



Adrienne Arsht Center

Ziff Ballet Opera House Technical Specifications



Courtesy of Odebrecht

Address & Telephone Information

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Production Department

Director of Production	Christy Havard	914-419-9646 chavard@arshtcenter.org
Production Manager	Kristen Pieski	330-524-6683 kpieski@arshtcenter.org

House Crew

Head Carpenter	Al Solano	954-419-7698 asolano@arshtcenter.org
Assist Carpenter/Head Fly/Steward	John Mulvaney	772-341-3559 jmulvaney@arshtcenter.org
Head Electrician	Dudley Pinder	954-805-8609 dpinder@arshtcenter.org
Head Audio/Video	Rafael Cambon	305-301-2792 rcambon@arshtcenter.org

Ziff Ballet Opera House

The Ziff Ballet Opera House (ZBOH) is a classic horseshoe-shaped theater, similar to La Scala in Milan. The Lynn Wolfson Stage is the second largest in the United States after the Metropolitan Opera House in New York City. The ZBOH design includes isolation channels throughout the building which assures the hall is completely removed from external ambient sound and vibration. The theater is the Miami home of Florida Grand Opera, Miami City Ballet, Broadway Across America, and other presentations of large-scale theater, dance, and music by the Center and other presenters.

**** Please reference: [ZBOH Ground Plan](#)**

Labor

The Center holds a collective bargaining agreement with the International Alliance of Theatrical Stage Employees (I.A.T.S.E). ZBOH Department Heads (4) and any additional stagehands called to work in the theater are members of I.A.T.S.E. Local 500. House equipment, including but not limited to personnel lifts, lighting consoles, sound consoles, stage lifts, fly systems will be operated by an Arsht Center Department Head or a stagehand designated by the venue Steward.

Fire Safety

City of Miami Fire

City of Miami Fire Rescue Inspectors are contracted for any performance or event that uses open flame, smoke, haze or pyrotechnic effects. **Fire Watch requests should be provided as part of the advance, and should be submitted to Production *no later than 2 weeks before the date of the event.***

- 4 hour minimum - \$70 per hour

Seating

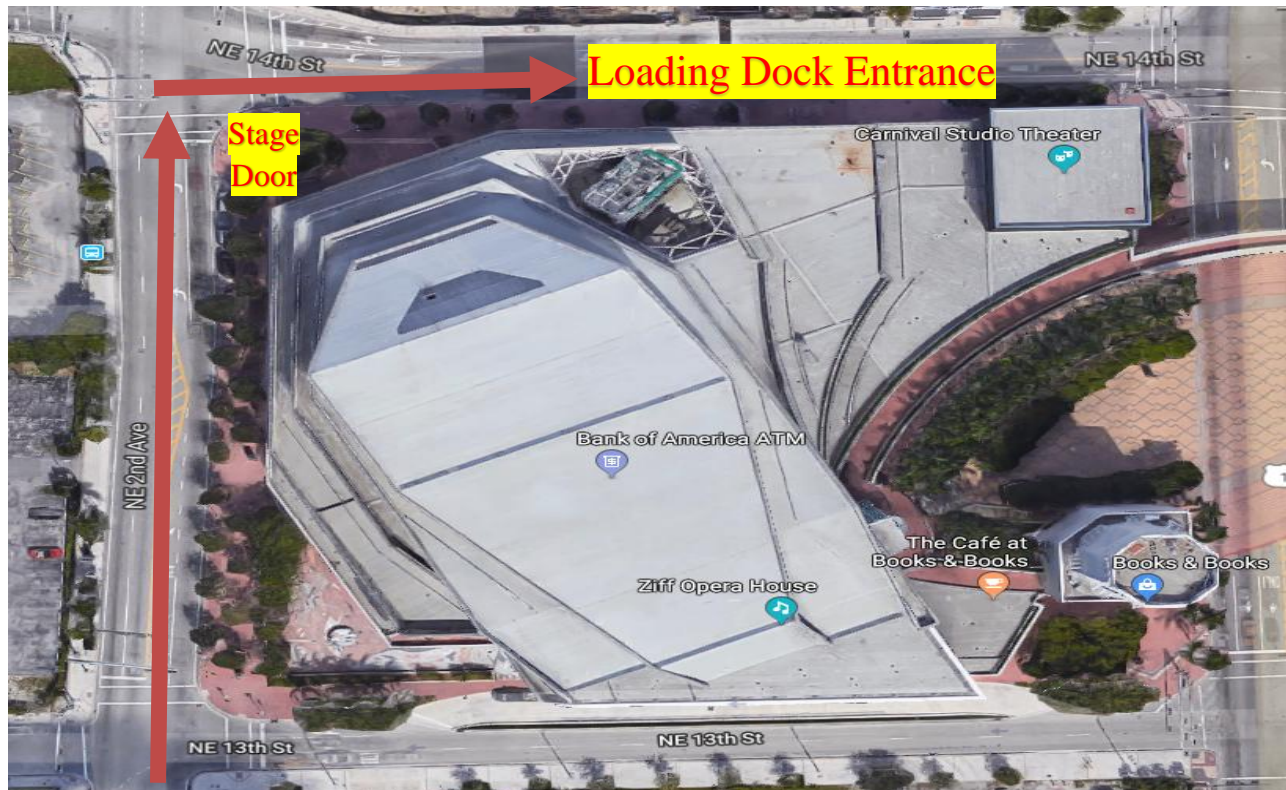
The Ziff Ballet Opera House auditorium has a seating capacity of 2,454 seats distributed among the orchestra level and four tiers.

