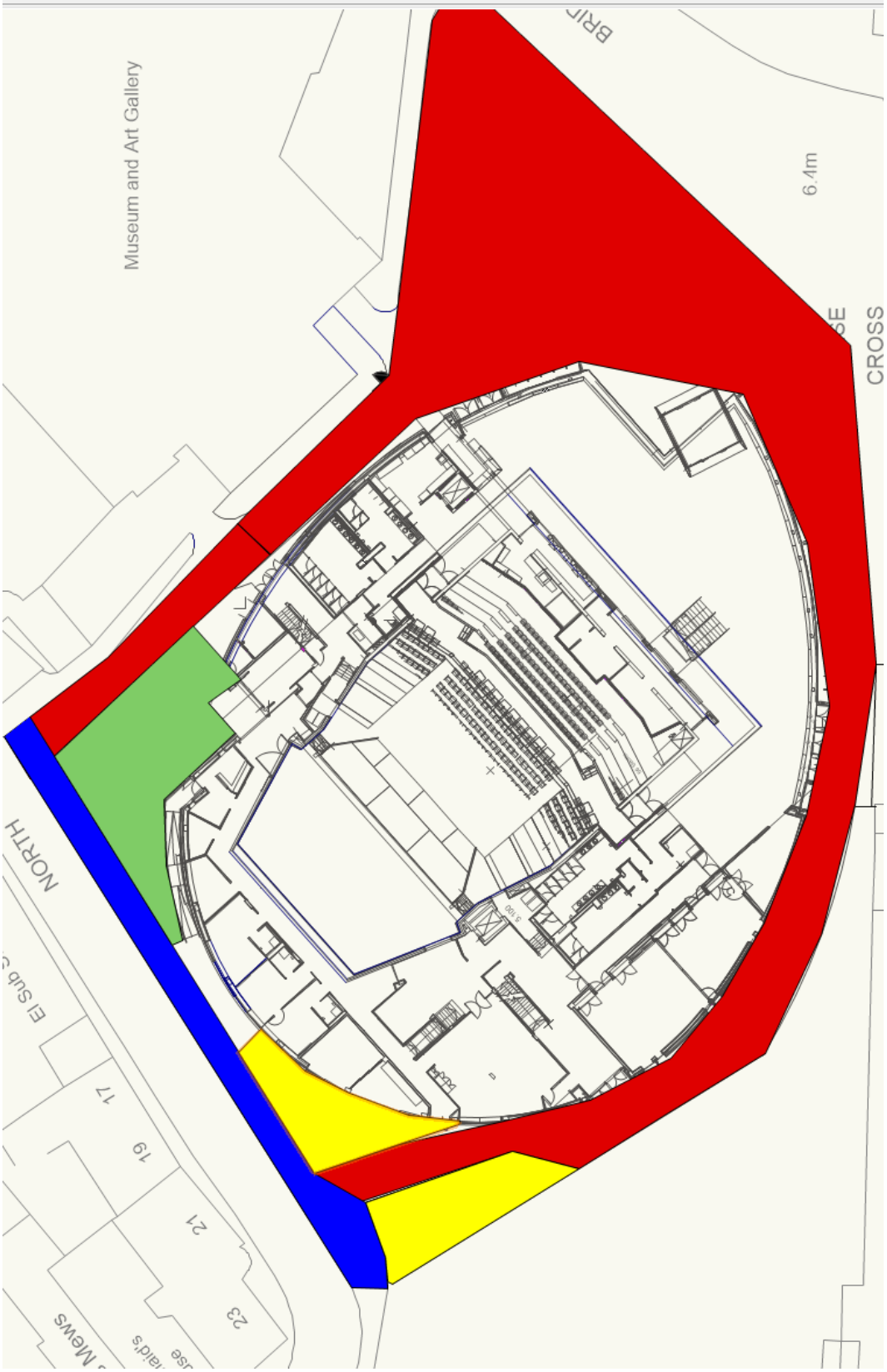
Vehicles are welcome to arrive from 04 00 on the day of the show and must depart by 03 00. If you require early or late arrival, please contact the technical team to discuss.
Please note that the concert hall is in a residential area. Please switch off engines on arrival and keep noise to a minimum between 23 00 & 08 00

Shore Power

16amp single phase and 32amp single or three phase power can be provided for vehicles parked at Perth Concert Hall. Power availability is dependent on the side of the hall on which you park. Please discuss your needs with the technical team in advance.

Please note that for safety reasons the power is only available while the building is manned.

Parking Plan



Fire Lane

No Parking Permitted

Pavement

No Parking Permitted

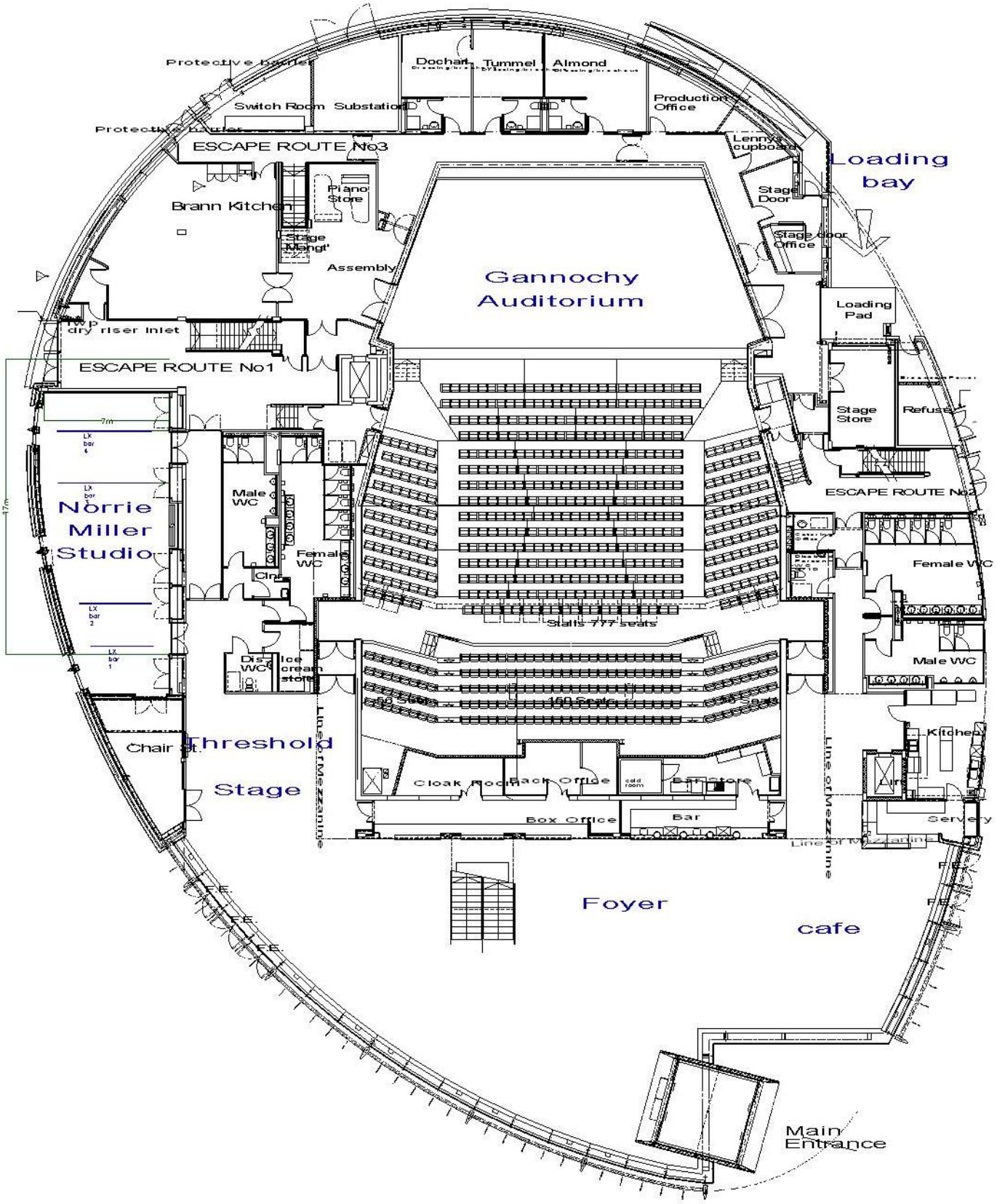
Dock

Space for upto 8vehciles (3no cars max), with permit

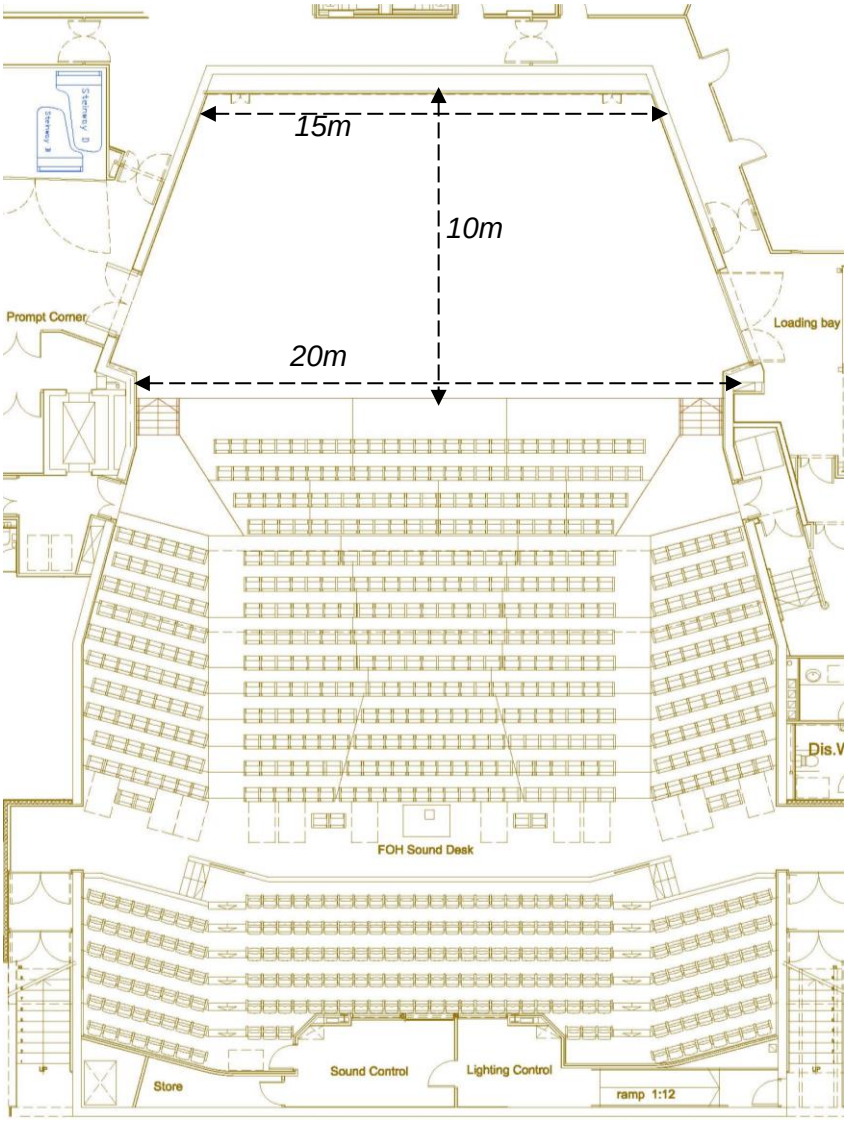
The "L"

Overflow Parking. Must be pre booked.

