

# Eisenhower Hall Theatre

655 Pitcher Road, West Point, New York 10591

## Technical Specifications

SEATING		
Seating Configuration:	American-style	
Fixed Seating Capacity:	Orchestra	2,864
	First Balcony	730
	Second Balcony	<u>730</u>
	Subtotal	4,324
Additional Seating	Orchestra Pit (maximum, if seated)	108
<b>TOTAL</b>		<b>4,432</b>
Stage Height: 3'6"		
Audience Slope: Height variance on Orchestra level front to rear = 16' 10"		

ORCHESTRA PIT	
Automated Pit Lift	Gala Systems Spiral Lift in two sections an upstage and a downstage that splits pit in half. Preset positions at stage, audience/seated and pit. Lifts can be moved independently or synchronously and positioned at any height with safety considerations.
Dimensions	Upstage (stage edge): 38' Downstage (Orchestra Rail): 55' Depth (upstage/downstage): 15'2" (each lift approx 7'7" wide)
Height from Stage level	Stage: 0'0" Seated: -3'6" Orchestra: -9'0"

PROSCENIUM THEATRE	
Proscenium width	66'-0"
Proscenium height	30'-0"
Edge of apron to back wall	50'-0"
Plaster line to back wall	45'-6"
Curtain line to back wall	42'-10"
Tormentor opening width	36'-0" to 57'-0"
Teaser opening height	16'-0" to 30'-0"
Grid height	78'-0"
Clear batten run	+3'-0 to +75'-0 (deck to canopies 56')
Wings Stage right	26' wide, 44' deep, 28' high
Stage left	29' wide, 44' deep, 28' high
Distance from stage centerline to loading dock door	135'

Stage Height	3'6"
Audience Slope: variance at orchestra level from front to rear	16'-10"

## STAGE FLOOR

Finish -- flat black

Construction -- Concrete base with neoprene, under double 2 X 3, under plywood, under paper, under maple, under ¼" masonite.

A 24'-0" deep, 36'-0" wide area of the stage has inoperable traps 6'-0" wide by 3'-0" deep.

The stage floor can be nailed into.

The stage floor is rated for a 200 pound per square foot live load.

## HOUSE CURTAIN

Burgundy velour

Guillotine with center split and motorized drive

Manual control from stage level, stage right

## RIGGING

Locking rail 33' above stage right

Pin rail 33' above stage left

Gallery connects pin rail and locking rail along upstage wall

Double purchase counterweight T track system

750 pound capacity per batten, 58'-0" 1-1/2" ID Schedule 40 battens

7 sets of pipe extensions are available for the battens. 5'-6" maximum extension stage right and 7'-0" maximum extension stage left

## RIGGING (New fall 2015)

ETC Prodigy P75 Variable Speed Hoists @ Linset #6, 18, 30, 44, 54 & 61. 0-180 fpm, 1200lbs capacity.

ETC Prodigy P75 Variable Hoists for Main Curtain and fixed speed hoist for Large Projection Screen

ETC Foundation Rigging Controller stage left with two button plug-in ports SL, SR, FOH Mix and Fly rail.

## FIRE PROTECTION

Fire Curtain and smoke pocket (new Fall 2015). There may be a fire inspection before every performance. Please advise if you will use any fire, flame or pyrotechnic devices. Its use must be approved by the USMA Administration and the West Point Fire Dept.

## LOADING AREA

Loading dock 3'-4" above street level

Space at dock for 5 semi's

Trucks and buses with the production may remain at the loading dock

Door: Width 19'-0", Height 14' 9"

There is a clear straight run from the loading door to the stage, which is at least as wide as the door

Dock plates -- 2; dock board -- 1

Loading ramp -- 1, 10'