Orchestra Pit	68
Orchestra Main	772
Orchestra Circle	204
Box Tier	98
Second Tier	356
Third Tier	390
<u>Fourth Tier</u>	<u>566</u>
Grand Total	2,454

Loading Dock

The entrance to the loading dock is located on Northeast 14th Street between Biscayne Boulevard and Northeast 2nd Ave. Trucks should approach the docks coming from Northeast 2nd Ave to turn eastbound onto Northeast 14th street. There are 4 bays that are at dock height and can accommodate three full-size 53' trailers. All the bays in the loading dock are fully sheltered from the weather. There is a direct push from each bay onto the stage.

- Venue does not own any forklifts. Stacking motors onsite.

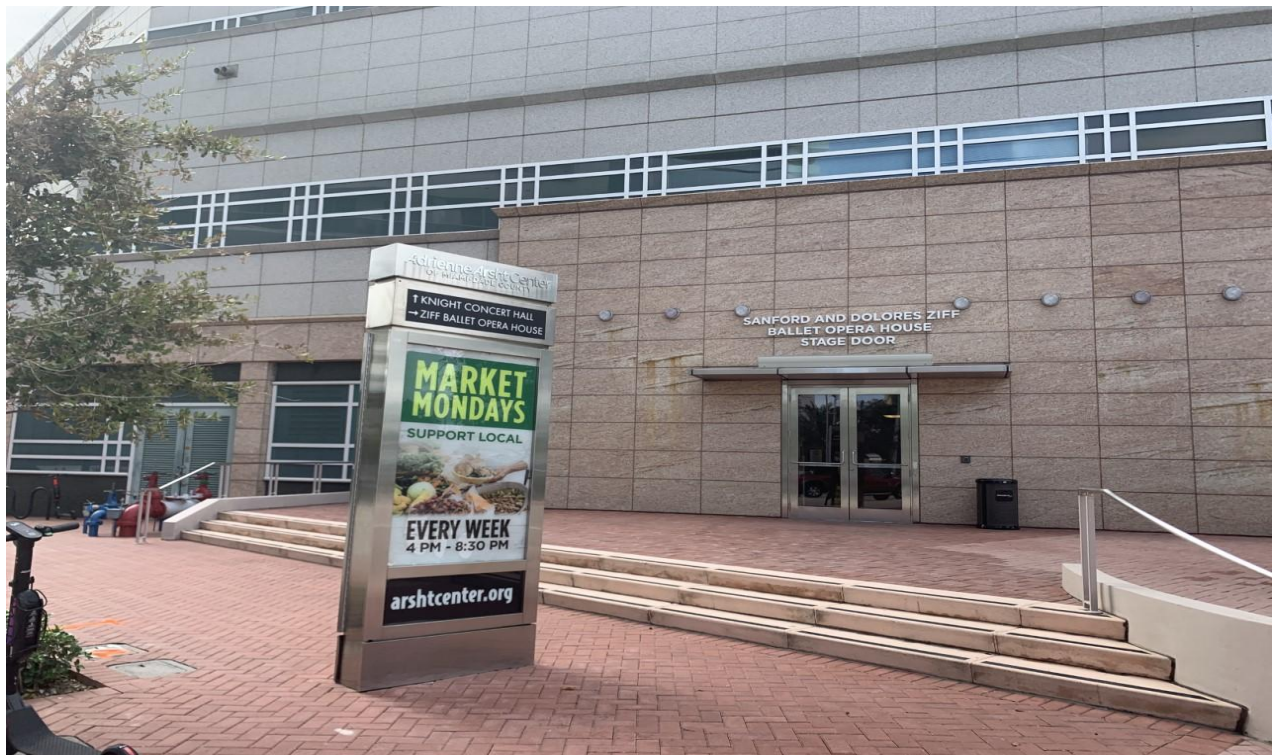




Loading Dock to Stage

Stage Door

The Stage Door is located at the intersection of Northeast 2nd Avenue and Northeast 14th Street. For safety and security of guests and staff, anyone working or visiting the Ziff Ballet Opera House Lynn Wolfson Stage, Carnival Studio Theater or Peacock Foundation Studio is required to check in with Security at this entrance, without exception. Those who do not have proper identification and authorization will be denied entry and asked to leave. Once checked in, you will be allowed entry to the dock.



Lynn Wolfson Stage

Dimensions

Proscenium opening width:	50' 0"
Proscenium opening height	Min 34' 0"; Max 38' 0"
Stage depth	71' 0"
Main Stage width: Fly rail to wall pocket	126' 0"
Main Stage gridiron height	110'
Main Stage grid counterweight lines	95 line sets
Apron, from curtain	4'
Inner pit	38' wide 8' deep
Outer pit	60' wide x 6' 6" deep
Pit size, small configuration	38' wide x 8' deep, up to 25 musicians
Pit size, large configuration	60' wide x 14' 6" deep, up to 96 musicians
Locking rail	Deck (0'-0")
Pin rail	50'
Fly rail to edge of compensating lift (SR wing)	34'
Fly rail to Left Stage wall	193'
Lower weight bridge	99'
Upper weight bridge	106'
Light gallery	79'
Rear Stage	84' wide x 57' deep x 35' high
Left Stage	66' wide x 61' deep x 35' high
Rear and Left Stage gridiron height	35'
Followspot Throw	170'

Floor

The stage floor surface is ¼" Masonite over 2 ¾" tongue-and-groove plywood attached to 2"x 4" sleepers over 2" resilient pads and insulation.

Soft Goods