Perth Concert Hall Ground Floor Plan



Gannochy Auditorium – Formats



Full Stalls Format

20m (65') wide at Front

15m (49') wide at Rear

10m (32') deep

The main auditorium seats 1186 in this format

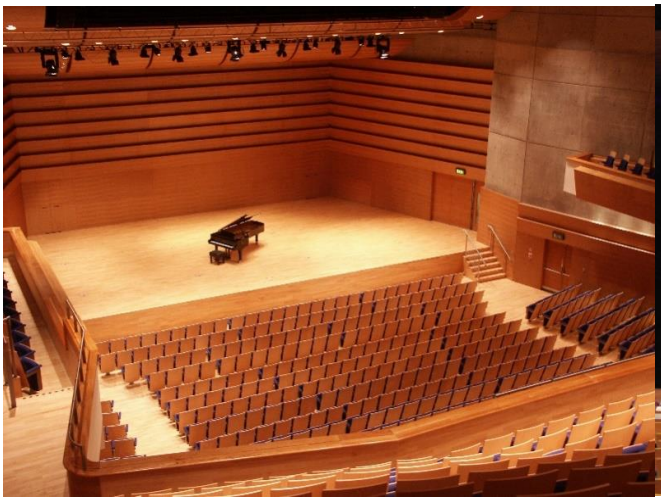
505 in the stalls seating area

261 in the raised stalls

420 in the balcony

n.b actual seat numbers may depend on final layout, disabled seating and technical requirements. Please check with your advance team.

This format is available in either open "classical" format or Black box.



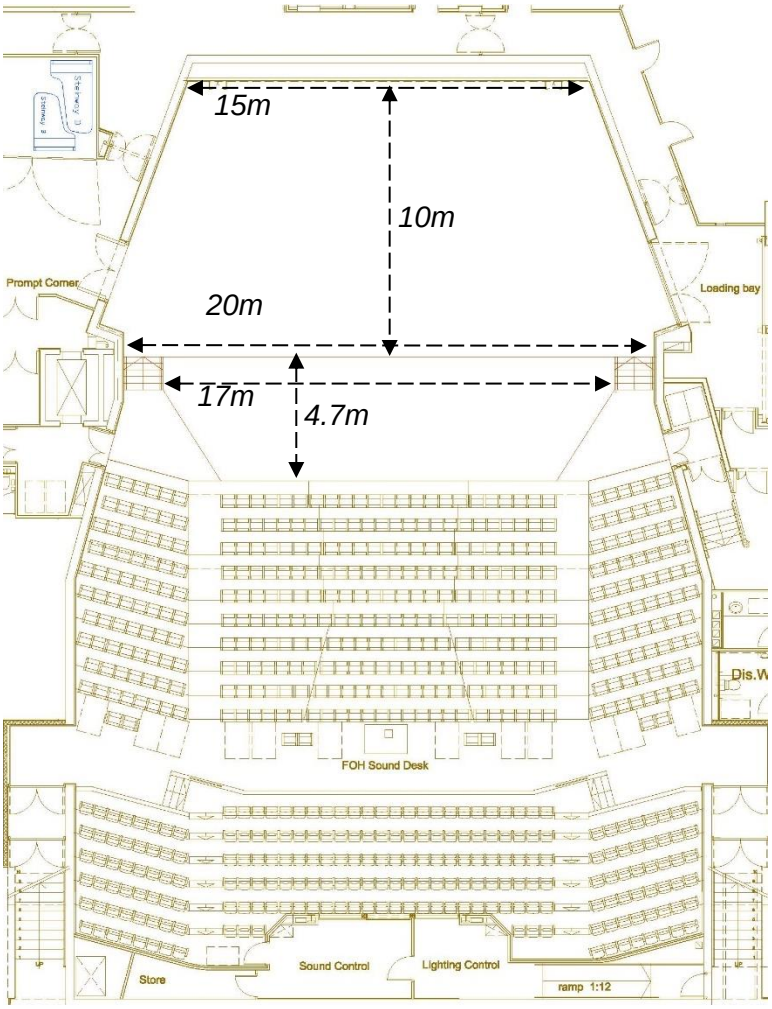
"Thrust" Format

20m (65') wide at Front

17m (55') thrust tapering in

15m (49') wide at Rear

14.7m, (32') deep



The main auditorium seats 1082 in this format

401 in the stalls seating area

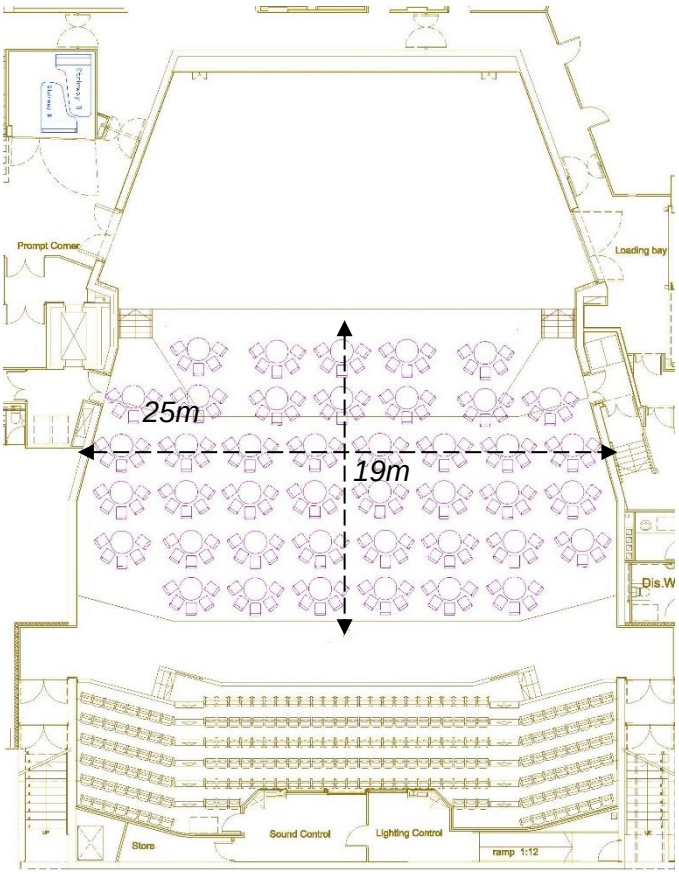
261 in the raised stalls

420 in the balcony

n.b actual seat numbers may depend on final layout, disabled seating and technical requirements. Please check with your advance team.

This format is available in either open "classical" format or Black box.

Please note that the main house PA is aligned for full stalls format. We do not recommend the use of amplified sound in this format.



Cabaret Format

20m (65') wide at Front

15m (49') wide at Rear

10m, (32') deep

19m x 25m Seating area

The main auditorium seats 891 in this format

210 in the cabaret seating

261 in the raised stalls

420 in the balcony

n.b actual seat numbers may depend on final layout, disabled seating and technical requirements. Please check with your advance team.

This format is available in either open "classical" format or Black box.

This format requires a large format change and additional charges may apply. Please check with the technical team or your contract.

