



TECHNICAL SPECIFICATIONS

HARVEY THEATER

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Revised: January 31, 2018
Revised By: R. Gastelum

Brooklyn Academy of Music
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Introduction

BAM's technical specifications, seating charts, photos, stage drawings and more can be found on our private website. Email BAM's Director of Production for the site address and password.

Seating Capacity

Orchestra	593
Balcony	244
Total	837

The house seating capacity is reduced by 29 seats when the center vom is in use.

Contact Information

Phone: 718-636-4146

Fax: 718-857-166

Mailing Address	Loading Door	Stage Door
30 Lafayette Ave. Brooklyn NY, 11217	212 Ashland Pl. Brooklyn NY, 11217	212 Ashland Pl. Brooklyn NY, 11217

Labor

BAM is signatory to a collective bargaining agreement with the International Alliance of Theatrical Stage Employees. All stagehands at BAM are represented by I.A.T.S.E. Local #4. Wardrobe personnel are represented by the Theatrical Wardrobe Union Local #764. BAM has no union affiliation for hair and makeup or wig labor.

Load-In Area

The loading door is at street level. The stage is 56.75" (1.44m) above street level. The loading door is about 18' (5.5m) from the edge of the stage.

The loading ramp measurements are as follows:

Ramp Width	46"	1.17m
Height	11'-0"	3.35m
Ramp Max Weight	2,000lbs	900kg

International Freight

Normal U.S. Customs clearance usually takes 3-4 days But there can sometimes be added security holds which could delay clearance for another 4-5 days if they decide to X-ray the container(s), or another, additional two weeks if they decide to de-van the shipment for inspection.

While Customs does regularly see BAM as the consignee on a lot of theatrical shipments that do not have problems clearing Customs, and consequently will infrequently if ever go to the extra lengths to inspect our freight, it's always possible, and we will try to plan for the worst case-- so we suggest that a minimum of two weeks and preferably three would be advisable between arrival in New York and the needed load in date at BAM.

Open Flame and Effects

Companies coming into BAM must provide BAM with all necessary flame proofing documentation for their scenery, stage properties, and costumes, and information as necessary for all open flame effects, including the use of cigarettes, etc. It is understood and accepted that no open flame is allowed downstage of the proscenium setting line. BAM will make all reasonable efforts to obtain the appropriate open flame permits; however, the use of all open flame is at the sole discretion of the New York City Fire Department.

Stage Dimensions

Plans and Sections are available in AutoCAD, Vectorworks, and PDF (¼" imperial and 1:50 metric scale). Please allow a 3" or 75mm variance for all dimensions.

Please allow 6" or 150mm around all decorative elements and curved elements of the theatre. Critical measurements require a site survey.

Please note that the proscenium is curved, causing the maximum height and width (as indicated in the drawings) to be correct for only a portion of the proscenium opening.

Proscenium

Width	37'-11"	11.56m
Height	28'-10"	8.79m

Stage

The stage apron extends from the proscenium to the first semicircular row of seats.

Depth – US wall to first row at centerline	58'-7 ½"	18.89m
Plaster line to back wall	37'-3"	11.35m
Centerline to SR Proscenium Edge	18'-10 ¾"	5.76m
Centerline to SL Proscenium Edge	18'-11"	5.77m

Grid

Grid Height to Deck	64'-1"	19.5m
Batten Out Trim	61'-0"	18.6m

Wings

SR proscenium to SR wall	16'-0"	4.88m
SR proscenium to SL wall	20'-0"	6.09m
SR proscenium to SR pin rail	7'-2"	2.18m
SL proscenium to SL pin rail	6'-10"	2.08m
Total stage width, wing to wing	75'-0"	22.9m

Auditorium

Setting line to balcony rail	60'-0"	18.28m
Setting line to back of balcony	85'-0"	25.91m

Carpentry

Crossover

Onstage crossover dimensions are determined by the last lineset in use for a production. There is a crossover that runs beneath the stage. The entrances on stage are mid-right and UL.

Stage Floor

Constructed primarily of 4' wide by various length Staging Concepts platforms. These platforms are topped with (2) sheets of 1" marine plywood and finished with (1) sheet of ¼" Masonite. The top surface is painted semi-gloss black.

Black, White or Grey Marley flooring is available, see Props.

Platforms

All platforms are framed of 1x6 and can be legged up to any height.