Quantity	Description	Height	Width
18	Velour Legs	40'	16'
7	Velour Borders	12'	40'
2	Velour Borders	16'	40'
1	Sharks Tooth Scrim (Black)	35'	73'
1	Sharks Tooth Scrim (White)	35'	73'
1	White Muslin Cyclorama	40'	73'
2	Full B.O.C (Blackout Curtain)	40'	73'
1	B.O.C. Split	40'	73'
—	Velour Tabs	8'	40'

Electrical Information

Show Power Distribution

Loading Dock	3 disconnects: 1 - 400A, 1 - 200A and 1 - 100A.
Light Gallery stage left @ 80' high	8 - 400A disconnects Served by a chain motor on trolley suspended from upper steel
Down stage left wall	2 - 400A, 5-wire disconnect
Down stage left Proscenium wall	1 - 100A, 5-wire disconnect
Down stage right Proscenium wall	1 - 100A, 5-wire disconnect
Mid stage left wall	1 - 100A, 5-wire disconnect
Up Stage Right Wall	1 - 100A, 5-wire disconnect
Up stage left wall (Rear Stage)	1 - 100A, 5-wire disconnect
Up stage right Wall (Rear Stage)	1 - 100A, 5-wire disconnect
Basement	1 - 100A, 5-wire disconnect

Lighting Information

- The lighting consoles and accessories present in this space include:
 - (2) Gio5 Console with ETC EOS Motorized Fader and EOS Programming Wings
 - (2) ETC Nomad Pucks Mini-Computer with Unlocked Output & Nomad 6144 Output Kit
 - (2) ETC Response MKII 4-Ports Gateway with XLR Output
- House lights, work lights, non-dims and curtain warmers are controlled separately by a [Paradigm Lighting](#) system that connects to local button stations, touch screens on stage and in the FOH lighting booth.
- DMX transfer/tie-in for road consoles is available in the FOH lighting booth and on stage. Control of the front of house lighting positions requires 1 DMX universe. Control of the FOH and over stage dimmers requires 2 DMX universes.
- Dimmers: 948 Strand CD80 2.4k dimmers + 19 CD 80 6k dimmers.
- 4- 21' light ladders each on stage left and right on motorized rigging and tracks to travel US/DS. One additional ladder is dead hung on each side.
- There is a dedicated [FOH Lighting Plot](#). Please discuss any changes with the Director of Production and the Head Electrician.
- Please see lighting inventory below. The lighting instrument inventory is subject to change. Contact the Director of Production or the Head Electrician for updated information of available equipment for your show.