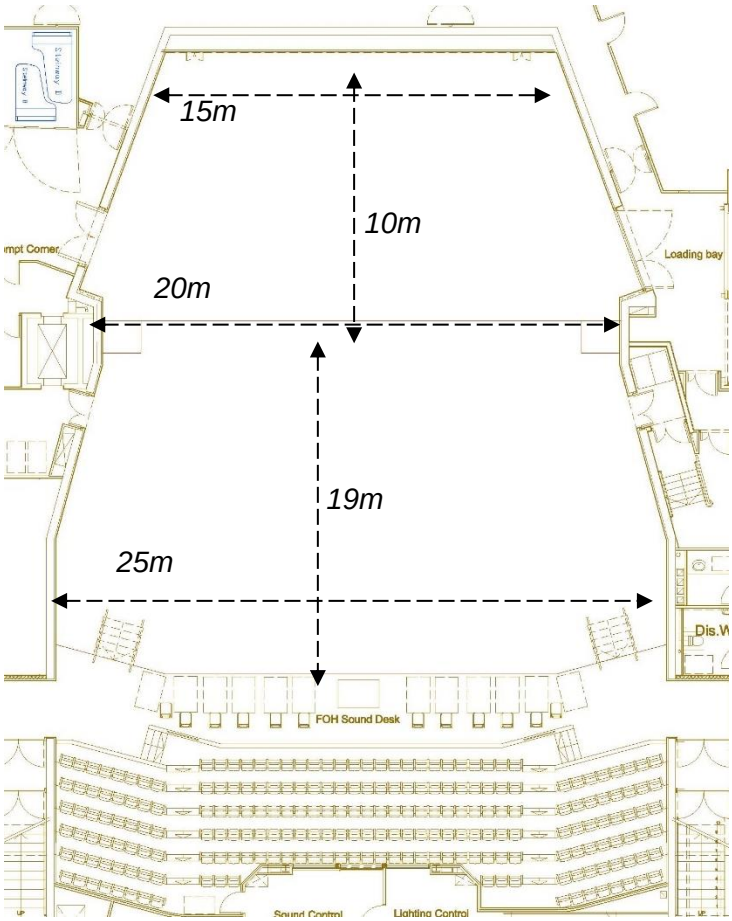
Standing “Mosh Pit” Format

20m (65’) wide at Front

15m (49’) wide at Rear

10m, (32’) deep

19m x 25m Standing area



The main auditorium accommodates 1622 in this format

941 in the standing area*

261 in the raised stalls

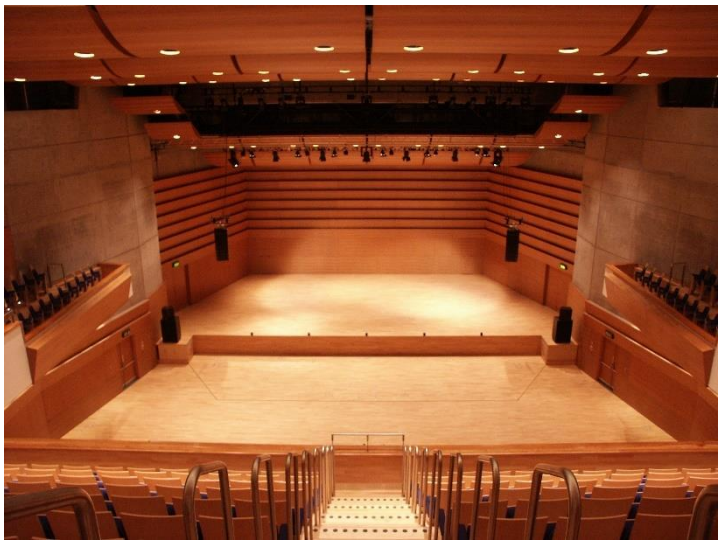
420 in the balcony

n.b actual seat numbers may depend on final layout, disabled seating and technical requirements. Please check with your advance team.

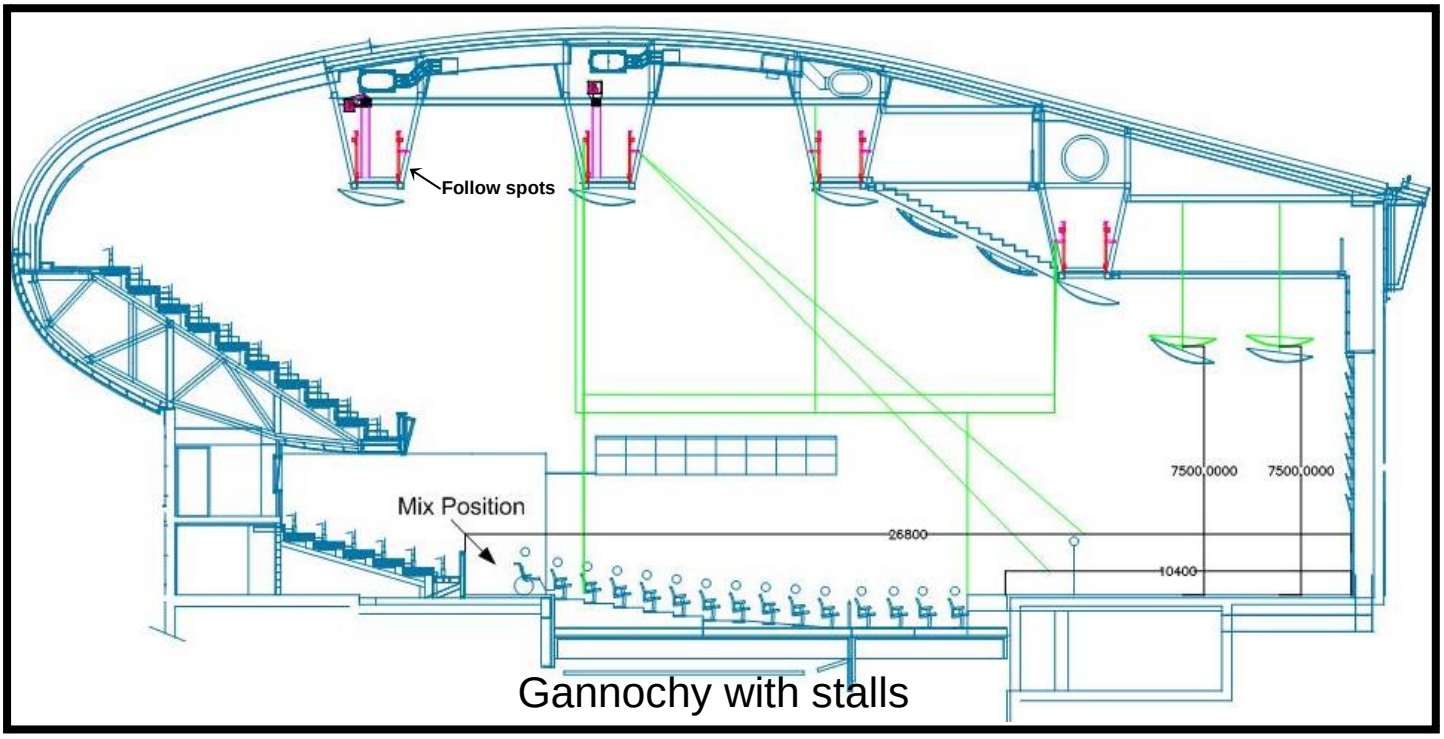
This format is available in either open “classical” format or Black box.

This format requires a large format change and additional charges may apply. Please check with the technical team or your contract.

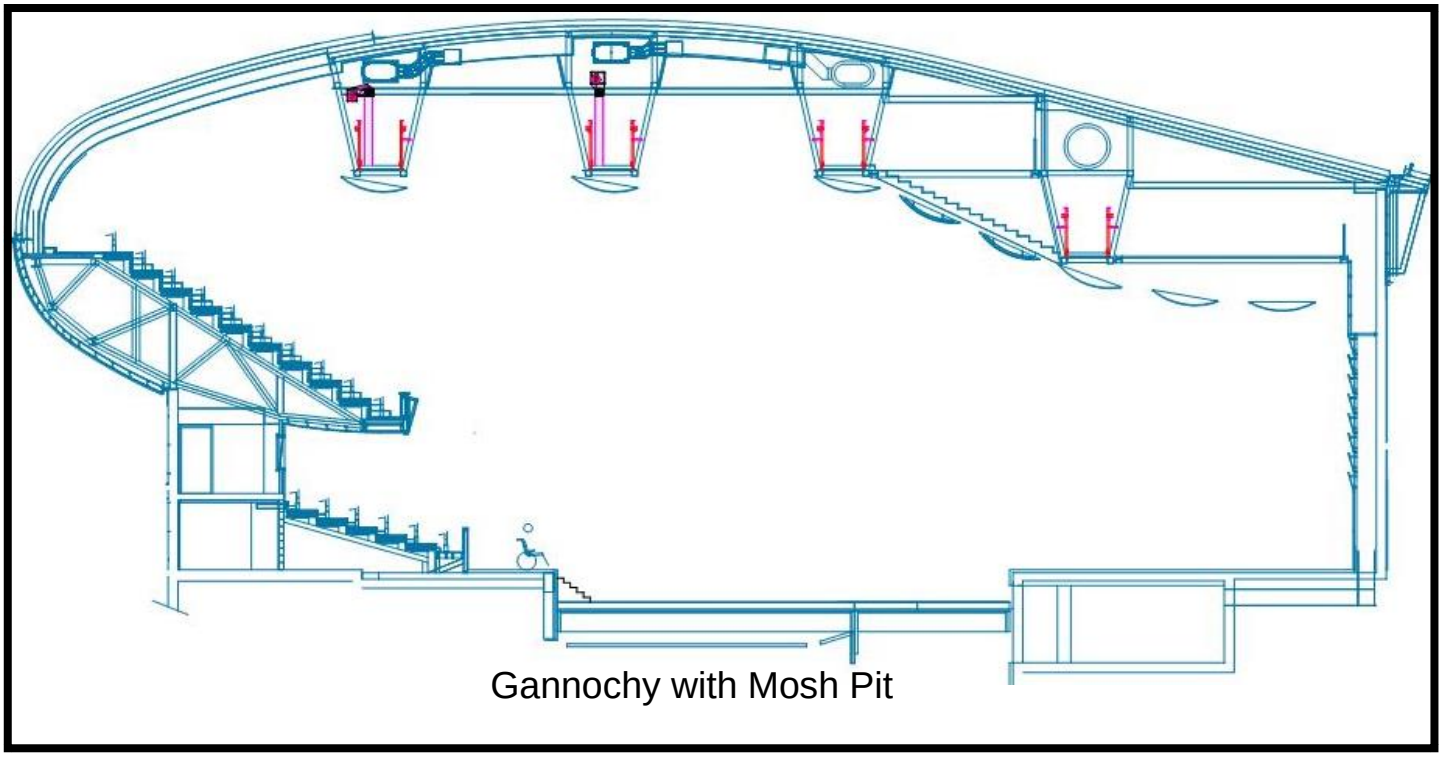
***Note this number is based on there being no obstructions or PA on the floor. If you wish to place PA or other items on the floor you MUST advise Horsecross before the show goes on sale.**