12	4'x8'
2	4'x4'

Soft Goods

House Curtain

The Harvey Theater does not have a permanent house curtain. If a house curtain is required, the stock full black is hung one line set 2.

Legs

8	Pair black velour	8'-6" w x 32'-0" h	9.76m x 2.59m
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Borders

6	Black Velour	50'-0" w x 20'-0" h	15.24m x 6.1m
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Blackout Drops

1	Full stage black velour	50'-0" w x 32'-0" h	15.24m x 9.76m
1	Split velour blackout drop – each side	27'-0" w x 32'-0" h	8.24m x 9.76m

Scrim

1	White sharkstooth scrim	50'-0" w x 30'-0" h	15.25m x 9.15m
1	Black sharkstooth scrim	50'-0" w x 30'-0" h	15.25m x 9.15m

Bounces and Plastics

1	Natural, seamed	50'-0" w x 30'-0" h	15.25m x 9.15m
1	Natural, seamless	45'-0" w x 30'-0" h	13.73m x 9.15m
1	Plastic	45'-0" w x 30'-0" h	13.73m x 9.15m

Side Tabs

Black velour tabs are hung on traveler tracks running upstage-downstage beneath the fly floor on each side of the stage.

Stage Rigging

The fly system is a motor-supported Stage Technologies NOMAD motion control system (with e-Chameleon), operated from the SL fly floor.

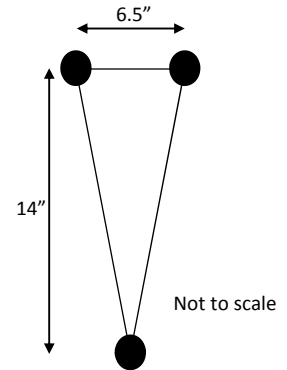
Total Line Sets

(32) Line sets with a capacity of 1500lb (680kg) each if evenly distributed across truss.

Maximum out trim is 61' (18.6m)

Battens (see diagram at right)

49' (14.95m) narrow "V" triangular trusses made of 1 7/8" outer diameter round pipe tubing.



FOH Lighting Truss

40' (12.19m) total length made up of (4) 10' sections of 20.5" x 20.5" medium duty tomcat box truss. Capacity is 4000lb (1814kg) if evenly distributed across truss. There are 3 pick points over the apron 10'-9-1/8" (3.28m) downstage of the setting line.

Lighting

Shared Inventory

BAM's moving light and LED inventory is shared between all of its venues. Please see Appendix A for a complete list of shared inventory.

Electrical Services

2	400 amp service at 120/208v 3 phase 60Hz*	Stage Left
6	100 amp service at 120/208v 3 phase 60Hz	Stage Left
2	100 amp services at 120/208v 3 phase 60Hz	Balcony HR

*One of the 400 amp services can be stepped up to 220/380v 3 phase 60hz via a transformer. When the transformer is used, the max amperage is 200amps.

Dimmers

ETC Sensor Dimmer Racks 120/208v 60Hz

- 426 dimmers at 2.4kw
- 24 dimmers at 5kw

ETC Sensor Dimmer rack 240/380v 60Hz

- 16 dimmers at 2.4kw
- 6 dimmers at 5kw

This is an ETC Net3 (sACN based) system with power over Ethernet. Theatrical lighting network taps are available in all technical locations around the various levels of the stage house and front of house positions on the balcony rail, control booth, FOH truss, and high side positions. Portable DMX / RDM Gateway nodes plug into any tap to provide 4-ports of DMX-512 and Remote Device Management protocols into or out of any port. Gateways are programmed via network computer to assign any of the ports in the system to any address in the system.

Control Console

Light Booth is located in the rear of the Balcony.

(1) ETC Eos Classic console with synchronized backup and the following features:

- Full featured moving and conventional lighting console
- NET3 (sACN based) network system with 32 DMX universes
- DMX input/output available via Ethernet ports and portable NET3 DMX Gateways.
- Offline programming on PC (Vista or XP) and native on Macintosh (OS X Power PC or Intel)
- Show data importing from Obsession, Express/ion, Emphasis and Strand 500/300 series show files via ASCII

House Lights

ETC Unison System controlled manually or programmable through Eos Lighting Console.

