

TECHNICAL SPECIFICATIONS

PRODUCTION STAFF

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LOADING IN

Driving Directions: Driving directions are available at www.bu.edu/tsai. However, we strongly recommend that you contact the Production Office at least one week prior to your event if you will be traveling by truck.

Loading Doors: The Tsai Center loading doors are located in the rear of the facility in the BU parking lot at 240 Bay State Road. The loading doors lead to a ramp that rises from the parking lot level to an orchestra pit elevator that then lifts to the house and stage levels.

Loading Doors dimensions	81.5" H × 60.75" W	101.5" Diag.
Orchestra Pit Door dimensions	78.5" H × 53.5" W	95" Diag.

STAGE DIMENSIONS

Proscenium Width:	41' ½"
Proscenium Height:	17' 9½"
Plaster Line to Upstage Wall:	30' 6 3/8"
Plaster Line to Downstage Center:	11' 9 ¾"
Depth of Pit at Center:	10' 3"
Stage Height:	3' 7"
Backstage Right Clearance:	8' 6"
Backstage Left Clearance:	N/A
Crossover Space:	Under stage

DIAGRAMS AND PLOTS

A variety of diagrams with different stage setups are available on our website, as well as the repertory light plot.

www.bu.edu/tsai/

STAGE DIMENSIONS (continued)

Position	Distance from Plaster	Trim Height	Border Trims
Projection Booth	-77' 7"	---	---
2 nd Catwalk	-33' 8"	23' 9"	---
1 st Catwalk	-16' 4½"	23' 9"	---
Box Boom	-16' 5/8" (vertical pipe)	18', 16', 14'	---
Downstage Center	-11' 9¾"	---	---
DS Pit Line	-1' 6¾"	---	---
US Pit Line	-1' 6½"	---	---
Plaster Line	0' 0"	17' 9½"	---
House Curtain	0' 7½"	20' 8"	---
1 st Electric	2' 1"	20' 9½"	---
1 st Strip	3' 3 ½"	21' 5"	---
1 st Cloud	3' 11" to 5' 10"	19' 9" ***	---
1 st Border	6' 5"	22' 11"	18' 11"
2 nd Electric	7' 4¾"	20' 8½"	---
Spare Pipe 1	8' 3¾"	22' 5½"	---
2 nd Strip	9' 9½"	22'	---
Spare Pipe 2	10' 10½"	22' 11"	---
2 nd Border	12' 0"	22' 10½"	18' 10½ "
2 nd Cloud	12' 7" to 14' 6"	19' 10" ***	---
3 rd Border	15' 2½"	23' 7"	19' 7"
3 rd Electric	16' 4½"	21' 8"	---
4 th Electric	18' 1¾"	21' 11"	---
3 rd Strip	19' ½"	22' 5¼"	---
4 th Border	20' 2¼"	23' 3½"	19' 6½"
3 rd Cloud	21' 1½" to 23' ½"	19' 9" ***	---
5 th Border	23' 5½"	22'	18'
Traveler	23' 11"	22' 7"	---
4 th Strip	24' 11½"	21' 7½"	---
Spare Pipe 3	25' 10"	20' 10"	---
Cyc Pipe	27' 3"	---	---
Upstage Shell Track	29' 3"	23' 11"	---

*** Trim height to bottom of cloud, add 3'2" vertical / 10" horizontal to pipe trim height.

RIGGING

The Tsai Center is a no-fly-facility. Soft goods may be dead hung onstage from several points. The cyclorama pipe can be lowered in upstage by winch. Additional rigging may require consultation.

ELECTRICS

System: 166 dimmer-per-circuit Strand Century CD-80 dimmers with Johnson Systems CD-3000 Rack Processors; ETC Paradigm Processor and Control Stations

Console: ETC Element 40

LIGHTING INSTRUMENT INVENTORY				
Unit Type	Wattage	In Rep Plot	In Storage	Total
ETC Source Four Body	750	109	61	170
19° Barrel	N/A	25	5	30
26° Barrel	N/A	36	14	50
36° Barrel	N/A	43	27	70
50° Barrel	N/A	5	30	35
ETC Source Four PAR EA	750	20	22	42
ETC Source Four PARNeI*	750	10	0	10*
ETC ColorSource PAR Deep Blue	90	0	6	6
10" Fresnel	2000	8	4	12
8'3" 4circ 75w Mini-Strip	750	16	0	16
Strand Orion 3 circ Cyc Light	1000	0	6	6
* Units are for pit top light only and may not be refocused.				

ELECTRICS (continued)

LIGHTING EQUIPMENT INVENTORY

10' Boom Pipes	14
Boom Bases	8
Wooden Floor Bases	9
Short Sidearms	32
Long Sidearms	8
Sidearm Tees	46
C-Clamps	assorted
Rota-Locks	40
Rigid Cheseboroughs	2
Swivel Cheseboroughs	2
Source Four Drop-in Irises	8 (2 dedicated, 6 spare)
"A" Size Template Holders	20
"B" Size Template Holders	20
6.25" Donuts	40
6.25" Top Hats	12
6.25" Half Top Hats	24
6.25" Color Extenders (3" Long)	20
6.25" Color Extenders (5" Long)	20
7.5" Top Hats	38 (4 dedicated, 34 spare)
7.5" 4-Way Barn Doors	20
4-Way Barn Doors for 2K Fresnels	12

SOFT GOODS

8	Black Velour Legs
2	Black Velour Tabs
(Legs & tabs are custom-sized for specific hang positions)	
1	41' 6" × 22' 6" Black Scrim
1	40' × 20' 6" White Cyclorama
1	Black Velour Full Drop (center opening)
1	38' 6" × 22' 6" Black Velour Traveler (center opening)
1	Venetian Main Curtain (peacock green)*

*(Flies in on winches & cannot be passed through when in.)