Gannochy Auditorium – Side Elevations

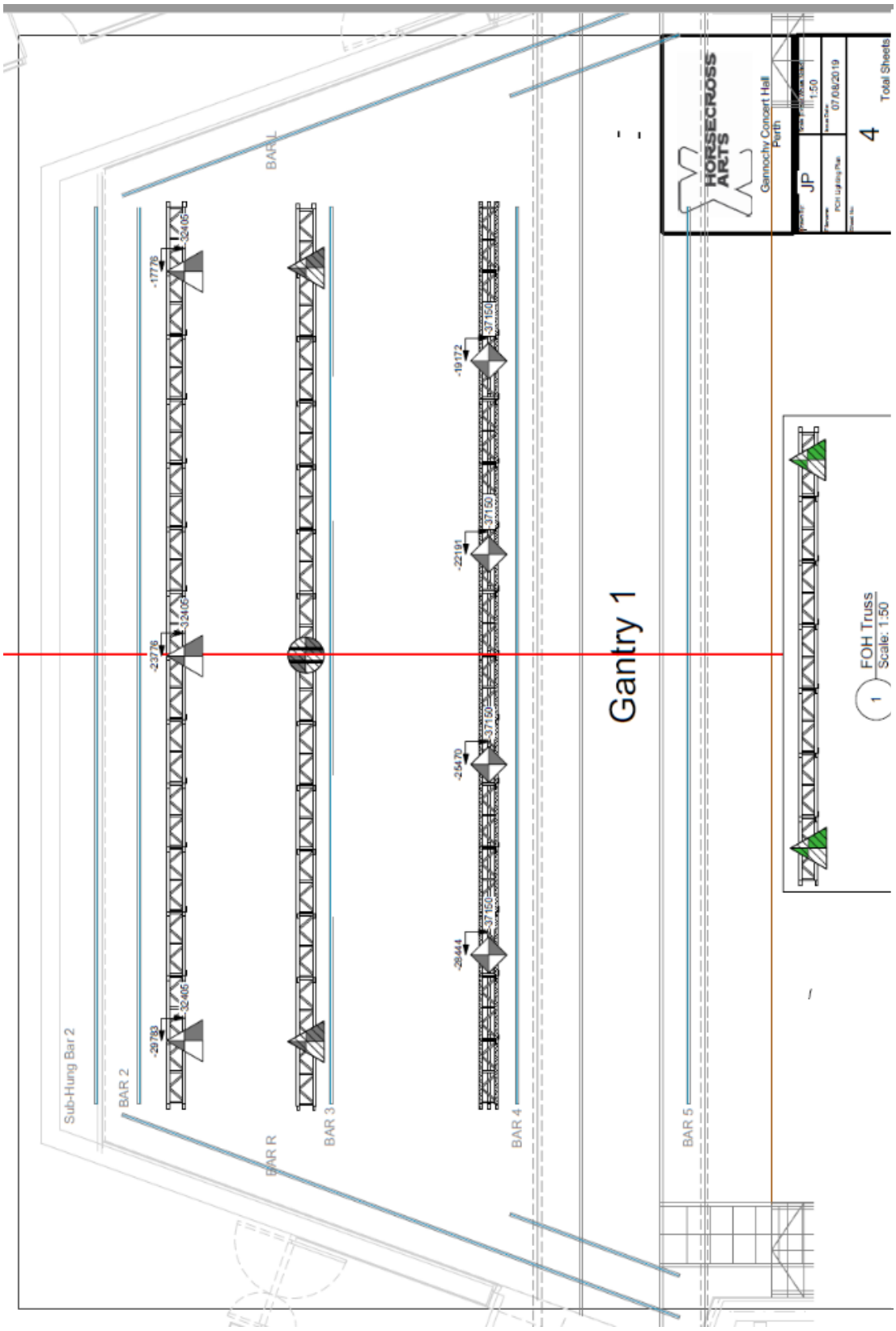


Gannochy with stalls



Gannochy with Mosh Pit

Gannochy Auditorium – Rigging and Flying Plan



SWL

US Truss
240kg/640kg SS

MS Truss
240kg/640kg SS

DS Truss
220kg/500kg SS

FOH Truss
740kgs

PA
2000kgs
Points are 6m either side of centreline

Gannochy – Lighting and Electrics

Temporary Power

The following temporary supplies are available on the Gannochy Stage

3 x 200A TPN *(Three Phase & Neutral)* (Powerlock) under stage SR, DSL + Broadcast Cabinet.
2 x 125A TPN(C-form) both sides of the stage USL & USR
2 x 63A TPN(C-form) both sides of the stage USL & USR
2 x 32A TPN(C-form) both sides of the stage USL & USR
2 x 125A single phase (C-form) both sides of the stage USL & USR *(clean earth)*
2 x 63A single phase (C-form) both sides of the stage USL & USR *(clean earth)*
2 x 32A single phase (C-form) both sides of the stage USL & USR *(clean earth)*

- **NOTE: Total load limited to 400A *(inc use of broadcast supply)***

Horsecross Arts expects all temporary distribution to be installed in accordance with BS7671 & BS7909. This includes the provision of an electrical completion certificate for all events requiring more than 6kva* before the commencement of sound check.
If you are unable to provide this house technicians undertake a test on your system at the charge of £250.

Lighting bars

Please note that our LX bars are numbered from US to DS. LX 1 therefore is the most US bar with LX 6 sitting over the thrust.

We DO NOT clear our standard lighting bars. It can be arranged to do so, however this carries a significant charge.

Standard Bar loadings

	Current Load	Max Load
LX 1	Used for hanging drapes. Not suitable as a LX position.	
LX 2	200kgs	750kgs (max 50kgs per m)
LX 3	300kgs	750kgs (max 50kgs per m)
LX 4	260kgs	750kgs (max 50kgs per m)
LX 5	50kgs	750kgs (max 50kgs per m)
LX 6	150kgs	750kgs (max 50kgs per m)

Touring shows wishing to hang additional lights can do so either by underslinging our bars or by the addition of trusses.
Perth Concert Hall can provide two trusses the full width of our stage each with a SWL of 800kgs UDL. Please advise during your advance if you wish to have these in place and discuss with the technical team where you would like them. Trusses will be pre-rigged for your arrival and are charged at £75 per truss.

Equipment weights

Martin Mac 250	22.4 kgs	Pacific 20 degree	9.4kgs
VL1000	32kg	Pacific Zoom	9.9kgs
Source 4 Par	3.6kgs	Source 4 750w	6.3kgs
Generic Parcan	3.4kgs		
Nova	21.8kgs	IWB	10kgs
Selecon Fresnel	5.4kgs	StudioCOB LED	5kgs

Lighting Equipment

The following lighting equipment is available at Perth Concert Hall. It may be possible to supplement this equipment from the mobile Horsecross lighting stock shown here, subject to availability. Please contact us for more information.

Item	Location	Number
ETC Cobalt 20 Lighting Console		1
ETC Sensor 3 Dimmers		144 ways
StudioCOB LED Par (IRGBS fixture)	Rigged overstage	24
StudioCOB LED Par (IRGBS fixture)	On floor stands	4
ETC Source 4 750w Par WFL	Rigged overstage	36
Selecon 80v Pacific 12/28 1200w Profile	Rigged Front of House	4
Selecon Pacific 12/28 800w Profile	Rigged Front of House	26
Strand 10 Degree SL Profile	Rigged Front of House	2
Selecon Pacific 20 Degree	Rigged Front of House	10
Generic Parcan 1000w – CP62	Rigged overstage	24
Selecon Rama 1.2k Fresnel's	Rigged overstage	12
Robert Juliat Super Korrigan followspot	Rigged Gantry 4	2
ETC Source 4 750w 26 Degree	Rigged FOH Slips	6
ETC Source 4 750w 19 Degree	Rigged FOH Slips	2
Martin Mac 250	Rigged Overstage	4
Pea Soup Hazer c/w Fan	Rigged on Gantries	1

Gobo holders and Iris are available for the above lanterns. Please discuss your needs with the technical team.

Please see our lighting plan in the venue advance pack for more detail on our current rig layout.

Haze

The Gannochy auditorium is fitted with state-of-the-art air handling systems to ensure the comfort of our guests. This system however causes haze produced at stage level to hang a few feet above stage level. We highly recommend that the house hazer is used to create the correct look. There is no charge for this.

For a list of additional LX equipment please see our shared resources at the end of this document.

Gannochy – Audio

The Gannochy auditorium is acoustically designed to minimalise the need for amplification of vocal and classical instruments.

The auditorium is fitted with a D&B Full range PA System, managed over a DANTE network. The system is capable of an undistorted 126dB +/- 2dB across the auditorium.

The main PA arrays are installed on hoists DSL&R, tours and shows are more than welcome to use the house PA at no extra charge, or the PA can be flown out if you wish to use your own flown system. If you wish for our PA to be removed there is a charge of £500

Main PA

2 8 Speaker D&B Y-Series passive arrays

2 D&B E8 rear stalls delays

2 D&B E4 rear stalls delays

6 D&B E8 front stage fills

6 D&B E4 alternate front stage fills (not recommended for amplified sound)

8 D&B Y-Subs

4 D&B 30D 4way amplifiers

Control Consoles

Yamaha CL5 Digital Console (Primary FOH Desk)

Midas Pro2 Digital Console (Primary Monitor Desk)

Yamaha Rio Stage Box 32/16

Yamaha Rio Stage Box 16/8

Multicores

4 20m 8way Multi (stage distribution)

2 10m 16way XLR Multi

1 15m 8way XLR Multi

For a list of loose audio equipment please see our shared resources at the end of this document.

Gannochy – AV & Projection

The Gannochy auditorium is fitted with custom specified AV equipment capable of handling 4K video. The system includes projection, remote camera systems, vision mixing from all sources and recording functionality. We are also able offer the facility to stream your event online.

Projection (Use of these items may incur additional charges)

1 Panasonic RZ 12K LED Laser Projector with D75 LE30 HD Lens

1 16:9 2.4m x 6m Front Projection Screen

Computing

PC1: Windows 10, Running office 365 & ATEM Software

PC2: Windows 10, Running office 365 & ATEM Software

Mac Mini: Running Keynote, Office 365, Final Cut Pro, Qlab

All computers are fed into our vision mixing system. Content can be displayed through the building as well as displayed in the auditorium.

Cameras (Use of these items may incur additional charges)

3 Panasonic AW-UE70 PTZ with RP120GJ controller operated from prompt corner. These are located auditorium Centre, stage left and stage right.

1 Sony FS5 Camera with various Lens'

1 Cannon HDV 1080i Camera with tripod

1 Blackmagic Micro Studio camera with tripod

All cameras are fed into our vision mixing system. Content can be displayed through the building as well as displayed in the auditorium

Distribution

The system is managed by a Black Magic smart hub 20x20 with flexible routing to most displays in the building

Recording & Streaming (Use of these items may incur additional charges)

Hyperdeck studio pro video recorder records from specified outputs from the ATEM system on to SSD drives at 720p or 1080i

Teradeck VidiU streamer which can stream from specified ATEM mixed output with embedded audio.

Gannochy - Staging and Scenic

Truss and Motors

The following truss can be rigged to provide additional rigging for events.