Lighting Positions

- (7) Overhead electrics – multi-cables allow repositioning
- (1) Balcony booth rail (12 circuits)
- (2) FOH Balcony SL, FOH Balcony SR (12 circuits each)
- (1) Balcony rail (36 circuits)
- (2) Torm SL and SR (circuiting as needed)
- (4) Upper boxes SL and SR (12 circuits each)
- (4) Lower boxes SL and SR (12 circuits each)
- (1) Truss position 10' - 9 1/8" DS of setting line (24 circuits)

Personnel Lifts

- Genie single lift, maximum platform height 36'-0" (13.08m)
- Genie single lift, maximum platform height 29'-6" (8.99m)

Instrument Inventory

18	5" Arri Junior Fresnels w/8-leaf barn doors	1kw
18	7" Arri T2 Fresnels w/8-leaf barn doors	1kw
18	6" Strand Fresnelites w/barn doors	1kw
10	8" Strand Fresnelites w/barn doors	2kw
14	10" Ianiro Bambino Fresnels w/barn doors	5kw
22	10° Source Fours	575w*
30	19° Source Fours	575w*
70	26° Source Fours	575w*
70	36° Source Fours	575w*
16	50° Source Fours	575w*
24	ETC Source 4 PARs <i>VNSP, NSP, MFL, WFL and some XWFL lenses available</i>	750w
62	PAR64 Cans (<i>VNSP, NSP, MFL, and WFL lamps available</i>)	1kw
2	Arri Daylight Compact 2500 HMI Fresnel w/Juliat Jalousie DMX dimming shutters & 8-leaf barn doors	2.5kw
2	Arri Daylight Compact 4000 HMI Fresnel w/ Juliat Jalousie DMX dimming shutters & 8-leaf barn doors	4kw
10	Juliat G22 PCs w/ barn doors	2kw
4	6' MR16 Mini Strips w/EYC wide or EYF narrow lamps	750w
8	Ianiro 3-cell Far Cys	1kw

30	Altman Focusing Cycs Single or triple configurations available	1kw
2	Lycian 1275 Super Star 1.2kw HMI follow spots, located in Balcony booth	

*Can also be lamped to 750w. Check on availability.

Accessories

16	14° Source Fours Barrels
6	500w 120v to 240v step-up transformers
10	50lb boom bases
23	Tophat 10° Source 4
76	Tophat Source 4
24	Tophat Source 4 stackable
60	Halfhat Source 4
6	Short Tophat Source 4
6	Short Halfhat Source 4
24	Tophat 7.5"
24	Halfhat 7.5"
12	Long Color Extender for Source 4
28	Short Color Extender for Source 4
18	Barndoor 7.5" Fresnelight 6"
28	Barndoor 10" for Fresnelight 8" or PAR 64
18	Barndoor Arri Junior
18	Barndoor for Arri T2
24	Barndoor S4 7.5" for Source 4 PAR
6	Concentric Ring 7.5"
24	Drop In Iris for Source 4
10	4 unit Yoke for Altman Cycs
10	3 unit Yoke for Altman Cycs
30	Single Yoke for Altman Cycs

Sound

Shared Inventory

Some of BAM's sound inventory is shared between all of its venues. Please see Appendix A for a complete list of shared inventory.

System and Power

This system consists of several zones to provide even coverage for the house. Separate control can be offered for L + R Proscenium, Cluster, Underbalcony, L + R Overbalcony and Subs. All speakers are time-aligned with preset delays through d&b R1 software.

200A 3 phase 5 wire with 100A company switch (Isolated ground), located on stage right.

The theater is also equipped with a Sennheiser Infrared Assistive Listening System.

Mixing Locations

Rear orchestra, center section, house right side. The Sound Booth area is 7' wide x 6'-6" deep.

FOH Mixing Consoles

1	Avid D-Show Profile	24 input faders and 8 output faders controlling up to 48 inputs and 40 outputs.
1	Stage Rack	48 inputs and 24 outputs
1	FOH Rack	16 inputs and 16 outputs
3	DSP Cards	
1	Ethernet Card	
2	SRO Output Cards	
1	IOX Card	
1	Allen & Heath	MixWizard 16x2

Intercom System

(4) Channel Clear-Com party line system with multiple drops at key locations throughout stage, house and all technical areas, along with (15) channels of Tempest wireless com.

Paging and stage program can be heard in all dressing rooms and green room.

Cue Light System

GDS CueSystem consisting of (1) 12 way controller, (12) cue light outstations. Each unit is finished in black with a red and green LED indicator.