CIRCUIT LOCATIONS

Circuit	Location
1-20	2 nd Catwalk
21-24	SL Box Boom
25-44	1 st Catwalk
45-48	SR Box Boom
49-72	1 st Electric
73-96	2 nd Electric
97-120	3 rd Electric
121-130	4 th Strip
131-134	DSL
135-138	MSR1
139-142	MSL1
143-146	MSR2
147-150	MSL2
151-154	MSR3
155-158	USL
159-162	USR
163-166	DSL, USL, USR Far Wall, & DSR Far Wall
165-166	Pit (USR Wall)

SOUND

Speaker System:

- [EAW Anya](#) system consisting of 3 flown stereo powered adaptive technology speaker boxes per side
- [EAW QX326](#) center speaker, powered by a Lab Gruppen D80 amplifier using EAW Greybox technology
- System is fully networked via Dante

Mixing Console: [Yamaha QL1](#) on Dante network (quantity: 2)

Mix Positions: Production booth (behind balcony); center house position; backstage right

Microphone Inventory		
Type	Description	Amount
Condenser Microphones		
	AKG C 414 B-ULS	2
	AKG C 451 EB	1
	AKG C 460 B	1
	AKG C 535 EB	2
	Beyer Dynamic Classis GM303 tabletop mic	8
	Shure SM 81	6
	Audio-Technica Pro 37	4
	Sennheiser MZH3042 with ME34 (podium mics)	2
Dynamic Microphones		
	Beyer Dynamic M 69 N	3
	Sennheiser MD 421-U-5	1
	Shure SM 57	5
	Shure Beta 58	4
Wireless Microphones		
	ULXD4D Dual-Channel Wireless Receiver	4
	<i>Maximum # of Wireless Channels</i>	8
	Shure QLXD2 Handheld transmitter (SM 58)	6
	Shure ULXD1 Digital Bodypack transmitter (lavalier)	6
	Shure ULXD8 15" cardioid gooseneck tabletop mic	4

ACOUSTIC ALTERATION

Wenger acoustic sound-reflecting panels (10)

Half stage and full stage orchestra shell configurations are possible depending on the needs of your event.

Sound-deadening shades in the house can be flown out to make the room more live for acoustic events.

MEDIA CAPABILITIES

Multimedia Projector: Sony VPLFHZ120L/B 3LCD laser projector with VPLLZ4025 lens (10K lumens)

Projection Inputs: HDMI inputs backstage right, house left auditorium, & booth wall

Screen: Stewart film screen, 16'6" high by 24'8" wide (viewable area)

Note: Film screen is downstage of main curtain and can only be lowered when the curtain is in.

PIANOS

9' Steinway Grand Piano Model D (American)

9' Steinway Grand Piano Model D (German)

Baldwin Upright (used for warm-up in dressing room area only)

**Piano tuning is an additional cost and needs to be prearranged.*

DANCE FLOOR

American Harlequin Studio Dance Floor, black (covers stage, including apron)

DRESSING ROOMS

Chorus size dressing rooms: 2 (capable of seating 9 people each)

Individual size dressing rooms: 2 (capable of seating 2 people each)

Each room features makeup lighting, overhead storage shelves, and multiple electrical outlets.

Restrooms: Separate men's and women's restrooms with showers

Additional: Warm-up piano room with upright Baldwin piano

All dressing rooms are located under the stage with direct access to both stage left and stage right. The downstairs hallway also serves as the only crossover from SL to SR. These areas are equipped with sound monitors.

Please note that due to security and safety concerns, only staff, performers, and technicians are allowed backstage or downstairs into the dressing room area.

ADDITIONAL STAGE EQUIPMENT

Type	Equipment	Amount
Orchestra		
	Orchestra Chairs, grey	80
	Cello Chairs, grey	10
	Bass Stools, wooden	4
	Music Stands, black	68
	Music Stand Lights	25
	Conductor's Stand	2
	Conductor's Podium	1
Lectures		
	Lectern for speaker, walnut	1
	Captain's Chairs	6
	Armchairs, blue upholstery	6
Communications		
	Clear-Com Belt Packs (wired)	8
	Clear-Com Headsets (wired)	8
Sound		
	QSC K10 Powered Monitor	2
	Microphone Stands, boom and stick	assorted
Lifts and Ladders		
	Genie Personnel Lift	2
	8' Stepladder	2
	4' Stepladder	1
Tables		
	6' x 30" Table, black	4
	8' x 30" Table, black	4
	5' x 18" (skinny) Table, black	2
	2' x 2' High-Top Table, black	2
Front-of-house		
	Easels	4
	Rope & Stanchions	6

Please inquire about other equipment needs when discussing your event with the Tsai Center staff.