Trusses are installed in fixed positions as shown on the rig plan. These can be moved with advance notice but in incur additional charges.

3m Slick Lightbeam Truss	9
2m Slick Lightbeam Truss	3
1m Slick Lightbeam Truss	3
0.5m Slick Lightbeam Truss	2
Corner Sections	6
Steel Bases for slick lightbeam	6
3m Prolite Ladder Beam	6
2m Prolite Ladder Beam	1
Stage Maker 445kg Hoist (Cat A)	2
Stage Maker SM5 500kg Hoist	5
Stage Maker SM5 1000kg Hoist	1
Prolift 250kg Hoist	4

Please note that all rigging must be installed by house technicians or NRC riggers. It is essential therefore that rigging is booked in advance.

Steel Deck

The following additional rostra is available at Perth Concert Hall
14no 8’ x 4’
12no 8’ x 2’
14no 6’ x 4’
4no 6’ x 2’
2no 4’ x 4’
2x 4’ x 2’
2x Wheel Chair Ramp

Drapes

The following drapes are available at Perth Concert Hall. It may be possible to source other drapes from the Production stock at Perth Theatre, however these are show specific and MUST be booked in advance.

	wxd	
BWS Legs	3m x 8.5m	6
BWS Drapes	9.5m x 8.5m	2
BWS Drapes	8m x 8.5m	2
BWS Drapes	3m x 6.1m	2
Truss Borders		2
White Cyc	15m x 8.5m	1
Black Cyc	Not full width	1
BWS Borders for acoustic baffles		2

Perth Concert Hall has one Overlap Curtain track. 14m wide.

Stage Furniture (These items must all be pre booked)

Black Dance / Stage Floor for Main Stage	1
Black Dance Floor for Thrust	1
Steinway D (9ft) Concert Grand Piano**	1
Steinway Upright Warm Up piano	1
RAT Music Stands with lights	50
Manhasset Music Stands	75
K&M Music Stand Lights	30
Black Cat Soloist chairs	1
Conductors Podium	2
Fixed height lecterns	2
Adjustable height lectern	1

**These items may carry additional charges

Gannochy – Stage Management

Prompt Corner

Perth Concert Hall has a custom build Stage Management station c/w 40” Monitor with moving camera view of the stage and 2x 7” patchable preview monitors.

The station is fitted with backstage call system which can also make individual calls to FOH, specific dressing rooms, conference suites and other spaces.

The Station is fitted with a two way comms master station

The JL Cooper small desk also gives the ability to control up to 8ways of Sound or Lighting faders and 8ways of lighting buttons.

Communications

Ampetronic phased loop array system
3 Wireless comms packs
Stage relay system (audio and video) to all dressing rooms and breakout spaces.

Gannochy – Dressing Rooms

The Gannohcy Auditorium has three dedicated dressing rooms;

Each dressing room is equipped with clothes rail, mirrors, en-suite toilet & shower, fridge and coffee facilities.

Each dressing room is on the ground level a short distance from prompt corner & stage.

Almond Dressing room – 6 Persons Max
Tummel Dressing room – 4 Persons Max
Dochart Dressing room – 4 Persons Max

In addition, our two multipurpose rooms can be used as dressing rooms. Please ensure you book these as part of your advance.

Each room has clothes rails, mirrors and en-suite toilets & showers

Tilt Room – 40 Persons Max
Earn Room – 25 Persons Max

If required the Norrie-Miller studio and Tay Suite can also be made available for backstage facilities including dressing rooms, warm up rooms and green rooms. These rooms are also used by our conference guests so must be booked in advance. Additional charges may apply, please check when advancing your show.

Tay Suite – Set up meeting room/office style – 16 Persons Max
Norrie-Miller – 100 Persons Max (can be split into 2x 40 person rooms)

All rooms have show relay TV with audio. All rooms have show relay and backstage announcements.

Gannochy – Backstage facilities.

Laundry

Perth Concert Hall does not have dedicated laundry or wardrobe facilities. Basic facilities are located in the technical store area just off stage left

1-5kg Washer 1-7kg Tumble Dryer 3- Ironing boards and steam irons

It may be possible to make use of Perth Theatre's extensive wardrobe facilities, however this is strictly by arrangement.

Kitchen

The Braan Kitchen is located just off stage right and can be made available for tour catering if required. This should be booked in advance and charges may apply.

The kitchen is fitted with;

1x Blast chiller, 1x small microwave, 3x prep tables, 2x food wash sinks, 2x dish washing sinks, 1x dishwasher, 1x food mixer, 1x blender & limited freezer space

It is not possible, under any circumstances, to provide or allow the use of gas or electric hobs!

Norrie-Miller Studio

The Norie-Miller Studio is a small studio with a maximum capacity of 150 people standing and 90 people sitting comfortably (depending on layout and presentation)

It is a multi-purpose space which can be used as a stand-alone performance space, conference room, break out room, rehearsal/workshop space or large dressing room.

The space can also be split into two, either as two conference rooms or two dressing rooms.

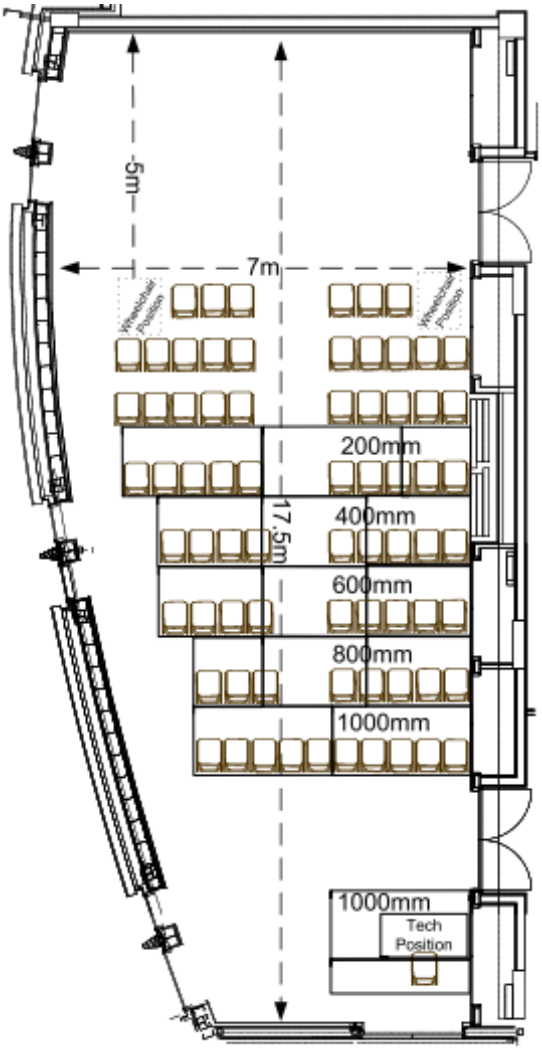
In all versions High Quality lighting, AV, stage or FOH calls can be routed/used making the space extremely adaptable. Installed equipment includes:

Panasonic PT-RZ770z Projector with motorised Zoom Lens PLV-70
16:9 motorised Electric Screen (front projection only)

Dell Laptop and/or Mac Mini

TVOne Corio allowing both audio and visual inputs from Dell Laptop, Mac Mini, CD Player, DVD player, and Laptop at lectern to be projected and played into space.

All the above is controlled via JL Cooper Control surface/desk or QSys Wall Panel including lighting, black-out blinds, and projector.



Perth Theatre

Access & Parking

There are no provisions for personal parking at the Theatre. Vehicles must be removed from the Loading Bay immediately after Load in where applicable.

Access to the main stage is on ground level at the same as the dock.

Dock is at ground level so ramps or tail lifts are recommended

Please be aware that Perth Theatre is a very busy venue and there may be other companies performing at the same time, as well as the in-house staff, and sharing the backstage facilities

Shore Power

1x 32/1 at dock.

Capacity

Full Auditorium	473
Stalls	234
Circle	165
Gods	74

Perth Theatre - Stage

Rake Stage 1:24
Stage Floor: Soft wood on timber joints, hardboard covering, painted black, fixings permitted.

2-part Safety Curtain

Height of Proscenium Arch:	8.276m
Height to bottom of Fire Curtain:	6.740m
Height of Proscenium opening:	6.400m (bottom of pelmet)
Width of Proscenium opening:	7.400m
Maximum Stage Width:	16.000m
Maximum Stage Depth:	9.050m
Width between Fly Floors:	9.800m
Forestage Depth:	1.400m (front to Prosc line)
Stage Floor to Grid:	13.450m (downstage)
Upper Fly Floor	6.890m (downstage)
	6.530m (upstage)

Removable Stage Sections (Traps) Approx. 1220mm square

NB: The inhouse safety barrier must be deployed across the apron during all fit ups and rigging sessions. Only the Theatre's Stage Supervisor can assess when it is safe to remove this barrier.

Stage Materials

Item	Material	No.	Colour	Dimensions (wxd)
House Tabs	Velvet	1	Red	5.3 x 6.96m
Prosc Velvet	Velvet	1	Red	
Border Wool		3	Black	10 x 2.5m
Border Wool	Serge	11	Black	9 x 3m
Border Wool	Serge	11	Black	8.5 x 2m
Border Wool	Serge	11	Black	8.5 x 1m
Border Wool	Serge	11	Black	8 x 1.5m
Border Wool	Serge	1	Black	7.25 x 1.5m
Legs (Pair)	Serge	1	Black	2.5 x 6m
Legs (Pair)	Serge	1	Black	2.5 x 2m
Legs (Pair)	Serge	1	Black	2.44 x 6m
Legs (Pair)	Serge	1	Black	2 x 7.15m
Legs (Pair)	Serge	1	Black	1.5 x 5m
Legs (Pair)	Serge	1	Black	1.5 x 3.5m
Tabs	Serge	1	Black	6 x 6m
Drape		1	Black	8.5 x 7.5m
Drape		1	Blue	8 x 6m
Cyc	Filled Gauze	1	White	9 x 6m
Gauze	Sharktooth	1	White	8 x 6m
Gauze	Sharktooth	1	Black	8 x 6m
Masking Flat	Serge	6	Black	1.6 x 4.9m
Masking Flat	Serge	4	Black	1 x 3.5m

Get in Access

Door to internal dock - Height: 2750mm
Width: 3345mm

Internal Dock – Height: 2900mm
Width: 3300mm

Narrowest turn point to stage Width: 2800mm

Dock Door onto stage - Height: 3400mm
Width: 3400mm

Turning Circle: Maximum 6000mm x 2750mm

Prompt Corner

Prompt desk situated SR, fitted with

- Video show relay
- infra-red monitor camera (Sony SSC-DC693P, f3.5 – f8 zoom lens) situated centre below Dress Circle.
- 12 way cue light system (inc., LX, SND, Flys & Followspot)
- Show relay and calls to FOH & BOH
- Loop system

Comms

6 x Sennheiser SR2020D radio comms
wired comms

Flying

37 Counterweight Bars (three-line suspension system)
1 Motorised back bar

Bar Length:	8.800m (average)
Safe Working Loads:	300kg
Flying Depth:	8.000m (iron line to last line)

Please be aware that the counterweight system can only be operated by house technicians. Please discuss as part of your advance.

