

Sarofim Hall Technical Specifications
 Revised September 2016

STAGE DIMENSIONS:

Proscenium Height -	40'
Proscenium Width-	45'
Grid Height -	80' to walking surface
Max trim of system pipes-	77'
Fire Curtain to Back Wall	54'
Stage Left Wing	57' w x 42' d
Stage Right Wing	29'-6" w x 54' d
Apron	4'-2" (from fire curtain)
Stage Height (from seating level)	3'-4"
Orchestra Pit Width	55'
Orchestra Pit Depth @ Center Line	9'-8"
Orchestra Pit Performance Position	9' below stage level
Orchestra Pit highest Level	stage level
Orchestra Pit Lowest Level	24' below stage level
*The orchestra pit is on an electrically-powered GALA Lift with 23,000 lbs capacity	
Distance from Pit Wall to Row 1	4'

THEATRE CONDITION/RESTORE:

The stage house is provided to the client in a "Clear" condition, with the exception of the Grand Valance, Grand Drape, Full Black Drop, Split Black Drop and Projection Sheet (stored on lineset 98) All other line sets are clear at load-in. Each performance is responsible for restoring "Clear" condition at the completion of the load-out

LOADING/PARKING:

The loading dock is located at the end of the backstage parking lot (rear of building, enter from Walker Street) The loading dock is at Stage Level, and approximately 46" above the pavement level. There are (3) truck positions with hydraulic dock plates. (3) Loading bay doors (10'w x 20'h) provide access from the dock into an enclosed storage area (inner dock) off stage left. Passage from inner dock to Sarofim stage is 10'W X 20'H.

Freight elevator (8' x 10' x 7'5"h; 10,000lb capacity) is available at the inner dock for moving gondolas from Dock level down to Touring Wardrobe Room and Chorus Dressing Rooms.

The loading dock area has parking to accommodate up to (6) 53' tractor trailers (2 at dock and 4 parked) during the run of the show. No additional truck parking is available on site. In addition there are (4) parking stalls for personal cars located next to the stagedoor for the exclusive use of touring shows

SEATING:

The maximum legal capacity of Sarofim Hall is 2650.

Public restrooms are located in the lower level lobby and on the Mezzanine and Gallery levels.

Seating capacities by section:	Orchestra:	1242
	Mezzanine:	677
	Gallery:	732

ELECTRICAL SERVICES:

Available disconnects:

- (5) 400A 110/208V 3-phase switches on stage left pin rail, 35' above stage level
- (1) 200A 110/208V 3-phase switch stage left on the isolation transformer.
- (1) 400A 110/208V 3-phase switch on stage left loading dock.
- (1) 200A 110/208V 3-phase switch stage left loading dock on the isolation transformer.
- (4) 100A 110/208V 3-phase switches. (1 ea.) Down Right, Down Left, Up Right, and Up Left.
- (2) 60A 110/208V 3-phase isolated clean sound, (1 ea.) Down Left, and Down Right

Convenience Power:

110volt/20amp Convenience and isolated ground Edison type duplex outlets are located up stage and down stage right and left

LIGHTING EQUIPMENT:

House consoles are an ETC Eos Ti and ETC Ion which are networked to a remote processor unit for tracking backup that is capable of 4000 outputs. The system also contains remote video units, dmx gateways, and an iPad remote focus unit.

The house system is dimmer-per-circuit. The house connector is 20A, 3-conductor stage pin connector.

There are 759 house circuits distributed as follows:

Followspot Booth 1-4
Front of House Catwalks 6-47
Forestage Grid for FOH truss 48-117 (6 circuit multicables)
Gallery Rail 118-178
Mezzanine Rail 179-239
Box Booms 240-359
Stage Left Fly Gallery 360-371
Stage Right Fly Gallery 372-383
Footlight Trough 384-395
Grid Drop Multi Cables 396-695 (6 circuit multicables)
Downstage Left Proscenium 696-708
Downstage Right Proscenium 709-721
Upstage Left Back Wall 722-734
Upstage Right Back Wall 735-747
Orchestra Pit 748-755
Trap Room 756-759.

DMX ports are distributed throughout the theater.

ETC SOURCE FOUR FIXTURES (Lamped @ 750W):

- (22) 5 degree (includes 20 units permanently hung in Cove Position)
- (40) 10 degree (includes 20 units permanently hung on Side Truss Booms, 10 each side)
- (21) 14 degree
- (120) 19 degree
- (124) 26 degree
- (60) 36 degree
- (10) 50 degree
- (6) 15-30 degree Zoom
- (103) PAR

CYCLORAMA FIXTURES:

(14)	Altman Ground Row	6 cell, 3 circuit	Lamp Type	FFT
(12)	L&E Far Cyc	3 cell, 3 circuit	Lamp Type	FDN
(10)	L&E Ministrip	15 cell, 3 circuit	Lamp Type	MR16

OTHER:

4 Lycian 1293 3kW Follow Spots located in Spot Booth
Booms, Sidearms, Top Hats, and Barndoors are also available.
Additional lighting equipment is available locally for rental or purchase.

SOUND EQUIPMENT:

Main house console is a Yamaha CL5 Digital Mixer

House snake system is a combination Whirlwind 56 channel and Rio Dante networked I/O boxes.

The house left and right speaker clusters each consist of (9) dV-DOSC The center cluster consists of (3) V-DOSC on top and (3) dV-DOSC underneath.