Fixtures: Front of House

27	ETC Source 4 5° @ 750w
69	ETC Source 4 10° @ 750w
28	ETC Source 4 14° @ 750w
52	ETC Source 4 19° @ 750w
16	ETC Source 4 26° @ 750w
4	Lycian 1293 3k Xenon followspots (in followspot Booth)

Fixtures: Storage

8	ETC Source 4 5° @ 750w
11	ETC Source 4 10° @ 750w
3	ETC Source 4 14° @ 750w
60	ETC Source 4 19° @ 750w
192	ETC Source 4 26° @ 750w
60	ETC Source 4 36° @ 750w
10	ETC Source 4 50° @ 750w
12	ETC Source 4 15°/30° Zoom @ 750w
6	ETC Source 4 25°/50° Zoom @ 750w
95	ETC S4 PAR MFL @ 750w (w/ WFL, NSP, & VNSP lenses available)
10	ETC S4 MultiPAR MFL 12 cell 4 Circuit @ 750w per cell (w/WFL, NSP, & VNSP lenses available)
18	L&E 65-60 MR16 Ministrip @ 750w (EYC lamps)
24	Altman GC-6 Ground Cyc @ 1kw (2kw per circuit)
10	Altman Sky Cyc 03 @ 1kw
4	Wybron BP-2 Beam Projector @ 750w
6	DeSisti Leonardo Fresnel @ 2kw
2	Hazers (rental fee applies)
2	Fog machines (rental fee applies)

Accessories

30	ETC Source 4 19° lens tube
29	ETC Source 4 26° lens tube
18	ETC Source 4 36° lens tube
18	ETC Source 4 50° lens tube
6	ETC Source 4 90° lens tube
36	Drop in iris for ETC Source 4
75	"A" Size pattern holder
75	"B" Size pattern holder
36	14" Top hat for ETC S4 05°
36	12" Top hat for ETC S4 10° (10 in use FOH, 26 in storage)
6	10" Top hat for Wybron Coloram II scroller accessory slot
76	7.5" Top hat for ETC S4 Par
38	6.25" Top hat for ETC S4 19°-50°
80	6.25" Half hat for ETC S4 19°-50°
50	6.25" Donut for ETC S4 19°-50°
24	12" Donut for ETC S4 10°
24	14" Donut for ETC S4 05°
6	12" Barn doors for 2k Fresnel (4 leaf)
50	7.5" Barn door For ETC S4 Par

Audio Information

Power Distribution

Isolated ground A/C power

- Down stage left, basement level: one (1) - 200amp
- Up stage left 1- 100amp
- Down stage left storage 1- 200amp

Mix Positions

House Mix Position: The Front of House sound mix position is 9' deep x 17' wide and located 84' from plaster line. *If your production requires FOH to be mixed from within the house, advance notice must be given in writing to allow for seat removal and adjustment in ticket sales.*

Sound Control Room

Acoustically isolated room containing recording, playback, audio console, loudspeaker array signal processing equipment, patching equipment for routing microphone and line level lines and a microphone signal splitting system. Large window is capable of opening.

Front of House

- 1 Midas Verona 320
- 2 Denon DN C680 CD player
- 1 Tascam DV-RA1000 DVD-R Audio Recorder
- 2 Yamaha DME64N DSP (FOH Processing: System EQ, Distribution, Dynamics)
- 7 XTA DS-800 modular microphone split system
- 1 Whirlwind 48-input/16 return 3-way Iso Split
 - 1 300' W4 Mass Cable
 - 1 10' W4 Mass Fanout XLR
 - 2 25' W4 Mass Fanout XLR

Outboard Gear

- 3 Klark-Teknik DN-360 dual channel graphic equalizer
- 4 DB 4 channel compressors
- 2 Drawmer 2 channel noise gates
- 8 8 channel mic preamps/mic splits

Main PA

- 2 Meyer MSL-4 Powered Speaker (L&R)
- 1 Meyer DF4 Powered Speaker (Center)
- 4 Meyer CQ-1 Powered Speaker (L&R)
- 2 Meyer 650 P (Subs)
- 8 Meyer UPM1P (Front Fills)
- 3 Meyer UPA-1P Powered Speaker (4th Tier Delay)

Monitors

- 2 QSC K12
- 3 Mackie SRM 450

Microphones/Direct Inputs

Manufacturer	Model	Quantity / Notes
Shure	ADX2 Handheld	4 – Wireless
Shure	AD2/SM58	4 – Handheld w/ SM58 Capsule
Shure	KSM44	2
AKG	C414	2
Shure	Beta 98	3
Shure	Beta 52	1
Shure	Beta 58	4
Shure	Beta 57	4
DPA	4188	4 – Headset Mics