Orchestra Pit

Nil, but first three rows of the auditorium can be removed
Pit depth with row 1 removed: 1.500m
Pit depth with rows 1 & 2 removed: 2.500m
Pit depth with rows 1 – 3 removed: 3.500m
Stage height from Auditorium floor: 1.400m
2 x pit treads (auditorium left and right) to stage apron can be installed if required.

Perth Theatre - Lighting and Electrics

Perth Theatre does not have a fixed lighting rig. Rigs can be requested to be made up from any equipment in our shared resources. Please see a full list of these items here

2x 125/3 Temporary supplies available in upper SL Fly floor
1x 125/3 Temporary supply available SR

Horsecross Arts expects all temporary distribution to be installed in accordance with BS7671 & BS7909. This includes the provision of an electrical completion certificate for all events requiring more than 6kva* before the commencement of sound check.

If you are unable to provide this house technicians undertake a test on your system at the charge of £250.

Dimming & Control

Perth Theatre has 72 ways of ETC Sensor dimmers controlled via an ETC Gio.
The system is supported by ETC Paradigm for house light control.

Followspots

2x Robert Juliat Topaze	inc. Stands, Colour Magazine and sights
2x Pani 1200 HMI	inc. Stands and colour magazine
2x Selecon 1200	alternative to Pani 1200, individual dimmers available.

Effects

Perth Theatre can make both smoke and haze machines available upon prior booking. Fluid is charged at cost price.

Perth Theatre – Audio

Main PA

5 x EM Acoustics Halo C (Centre Cluster)
2 x EM Acoustics EM81 (Stalls L&R)
2 x EM Acoustics EM81 (Circle L&R)
2 x EM Acoustics EM61 (Upper L&R)
2 x EM Acoustics EM151 (Stalls Subs)
2 x EM Acoustics EM151 (Upper Subs)
6 x EM Acoustics EM61 (Stalls Delay line/3 feeds)
4 x EM Acoustics EM61 (Circle Delay line/2 feeds)
2 x EM Acoustics EM61 (Front Fills/1 feed)
6 x EM Acoustics EM51 (Stalls Surround/ Left, Rear, Right)
6 x EM Acoustics EM51 (Circle Surround/ Left, Rear, Right)

Control Desks

Yamaha QL5

Onstage Monitors

There are no dedicated on stage monitors. These must be booked in advance. Please see our shared resources at the end of this document.

Microphones

There are no dedicated microphones. These must be booked in advance. Please see our shared resources at the end of this document.

Playback

Qlab V4
Mac Mini with Virtual sound card

Wireless Microphones

There are no dedicated wireless microphones. These must be booked in advance. Please see our shared resources at the end of this document.

Perth Theatre – AV

Panasonic Digital Projector and 6m x 4m Fastfold Projection Screen.
Projection throw is between 12m and 14.5m depending on position chosen in our Technical gallery.
The building is well equipped with data however has limited video tie lines.

Filming

Should you wish to film your production for archive purposes using multiple cameras you will be responsible for giving notice to FOH Manager and Technical Manager as soon as the date of filming is known and no later than 2weeks prior to filming. Seats may need to be blocked off and subject to availability. If the Manager is not informed within the time stated, the filming may be prohibited.

Perth Theatre – Dressing Rooms

*DRESSING ROOM 1 *GROUND FLOOR - ACCESSIBLE*	2 people	Ensuite
DRESSING ROOM 2 *GROUND FLOOR*	2 people	Ensuite
DRESSING ROOM 3 *GROUND FLOOR*	5 people	Sink in room, toilet and Showers opposite
DRESSING ROOM 4 *GROUND FLOOR*	5 people	Sink in room, toilet and showers opposite
DRESSING ROOM 5 *GROUND FLOOR*	5 people	Sink in room, toilet and showers opposite
DRESSING ROOM 6 (*IF REQUIRED*) *FIRST FLOOR*	10 people	Toilet, sinks and showers opposite
DRESSING ROOM 7 (*IF REQUIRED*) *FIRST FLOOR*	4 people	Ensuite
DRESSING ROOM 8 (*IF REQUIRED*) *FIRST FLOOR*	12 people	Toilet, sink and showers nearby

Perth Theatre – Wardrobe

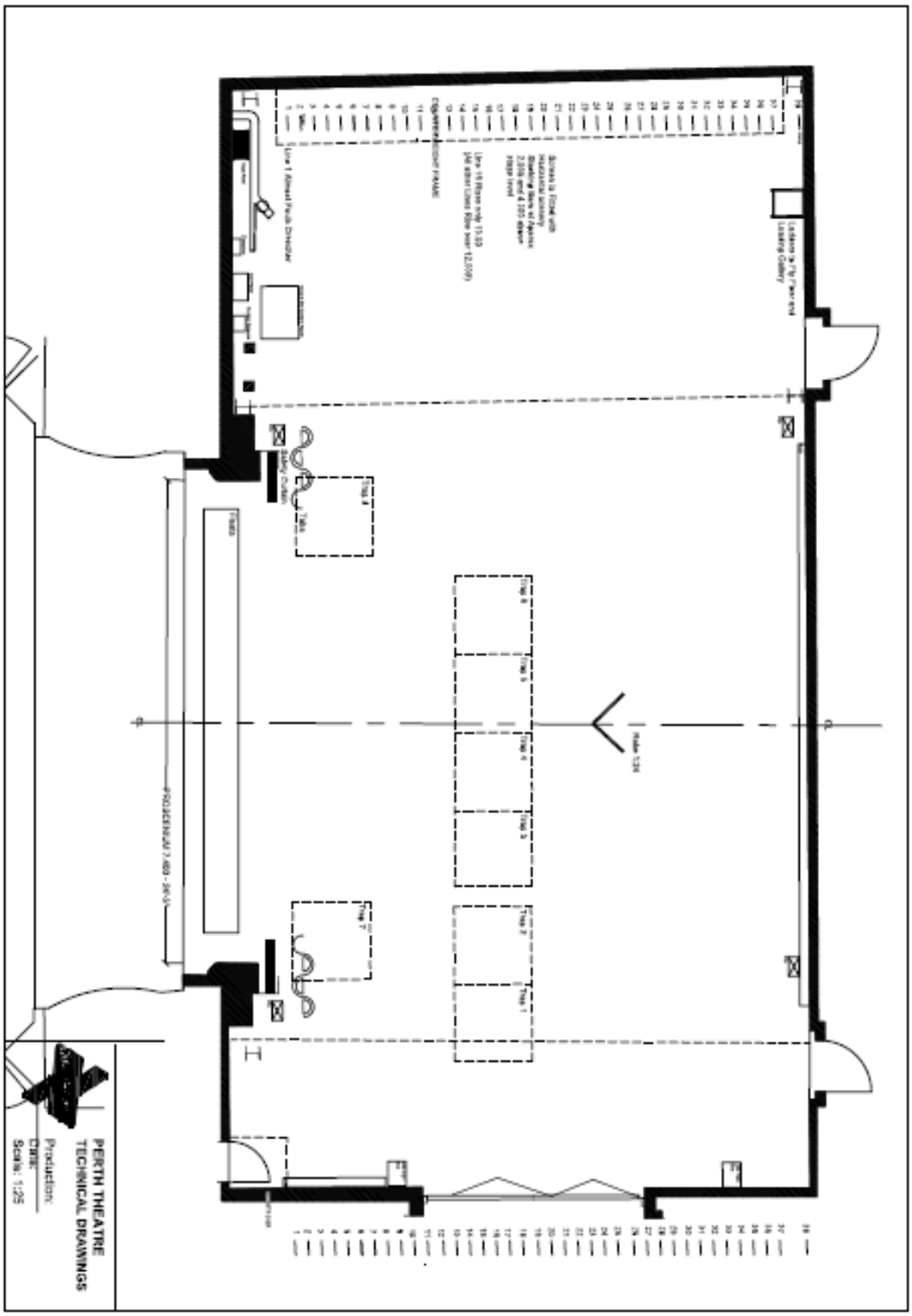
Situated on the 2nd floor the wardrobe department is accessible, for equipment, by a large goods lift. Laundry facilities including access to sewing machines, and a maintenance area is available with prior arrangement:

- • 1 industrial washer, 1 industrial dryer
- • 1 domestic washer, 1 domestic dryer
- • Drying cabinet
- • Spinner
- • Iron and ironing board