The clusters are hung on 2000 lb winches with full travel from stage floor to ceiling

Each cluster is crossed-over in a 2-way configuration driven by Lab.Gruppen amplification

Subwoofer cabinets are (2) EAW SB250P and (2) EAW BD528P, powered by CX1102 amplifiers

Balcony delays consist of (3) EAW CH461

Side box fill cabinets and under balcony fills cabinets are EAW JF80.

Front fill cabinets are EAW JF80MT.

Stage monitors and additional fills consist of (6) EAW SM200ih, (4) EAW JF100e, (2) EAW JF60, (2) EAW 200e, and (3) Fostex 6301B

House and Monitor EQ/Delay/Processing are handled by (9) Dante networked Lake LM-44 Digital Audio Processors.

The communications system is a 4-channel wired Clear-Com. Stage monitor and paging system are available for backstage areas.

There is a 2-channel Sennheiser infrared assistive listening system for hearing impaired patrons.

Sarofim Hall has the following microphones available:

(4)	AKG C414 XLII	(7)	Sennheiser MD421 II
(4)	AKG C547BL	(7)	Sennheiser MD431 II
(1)	AKG D112	(10)	Shure Beta 58A
(6)	Audio Technica AT4033	(10)	Shure Beta 57A
(4)	Beyer M88TG	(6)	Shure MX 393
(2)	Earthworks FM500	(10)	Shure MX 202B/S
(1)	Earthworks PM40	(7)	Shure SM81
(8)	Electro-Voice N/D 468	(7)	Shure SM58
(4)	Electro-Voice RE20	(13)	Shure SM57
(6)	Rode NT55	(1)	Shure VP88

There is also a full complement of straight and boom type microphone stands.

FLY SYSTEM:

There are 99 single purchase line sets typically on 6" centers with 68' truss battens (1 1/2" pipe)

Arbor capacity is 2000 pounds.

Each batten is suspended from (6) lift lines on 13' centers.

System is operated from Stage Right at stage level or on Fly Gallery.

Contact the Technical Director for an Excel version of the house lineset schedule

HOUSE SOFT GOODS

- (1) 50wX20h Red Velvet Valance
- (1) 50wX36h Red Velvet Grande Drape (Guillotine only)
- (1) 68wX36h 24oz Black Velour Split Drops
- (9) 14wX36h 24oz Black Velour Legs
- (6) 68wX20h 24oz Black Velour Borders
- (1) 68wX36h Black Sharkstooth Scrim
- (1) 68wX36h White Sharkstooth Scrim
- (1) 68wX36h White Leno Weave Cyclorama
- (1) 68wX36h White Muslin Bounce
- (1) 58wX33h Rosco Twin White Front/Rear Projection Drop

*Important: All house goods must be restored to hampers at end of engagement

DRESSING ROOMS: We have dressing room capacity for 94

<u>Location</u>	<u>#</u>	<u>Description/capacity</u>
Stage Level	2	Star Dress
	8	2-4 Actor
	1	Company Office (no internal bathroom)
	1	Wig and Make-up room
Street Level	4	Chorus Dress 15 Actor
	1	Conductors Suite
	1	Musicians Lounge w/(2) unisex restrooms

All dressing rooms have wardrobe racks, makeup lights, bathrooms, and showers. Conductor's suite and orchestra lounge are located near the orchestra pit on the street level. See dressing room diagram.

WARDROBE: Touring Wardrobe Room with sink, 3 washers and 3 dryers located on Street Level (one level below stage). There is a freight elevator for moving gondolas from loading dock at stage level down to Wardrobe Room and Chorus Dressing Rooms.

MISCELLANIOUS:

- (16) Wenger Versalite Staging 4'x8' Platform
Platforms can be legged to various heights from 8" to 94"
Some skirting and step units are available
- (90) Wenger Musician Chair
- (90) Wenger Roughneck Music Stand
- (70) Music Stand Lights
- (1) Steinway Model-D Concert Grand Piano
- (1) Steinway Model-B Grand Piano
- (1) AVstumpfl monoblox64 15'x20' 4:3 video format front & rear projection screen

CONTACT INFORMATION:

Mailing Address Hobby Center for the Performing Arts
800 Bagby, Suite 300
Houston, TX 77002

Shipping Address Hobby Center for the Performing Arts
800 Bagby, Suite 600 – Stagedoor
Houston, TX 77002
*Please reference recipient's name and show or touring company if applicable

Web site www.thehobbycenter.org

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House Electrician Mark Dolney (713) 315-2441 mark@thehobbycenter.org

House Audio Engineer Danny Nordby (713) 315-2421 danny@thehobbycenter.org

THEATRICAL SUPPLIES:

Staging Solutions (projection) (713) 721-9829

BrightStar (sound and lighting) (713) 529-2757

LD Systems (sound and lighting) (713) 695-9400

StageLight (theatre lighting and supplies) (713) 942-0555

J & S Audio Visual (713) 957-4567

Audiovend Wireless Systems (281) 218-8330

Drum, Keyboard, and Guitar Shop (713) 781-3787

Grainger (713) 783-9012

Radio Shack (713) 652-9070

Olshan Lumber Company (713) 225-5551

Fastenal Hardware (713) 222-2929

Yellow Cab Company (713) 236-1111