Front of House Loudspeakers

Proscenium Left	1	d&b Q10 (in Upper Box – 110x40 degrees)
	1	d&b E8 (in Lower Box – 90x50 degrees)
Proscenium Right	1	d&b Q10 (in Upper Box – 110x40 degrees)
	1	d&b E8 (in Lower Box – 90x50 degrees)
Orchestra Sidefill L	1	EAW Jf 80 (100x80 degrees)
Orchestra Sidefill R	1	EAW Jf 80 (100x80 degrees)
Center Array	10	d&b T10 (105 degree horizontal)
Subs	2	d&b Q subs (in Upper Boxes HL + HR)
	2	d&b B2 subs (in Lower Boxes HL + HR)
Under Balcony	5	d&b E8 (90x50 degrees)
Over balcony L	1	d&b Q7 (75x40 degrees)
Over balcony R	1	d&b Q7 (75x40 degrees)
Orch Side L+R	6+6	QSC DCS SR-46 Cinema Speakers (90x50 degrees)
Orch Rear L+R	4+4	QSC Acoustic Design AD-S282H (90x60 degrees)
Balc Side L+R	3+3	QSC Acoustic Design AD-S282H (90x60 degrees)
Balc Rear L+R	3+3	QSC Acoustic Design AD-S282H (90x60 degrees)

Additional Loudspeakers

6	Apogee AE-5
6	Apogee AE-2
2	Apogee AE-10 Subwoofers
6	EAW JF 80y
4	EV S40

Playback

2	Apple Mac Mini QLab 3.0 Pro Bundle and 16 analog outputs
2	Tascam CD-450

Effects

1	Lexicon MPX1 Digital Reverb
1	Yamaha Pro R3 Digital Reverb

Microphones

1	AKG	D112
2	AKG	451 w/CK1
2	AKG	C1000S
2	AKG	C3000B
4	AKG	C414B-XLS
2	Audiotechnica	AT 815B Shotguns
2	Audiotechnica	AT 835B Shotguns
2	Beyer	M88TG
3	Crown	PCC 160
4	Neumann	KM 184
6	Sennheiser	MD 421
2	Sennheiser	MKH 40
4	Shure	SM 57
4	Shure	SM 58
2	Shure	SM 81
4	Shure	SM 91-LC
5	Shure	MX 202B
1	Shure	VP 88
1	Shure	Beta 52

Wireless Microphones

The Harvey has a total of (8) channels of wireless microphones available. The system is built as a unit and includes antenna distribution and antennas.

3	Shure	UR4D H4 Receiver (2 channels)
1	Shure	UR4D J5 Receiver (2 channels)

6	Shure	UR1 H4 Body Pack Transmitter
4	Shure	UR2/KSM9 Handheld Transmitters (H4 band)
2	Shure	UR1-J5 Bodypack Transmitters
2	Shure	UR2-J5/Beta58 Handheld Transmitters
1	Shure	UA845-US WB Antenna Distro (500-900MHz)
2	Shure	UA870WB Active Directional Antennas (470-900MHz)
6	DPA	d-fine Omni Earset Mics (2 x black + 4 x beige) (TA4F)
4	DPA	d-fine Cardioid Earset Mics (2 x black + 2 x beige) (TA4F)
2	DPA	4061's (Beige) (TA4F)
6	Shure	WA302 TS to TA4F Guitar/Bass cables

Direct Boxes

4	Countryman	Active DI
2	Radial	JDI Stereo Passive DI
1	Radial	J48 Stereo Active DI
2	Whirlwind	Passive DI
4	Whirlwind	Hot Box Active DI
2	Whirlwind	PC DI

Video

The BAM Harvey Theater has a permanent projection booth located house left of the sound control position. The cinema projector is in a fixed location and it is not movable.

- Christie CP 4230 DLP 4K digital cinema projector (33,000 Lumens) with 1.80-3.00:1 Prime Lens / Motorized Zoom 1.2" DMD

Shared Inventory

BAM's video inventory is shared between all of its venues. Please see Appendix A for a complete list of shared inventory.

Surtitles

The screen is typically hung at the plaster line just under the arch. The size of this screen is 22" high by 14' wide (0.56m x 4.27m) and it is painted a neutral gray. The maximum trim height of the screen when hung at the plaster line is 25'-0" (7.62m) from the deck to the bottom edge. The actual trim height is dependent on the position of the Front of House lighting truss which hangs down stage of the plaster line.

A projector is located center on the Balcony rail. Operator and stage manager are located in the follow spot booth.