Loading dock -- 10' deep, 59' wide

Loading dock is open, no roof

Chain hoist -- 1 Ton, inside, on trolley parallel to loading door

## DRESSING ROOMS

All stage right, with hot water, heat and air-conditioning

Room #	1	2	3	4	5	6	7
# of people	2	2	13	13	37	20	17
Vanities	1	1	13	13	37	20	17
Lighted mirrors	1	1	13	13	37	20	17
Full mirrors	1	1	6	6	9	6	6
Electrical outlets	3	3	14	14	39	21	20
Toilets	1	1	1	2	4	2	2
Urinals	-	1	-	-	-	-	-
Showers	1	1	2	2	2	2	2
Sinks	1	1	4	4	4	4	4
Feet of racks	5	5	11	11	48	24	19
Flights from stage	-	-	-	-	+1	+2	-1

## WARDROBE ROOM

Washer -- 2  
Dryer -- 2  
Sink  
Ironing board -- 2  
Wenger Portable Wardrobe racks  
Steamer -- 2

## LADDERS

40' Genie Lift, battery powered  
4' step ladder  
6' step ladder  
8' step ladder  
10' step ladder  
12' step ladder  
8' step or 14' extension ladder

## ORCHESTRA SHELL

Wenger Corp custom orchestra shell in yellow consisting of 4 ceiling canopies and 10 towers. Full shell setup is 41' deep 66' wide downstage and 41' wide upstage. Area is approximately 2255 square feet. For smaller configurations, fewer towers and canopies can be used. Lighting inside the shell is from Colortran Minilite 10's mounted between the ceiling canopies.

## CHORAL SHELL

Wenger Corp choral shell in yellow consisting of 6 towers.

## DRAPERIES

12 (6 pair) Legs	Black, velour, flat 18' wide, 30' high
6 Borders	Black, velour, flat, 60' wide, 12 high
1 Drop	Black, velour, flat, 58' wide, 30' high
1 Bounce drop	White, muslin, flat, 60' wide, 34' high
1 Scrim	White, scrim, flat, 60' wide, 34' high
1 Scrim	Black, scrim, flat, 60' wide, 30' high
1 Teaser	Black, velour, flat, 68' wide, 20' high
1 House	Burgundy, velour, full, 68' wide, 32' high

## PROJECTION SCREENS

Gerriets Opera (front or rear) cream-colored projection screen 60' wide x 30' high.  
Gerriets Opera White front projection screen 60' wide x 30' high.  
Gerriets Show black rear projection screen 60' wide x 30' high.  
Stewart 200 projection screen permanently hung on a rigid frame on lineset #2 is 54' wide x 26' high.

## ELECTRICAL

Company switch – (4) Union Connector, Safety Cam, Downstage Stage Left, 35' from the proscenium, all are 3 phase 5 wire.

(3) @ 400 amp,

(1) @ 100 amp for sound isolated ground

(1) @ 200 amp for shore power at loading dock with sub boxes, bare ends for tie in.

House board -- ETC EOS and ION lighting Consoles with back up operating 520 dimmers dimmer per circuit, EOS located FOH or projection/lighting control booth, ION location flexible if needed. All in-house dimmers can be controlled via ETC lighting network running CAN, patchable from various points throughout the theatre.

Front of house --

Ceiling cove 1 is 66' from the stage,

Ceiling cove 2 is 100' from the stage.

Balcony Rail on face of the 1<sup>st</sup> Balcony approx 125' to plaster.

Connectors are 20amp 3-prong twistlock.

Follow spots -- Located in the Spot Booth above the Second Balcony, 3 Lycian 1293 3K's, 200 feet to the stage

Snake Run: FOH mix to edge of stage is approx 160'. You will need a 250' snake run.

## STAGE STAFF / HOUSE CREW

Production, Stage and Operations Manager	Duane Rutter	Tel. 845-938-5211
Technical Director	James Voltaire	Tel. 845-938-3768
Sound & Stage Technician	Bill Montgomery	Tel. 945-938-4176

## STAGE CREW

I.A.T.S.E.

If yours is a yellow card production, or you require the services of the International Alliance of Stage and Theatrical Employees, they are provided by Local 311 (Middletown, New York). To facilitate crew coordination, please provide crew requirements to both the Local and Eisenhower Hall Theatre as soon as possible.