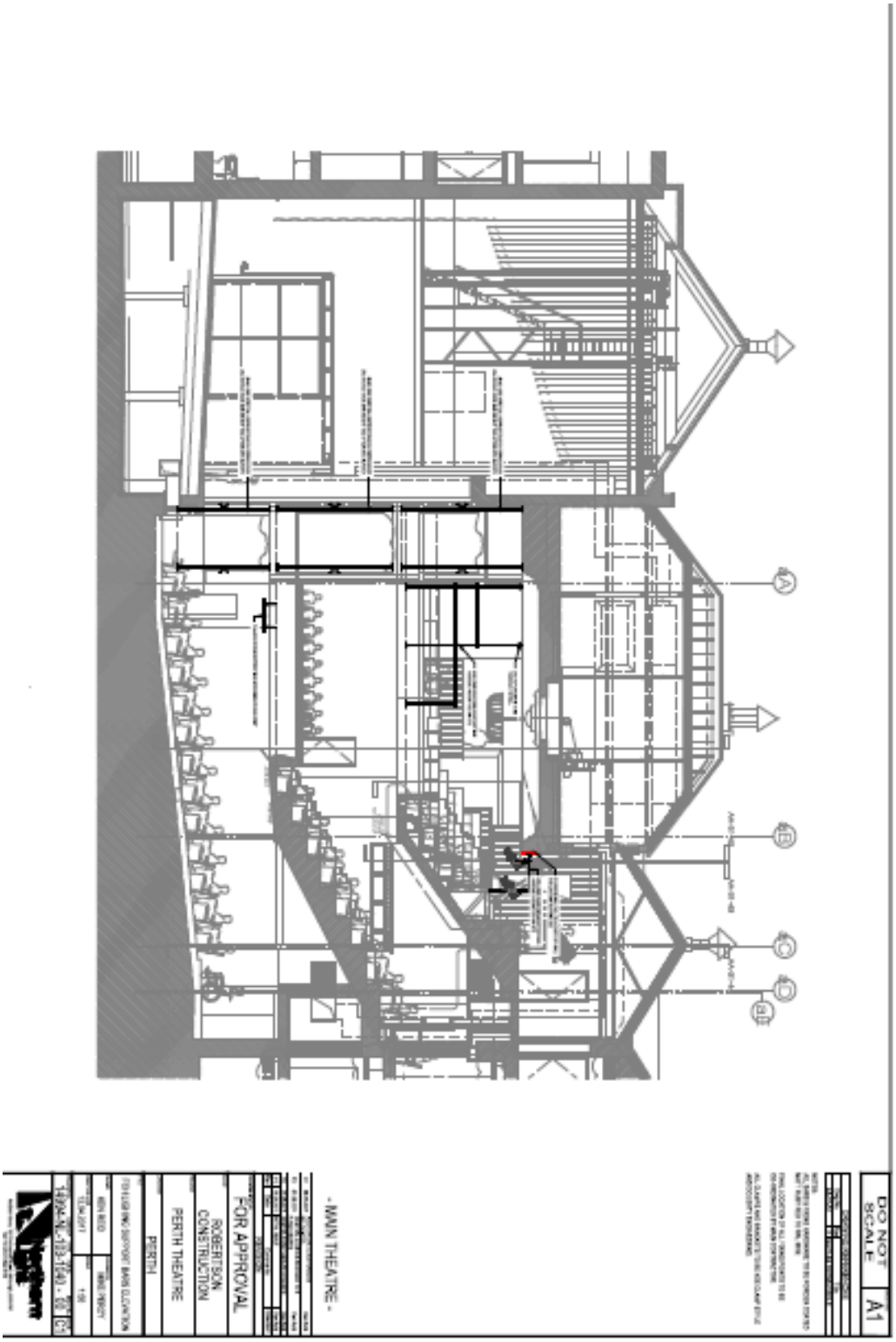
Additional wardrobe assistance is negotiable, however will be charged. Please discuss in advance.

Perth Theatre – Plans

Main Stage



LX Elevation



Joan Knight Studio

The Joan Knight Studio is the newest addition to the Horsecross family of spaces.

The space has a capacity of 201.
(Seating bank: 140, Balcony: 33, Loose seated: 28)

Joan Knight - Stage

Flat Floor - Wooden sprung floor with black dance floor overlay
(NB: unable to screw anything to this floor as underfloor heating is laid throughout)

Studio	Narrowest point – 1860mm point – 1860mm
Studio Dock Door:	Height: 2400mm
	Width: 2416mm (diagonal: 3100mm)
Room Dimensions:	Width: 13.5m
	Depth: 17m
Stage Dimensions:	Width: 8.5m *(approx.)*
(full seating)	Depth: 5m *(approx.)*
Truss trim	Height of 5.5m
SL Wing Space	1.8m
SR Wing Space	1.8m

Wing height under balconies 2.7m
NB: Due to the black serge masking being situated down the back wall of the playing area there is no cross over option unless included within your set up.

Staging

Information of staging and rostra available on request

Get in Access

Get in as per main stage then: access to our Studio Theatre for scenery is via a service lift.

Lift Access (to 1st Floor)	Width: 1.760m
	Depth: 2.839m
	Height: 2.775m
Safe working Load:	1500kg

Prompt Conner

Shows operated from control room fitted with Cue Lights & Show Relay/Paging

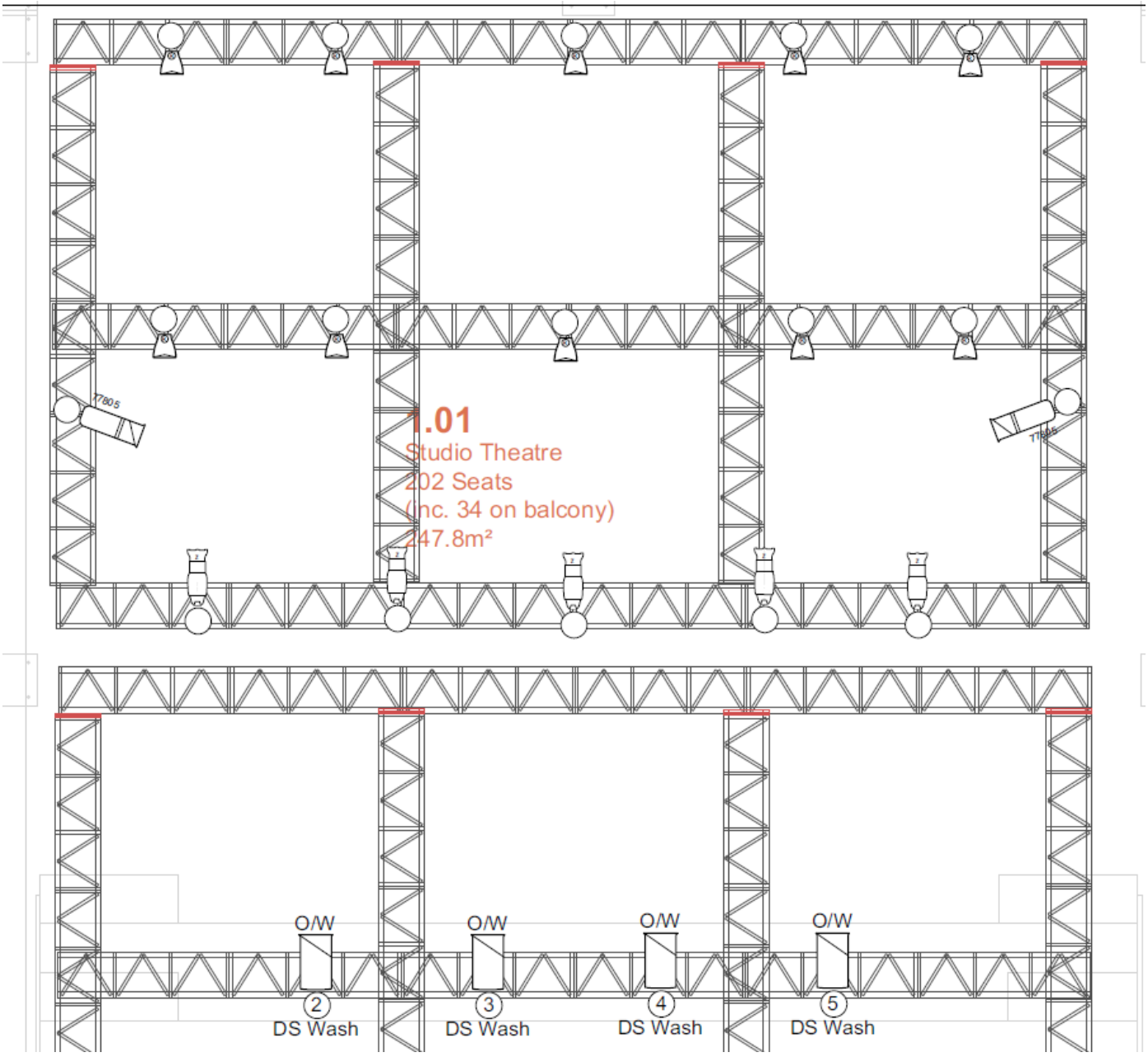
Seating

Modular seating either in or out plus some loose seating and gallery

Joan Knight - Lighting & Electrics

The following equipment is installed in the Joan Knight Studio.

Item	Location	Number
ETC Ion Console		1
ETC Sensor 3 Dimmers		72 ways
StudioCOB LED Par (IRGBS fixture)	Rigged overstage	4
ETC ColorSource Pars	Rigged over setting line	5
Selecon Rama 1.2k Fresnel's	Rigged overstage	4
ETC Source 4 JNR 25-50	Rigged FOH	10



Joan Knight - Audio

The Studio is fitted with a left and right Meyer M1D array. Each array has 5no Full range cabinets and 1no M1D Sub. This can be set up in a standard Left, Right, Subs and Fills format or for 5.1 surround sound.

The system is controlled over Dante from Yamaha QL1.

The Arrays can be removed when required, however please note there is a charge of £500+vat for this.

Additional audio can be provided from shared resources shown at the end of the document.

Joan Knight – Video

Screen	Width: 5m Drop: 2.8m Projection throw is approx 15m
Projector	Panasonic PT-RZ970
Control & Playback	Qlab

The Joan knight studio is equipped with Black Magic ATEM switching hardware which can be used to distribute from a variety of sources to the projector.

The venue has a Mac Mini and Windows PC for playback of content.