Wireless System Components

Manufacturer	Model	Quantity / Notes
Shure	AD1 Bodypack	4
Shure	AD4Q	1 – 4-Channel Receiver
Shure	AD4	1 – 2-Channel Receiver
Shure	SBC800	1 – 8-Slot Battery Charger
Shure	SB900B	12 – Rechargeable Batteries

Antenna & RF Accessories

Manufacturer	Model	Quantity / Notes
Shure	UA874XA	2 – Active Directional Antenna
Shure	UA825	2 – 25' Coaxial Cables

Cabling

- 5 100' XLR
- 20 25' XLR
- 20 50' XLR
- 10 6' XLR
- 10 3' XLR
- 3 50' 12 channel XLR snakes
- 4 W4 hoses
- 3 W2 stage boxes

ClearCom

- 13 FreeSpeak wireless belt packs
- 6 Helix net wired belt packs
- 1 ClearCom Arcadia
- 2 ClearCom biscuits
- 4 Wired analog belt packs
- 2 2 channel analog belt packs
- 7 Heavyweight headsets
- 7 Regular headsets
- 4 Lightweight headsets

Mic Stands

- 4 Short desktop
- 4 Short tripod
- 12 Regular tripods
- 4 Regular heavy base

Miscellaneous

- Male to male turnarounds
- Female to female turnarounds
- XLR y cables
- Bantam TT patch cables
- 6 Sennheiser infrared audio transmitters
- 1 Sennheiser infrared audio processor

Rigging Information

Forestage Rigging

ZBOH Rigging Points Plot

- There are no center points.
- Downstage proscenium rigging is possible through the near catwalk.
- Downstage of the proscenium rigging points are available upon request.
- Front edge of stage is 7'11" downstage of plaster.
- Points are arranged in a semicircle starting 16'6" downstage of the plaster line.

Fly System

- House fire curtain is steel framed and motorized counterweighted.
- House curtain is motorized counterweighted with variable speed winch, max speed 300fpm.
- 2 - Motorized counterweighted line sets for portal and border.
- 90 - 2,000lbs capacity, 6-line, single purchase, undedicated, manual counterweight line sets.
- 14' arbors, max capacity 2000lbs.
- Battens are truss type consisting of two 1-1/2" diameter schedule 40 pipes held 10" apart by 2 - 1/4" welded steel plates spaced 4' apart. Batten length is 74'; maximum travel is 108' weight is 300lbs.
- Capstan winch: 2000 lbs. capacity, 10 fpm
- Stage Left and Stage Right tab rigging counterweighted
- Total amount of counterweight: 100,000 lbs.
- 4 - 21' tracked light ladders stage left and right on motorized rigging. One additional ladder is dead hung on each side under the bridge.

Truss Inventory:

PRG Truss (*Uses Bolts to Fasten Together*)

Type	Quantity
10' x 20" Box Truss	6

Performance Truss (*Uses Pins to Fasten Together*)

Type	Quantity	Notes
10' x 20" Box Truss	10	
6' x 20" Box Truss	4	
20" Cube Junctions (Corners)	4	
8' Skii Bases w/ 2 Receivers	8 (used in pairs)	2 Skii Bases per corner = 4 corner bases

**** Please contact the Production TD for the current line set schedule.**

- There are no permanent soft goods hung.

Dressing Rooms

- 2 Visiting company offices
- 1 Conductor's dressing room (with private sink, toilet and shower)
- 8 Principal dressing rooms (with private sink, toilet and shower)
- 6 Two-person dressing rooms (with private sink, toilet and shower)
- 6 Chorus dressing rooms (with sinks, toilets and showers)
- 1 Performers lounge
- 1 Musician's lounge

**** Please refer to Dressing Room Schedule for assignment.**

- [Dressing Rooms Visiting Areas](#)

Other Spaces

Next Generation Green Room	38' 3" W x 29' 3" L
Terra Group Patrons Salon	32' W x 21' L
Peacock Foundation Studio	53' 7" x 79' 9" (Pipe grid at 33' 9")
• PFS Ground Plan	

Bucket & Scissor Lifts

(These lifts are shared amongst all 3 stages on campus. If needed, please confirm scheduling and use with your Production contact before load in begins.)

- 1 40' Genie AWP-40S Single Person lift
- 1 25' Genie GS-1930 Scissor lift
- 1 32' Sky Jack SJIII4632 Scissor lift
- 1 26' Sky Jack SJIII3226 Scissor lift