In addition to the above mentioned overhead screen. Titles are often projected along the boxes house right and house left to increase visibility. These can be done directly onto the architecture or onto screens. Two projectors are placed in opposing boxes for a diagonal shot onto the boxes.

Projectors commonly used for surtitles (availability determined by Director of Production):

- Panasonic PT-DZ8700 (10,000 Lumens)
- Panasonic PT-DZ6710 (6,000 Lumens)

Properties

Marley Floor

Reversible Black and Gray Harlequin Duo Marley flooring and Reversible Black and White Duo Marley Flooring is cut to fit from the proscenium to the US wall. Each roll of flooring measures 49'-0" (14.93m) long by 4'-11" (1.50m) wide. Additional black/gray pieces are available for the space DS of the proscenium to the first row of seats.

Tables

2	5'
8	6'
4	20" x 30" with adjustable height

Chairs

100	Folding black chairs.
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Music Stands

20	With lights as available
36	Assorted music stand lights
1	Conductors stand

Lectern

1	Lucite Lectern
1	Wooden Lectern

Portable Ballet Barres

4	As available
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Scaffolding

2	Levels – 6'H x 6'L x 3'W (Black)
3	Levels – 6'H x 8'L x 3'W (Yellow)

Equipment

2	Oreck vacuum
1	Hoover vacuum
3	15 gallon shopvacs
2	Submersible pumps
3	5/8" x 50' garden hoses
1	Wheel barrow
2	Box fans
1	18" black steel fan
1	12"
2	Toro leaf blowers

1	Clothes steamer
2	Helium regulators

Wardrobe

Facilities

There is a well-equipped separate wardrobe room located at the basement level along with a laundry room with (2) washers and (2) dryers.

Wardrobe Equipment

6	Rolling racks
3	Steamers
4	Irons
4	Ironing boards
1	Industrial sewing Machine
5	Box fans for drying clothes
1	Hot box dryer
1	Spinner/extractor
2	Portable quick change booths (6'x8')

Dressing Rooms

Keys

Keys to the assigned dressing rooms can be signed out, picked up and returned on a daily basis with the security guard at the stage door (212 Ashland Place).

Rooms

Access to all dressing room levels is by stairs. There are no elevators backstage.

Dressing room floor plans are available upon request. There are 2 large dressing rooms at basement level, 1 small room at stage level, 1 room on the 2nd floor, 1 room on the 3rd floor and 4 rooms on the 4th floor.

Bathrooms and Facilities

All dressing rooms are equipped with sinks. Bathroom facilities and showers are located on the 3rd floor as well as within the 2 basement dressing rooms.

Green Room

There is no official green room on the premises.

Visiting Company Office

Dressing Room 201 is generally designated as the visiting company office. It comes equipped with a phone, desktop computer, printer, wired internet access, a phone jack for dial-up connection, and a jack for a fax machine. The phone is directly dialed at 718-230-2536, or internally at x.2203. The office can be moved to any of the 3rd or 4th floor rooms, but will lose the option of a fax line.

Room M202

Telephone: 718-636-4136

Fax line: 718-638-8071

Appendix A – Shared Inventory

The below inventory is shared between BAM’s three venues. Availability will be determined by BAM’s Director of Production

Lighting

6	VL4000 Spot luminaire	1200w
24	ETC D60 Vivid	
4	Martin Mac Aura XBs	
2	LeMaitre Neutron XS Hazer	
1	Unique Hazer 2.0	
1	Unique Hazer 2.1	
2	MDG Atmosphere hazers	

Sound

1	Yamaha M7CL-48ES	Monitor Mixing Console
1	ProTools Recording System	
4	Sennheiser IEM monitors 2050xp	

Video

2	Panasonic 20K Projector	PT-DZ21K2U (20,000 Lumens)
2	Panasonic 10K Projector	PT-DW8700U (10,000 Lumens)
2	Panasonic	2.4 – 4.7 lens (ET-D7LE30)
1	Panasonic	1.7 – 2.4 lens (ET-D7LE20)
1	Panasonic	1.3 – 1.7 lens (ET-D75LE10)
1	Panasonic	.9 – 1 lens (ET-D75LE6)
1	Panasonic	.36 lens (ET-D75LE90)
1	Barco	ImagePro II Switcher/Scanner
1	Barco	DCS 200 Dual Channel Switcher
1	Draper Screen*	15’ x 24” (4.72m x 7.31m)
1	Draper Screen*	12’6”x20’ (3.81m x 6.10m)

*Only one screen can be used at once.