

Carole and Gordon Mallett Black Box Theatre
Technical Specifications
Revised August, 2007

Stage Dimensions

Grid Height from Deck

Loading Dock and Loading Doors

The load in doors, W x H, are located in the Northeast corner of the space. Access to the loading dock is through these doors, through a set of double doors (W x H) into the scene shop, and through the scene shop loading door (W x H). At curb level is a hydraulic dock lift (W x H).

Truck Access

Truck access to the loading dock is restricted to trucks 24' or smaller in length.

Dressing Rooms

The Mallett Theatre is supported by four dressing rooms, two on the main floor of the building, and two in the basement. Each dressing room features individually-lighted dressing stations and full shower facilities. The Main Level dressing rooms seat 8 and 5; the basement level (Kettlehut) dressing rooms seat 10 and 11.

Stage Surface

The stage floor is wood covered with 1/4" masonite. The wing space floor is concrete. The stage floor may be lagged into at any point.

Stage Decking and Surface

The center surface of the stage floor is comprised of a system of 3' x 6' removable platforms supported on "zee"-shaped framing members, manufactured by StageRight, which sit in a 3'-0" deep, 36'-0" x 36'-0" well. With some limitations, these platforms may be arranged in a number of configurations, at varying heights up to 3'-0".

Each platform is comprised of a cellulose honeycomb core laminated between solid-core fir plywood panels, with edges enclosed in aluminum. Each platform is finished with a 1/4" masonite top.

Because each platform rest on the support framing—there is no positive locking mechanism—relying on the platforms to resist lift or tipping forces by lagging into them is not permitted.

Electrical Service

Pin-in-sleeve electrical connections are available on the North wall at ground level and the West wall at the gallery level.

Main Curtain and Soft Goods

Description	Dimensions	Color	Notes	Qty
Leg (#1)	13'-0" x 6'-0"	Black	Sewn flat	2
Leg (#2-#4)	20'-0" x 8'-0"	Black	Sewn flat	4
Border	5'-0" x 36'-0"	Black	Sewn flat	4
Scrim	20'-0" x 40'-0"	Black	Sharkstooth	1
Cyclorama	20'-0" x 40'-0"	White	Leno Scrim	1
Traveler	12'-9" x 24'-8"	Black	Sewn flat	2
Stage Tabs	12'-9" x 8'-0"	Black	Sewn flat	2
Audience Tabs	12'-9" x 9'-0"	Black	Sewn flat	8

See masking plan for house positions.

Tension Grid, Technical Gallery and Rigging

A tension-wire grid suspended at 20'-0" from the stage floor provides for overstage rigging positions. Positionable lengths of pipe provide flexible hanging positions above the grid for lighting, sound, and scenery rigging requirements.

Wrapping the space is a technical gallery at 14'-0" from the stage floor, providing lighting positions, sound positions, and scenery rigging and operation positions. The gallery (and by extension the tension grid) is accessible by means of stairways or elevators in the main building. The south side of the gallery hosts an open-air lighting and sound control area, adjacent to an enclosed stage management booth.

House Sound

The sound system in the Mallett theatre consists of two Yamaha DM1000 mixing consoles, a Peavy Media Matrix DSP system, Crown CTS series amplifiers, and Renkus Heinz speakers. The Renkus Heinz PNX121 and PNX61 speakers can be configured as desired throughout the theatre space. Stage Research's SFX software is used for sound cue playback.

House Lighting

Control: ETC Emphasis Server with ETC Expression 3 faceplate
3 Wireless Remote Focus Units

Dimming: 258 2.4kW Sensor Dimmers
3 6kW Sensor Dimmers

Fixture Inventory:

18	ETC Source 4 19°
27	ETC Source 4 26°
90	ETC Source 4 36°
36	ETC Source 4 50°
??	6" Fresnel
??	8" Fresnel
10	ETC Source 4 PAR Strips
8	Altman Single-Cell Sky Cyc

Accessory Inventory:

10	GAM TwinSpin II w/ Controller
10	SX4 Loop-tray w/ Controller
10	SX4 Six-Slide Tray w/ Controller
10	SX4 Loop Tray
10	SX4 Six-Slide Tray
10	TwinSpin
10	Star Strobe
1	Flicker Master
1	Chase Generator
2	AquaFog
2	Fog Machine w/ DMX
2	Atmosphere Hazer
30	Wybron Colorfader

Equipment may be moved from one theatre to the other with the permission of the lighting faculty mentor; however, productions in the Mallett Theatre have priority over the dedicated equipment as described above (and vice-versa). The lighting inventory is to be used and divided between productions at the discretion of the lighting faculty mentor.

Network distribution, DMX address information, and network node IP address information can be found by visiting <http://web.ics.purdue.edu/~rdionne/drawings.php>.

Intercom, Program, and Paging Systems

Intercom: A four-channel Clear-Com system with redundant power supplies is hardwire to all commonly used locations (spot booths, control positions, fly rail, trap room, etc.). Base stations capable of addressing all four channels are located in the control booth and in the stage left stage manager's console. Wall-mounted Clear-Com stations are mounted in each dressing room and the green room. Typical channel configuration:

Channel A	Stage Crew
Channel B	Sound
Channel C	Lighting
Channel D	Support Areas (dressing rooms, front-of-house, etc.)

Program: A 70V system routes program feed to all commonly used areas (dressing rooms, green room, booth, front-of-house lobby, etc.). All areas have independent volume controls.

Paging: "All calls," both to the auditorium and to all backstage areas, may be made from either of the Clear-Com base stations. This system will override the program feed to avoid missed cues.