Joan Knight – Dressing Rooms

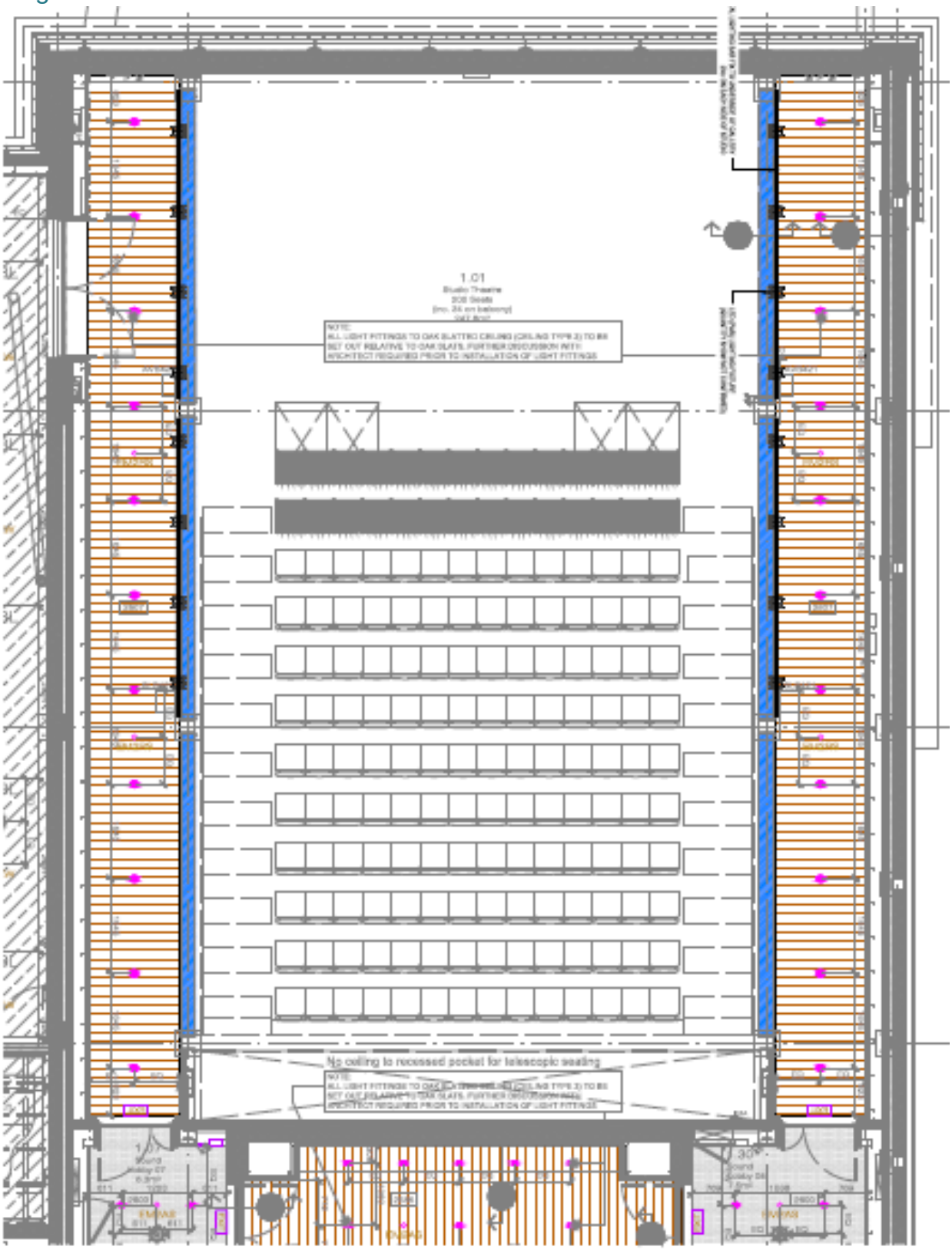
The studio has two dedicated dressing rooms. It may be possible to make use of the Theatre main stage dressing rooms, however this must be booked in advance.

*STUDIO DRESSING ROOM 1 *FIRST FLOOR - ACCESSIBLE*	3 people	Ensuite
STUDIO DRESSING ROOM 2 *FIRST FLOOR*	4 people	Ensuite

Joan Knight – Piano

A Steinway B, 7’ Piano is available in the Joan Knight Studio, subject to additional charges.

Joan Knight Studio – Ground Plans



Shared Resources, Equipment Rental & Technical Charges

Horsecross Arts can make available the following equipment for users of our spaces. In order to offer reasonably priced rentals, to those who do not require the use of this equipment, the technical equipment listed carries additional costs as indicated and is not supplied free of charge with the venue.

Prices are list price, please check your contract / with your booker for what is included in your booking. Package prices for equipment are available. Please contact the technical team.

It is important to note that unless marked with a specific venue this equipment is used across all spaces at Perth Concert Hall and Theatre and therefore **must** be booked in advance. It is reserved for performances or events on a first come first served basis.

Lighting Stock

Item	Notes	Charges (if applicable)
Profiles		
44x ETC S4 750w Body 8 x ETC S4 Lustr+ Body 18x ETC S4 S2 Tungsten Body 8 x ETC Colorsourcce Body 16 x S4 Junior Zoom 4 x Strand SL 10° 3 x Strand SL 5°	Lens: 12 x ETC S4 14Deg 13 x ETC S4 19Deg 12 x ETC S4 26Deg 6 x ETC S4 26Deg EDLT 19 x ETC S4 36Deg 6 x ETC S4 50Deg 8 x ETC S4 25/50	£40 per week or part thereof £30 per week or part thereof £20 per week or part thereof
Fresnels		
30 x Selecon 1.2K 7 x Strand Alto 2.5K 8 x ETC S4 Parnel 750w 2x Selecon Acclaim Fresnel's		
PC		
1 x Robert Juliat 2.5K 1 x Selecon Rama 1.2k		
Pars		
50 x Thomas PAR64 25 x S4 PAR 750w 24 x ETC Colorsource PAR 2 x Prolights COB 6 x Thomas six lamp bar	All lamp configurations available on request. All Lenses available on request 12 Barndoors available.	£20 per week or part thereof
Battens/Floods		
8 x ETC Colorsource 8 Deep Blue 8 x Strand Coda 3 10 x Strand Nocturne 14x Selecon Lui Floods		£30 per week or part thereof
Moving Lights		
6 x Varilite VL2500 profile 4 x Varilite VL2500 wash 8 x Prolights Reflex wash 6 x Varilite VL1100TS	1 additional spare available for all units	£60 per week or part thereof £60 per week or part thereof £60 per week or part thereof

Audio Stock

Item	Notes	Charges
Monitors		
12x EM Acoustics M-12 Monitors 2x Meyer USW1P Sub 2x Meyer 650-P Sub 8x Meyer UPJ Speakers 4 x d&B Max 12 4 x d&B e3 2 x d&B e18 12 x d&B e0 8 x Yamaha S20X	JKS only	£5 per day £5 per day £5 per day £5 per day £5 per day £5 per day £5 per day
Microphones		
13 x Shure SM58 3x Shure Beta 58 2x Sennheiser E935 10x Shure SM57 2x Shure Beta 57 8x AKG SE300B with CK91 Modules 4x AKG CK98 Modules 4x AKG CK97 CVR Gooseneck Capsules 2x AKG VR92 Extensions 2x AKG 414 Multipattern condenser 8x Neumann KM184 (4x Silver, 4x Black) 2x Neumann KMS105 8x Sennheiser 604E 1x Shure Beta 91A 2x Shure Beta 52 2x Audio Technica AT4049b 2x Audio Technica ATM33a 10x Shure Microflex Super Cardioid Gooseneck 10x Shure ES935 Gooseneck		£2 per day £2 per day £3 per day £2 per day £2 per day £2 per day £2 per day £3 per day £3 per day £10 per day £3 per day £3 per day £3 per day £3 per day £3 per day £3 per day £3 per day £3 per day £3 per day
Di Boxes		
10x BSS AR133 DI Boxes 5x KT DN100		£2 per day £2 per day
Radio Mics		
10x Shure ULX1 Body Pack Transmitter 6x Sony ECM 77B Capsules for above 2x Countryman Boom/Head mics for above 5x DPA fio66 boom/head mics for above 8x Shure ULXD2 Handheld for above 7x Beta 87a Capsules for above 3x SM58 capsules for above 16x Shure ULX receivers		All radio mics are charged at £25 per transmitter per day.

AV Stock & Services

Panasonic RZ 12K LED Laser Projector & 16:9 2.4m x 6m Front Projection Screen	Gannochy only	£400 per day or part thereof
PTZ Camera system	Gannochy only	£200 per day or part thereof
Sony FS5 Camera	Gannochy only	£100 per day of part thereof (not including operator)
Recording of event to SD Card*	Gannochy only	£75 per recording (upto 10hrs)
Recording of event to SSD	Gannochy only	£125 per recording (upto 3hrs)
Live streaming package	Gannochy only	POA
Preparation of AV content		£30ph
Provision of House laptop		£50 per day

Pyrotechnics

Horsecross arts can provide you with a custom pyrotechnics package for your event. Please get in touch with the technical team to discuss your requirements.

Furniture & Sundry

Chairs	
350 x Black Conference Chairs (Suitable for orchestras) 28 x Studio Chairs (Purple)	£nil £nil
Tables	
26x 6' Round Table 16x 5' Laminate Table 29x 5' Flocked Table 48x 3' Round Table	£nil £nil £nil £nil
Piano	
Steinway 9ft Steinway 7ft Steinway upright (outwith dressing room) Piano Tuning	£170 per day £90 per day £50 per day £120 per tune
Sundry	
Cleaning charge for confetti (Stage only) Cleaning charge for confetti (Whole auditorium) Charge for the use of non bio degradable confetti/glitter White Towels (cleaning fee) Black stage towels (cleaning fee)	£100 £300 £500 75p 60p

Rigging Services

House Rigger		£30ph
Moving of house trusses from default		£200 per truss
Removal of house PA	Gannochy only	£500
Removal of house LX Rig	Gannochy only	£1000
Installation house tabs (bar 5)	Gannochy only	£150
Installation of black cyc	Gannochy only	£100
Flying items in Foyer	Concert Hall only	£60ph

Supply of temporary power (Conference, Events & Exhibitions)

Please note that is a requirement of any person or organisation booking the use of temporary event power supplies to carry out their installation in accordance with BS7671 & BS7909. This includes the provision of an electrical completion certificate.

Perth Concert hall also has facilities to supply power to the Horsecross Plasa. Please contact us for prices.

Item		**Charge**
200A 3ph Powerlock	Concert Hall only	POA
125A 3ph		£200 per day
63A 3ph		£100 per day
32A 3ph		£50 per day
125A 1ph	Concert Hall only	£100 per day
63A 1ph	Concert Hall only	£50 per day
32A 1ph		nil

For Productions using 3rd party event production companies

If you plan to have your production delivered to by a 3rd party event production company, it is essential that we meet with them to discuss the plans for your day. Please let us know who will be delivering your event and the details of your production manager when confirming your booking.