Cadets (college students at West Point) may at times serve as crew members or in other backstage roles to support productions at Eisenhower Hall Theatre.

**LIGHTING INVENTORY****ELLIPSOIDAL REFLECTOR SPOTLIGHT**

SIZE	MFG	MODEL	WATTS	FIELD	QTY	USED	LOCATION	UNHUNG
6X9,12,16	Strand		1000w	31	12	-	-	12
15-30 Deg	ETC	Source 4	750w	Zoom	40	40	1 Ceiling cove	-
10 Deg	ETC	Source 4	750w	10	46	46	2 cove & Balc. Rail	-
14 Deg	ETC	Source 4	750w	12	10	-	-	10
19 Deg	ETC	Source 4	750w	18	40	16	Box Booms	24
26 Deg	ETC	Source 4	750w	26	38	-	-	38
36 Deg	ETC	Source 4	750w	26	52	-	-	52
50 Deg	ETC	Source 4	750w	12	10	-		10

**FRESNEL**

SIZE	MFG	MODEL	WATTS	FIELD	QTY	USED	LOCATION	UNHUNG
8"	Kliegl	-	1000w	-	20	-	-	20
10"	Kleigl		2000w		4			4

**PARS**

SIZE	MFG	MODEL	WATTS	FIELD	QTY	USED	LOCATION	UNHUNG
64	Altman	-	1000W	Various	20	-	-	20
S4 Par	ETC	-	750w	All 4 Lenses	120			120

**MOVING LIGHTS**

VARI-LIGHT 3000Q SPOT FIXTURES QTY:6

VARI-LIGHT 3000Q WASH FIXTURES QTY:6

**FILL LIGHT**

SIZE	MFG	MODEL	WATTS	FIELD	QTY	USED	LOCATION	UNHUNG
Minilite10	Colortran	-	1000W	-	20	10	Worklights	10

**STRIPLIGHT**

SIZE	MFG	MODEL	WATTS	FIELD	QTY	USED	LOCATION	UNHUNG
3 Cell	Strand	Iris	1000W	-	6	-	-	6

**GROUND ROW**

Source Four MultiPar 12/4 QTY: 6

**LED WASH LIGHTS**

ETC VIVID 11" QTY: 12

**EFFECTS**2 - Ultratech/LaMatrie G3000 Foggers  
2 - Look Solutions Unique2 Hazers4 - Robe REDBLINDER 2-48  
4 - Martin Atomic 3000 Strobes**FOLLOWSPOT**

SIZE	MFG	MODEL	WATTS	FIELD	QTY	USED	LOCATION	UNHUNG
-	Lycian	1293	3K	-	3	-	Spot Booth	3

**CABLE**

We are a twist-lock house. Various lengths and twofers 12/3 cable with Hubbell 2311 and 2313 twistlock connectors. We also have an inventory of various adapters.

**COLOR**

Inventory of ROSCOLUX, LEE and GAM

## LINE PLOT

LINE	DISTANCE FROM PLASTER	ASSIGNMENT	FROM APRON	FROM HOUSE CURTAIN	FROM TORM	FROM LINE 5
-	4'-5"	Apron	0'-0"	-6'-6"	-9'-0"	-9'-2"
-	0'-0"	Plaster line	4'-5"	-2'-1"	-4'-7"	-4'-9"
FC	1'-5"	Fire Curtain	5'-10"	-1'-1"	-3'-5"	-4'-5"
1	2'-4"	House Curtain	6'-9"	0'-0"	-2'-3"	-2'-11"
2	3'-5"	Projection Screen	7'-10"	1'-1"	-1'-2"	-1'-10"
3	4'-1"	Teaser	8'-6"	1'-9"	-0'-6"	-1'-2"
4	4'-7"	Tormentor	9'-0"	2'-3"	0'-0"	0'-8"
5	5'-3"	-	9'-8"	2'-10"	0'-8"	0'-0"
6	5'-11"	Motorized ETC P75, 1 <sup>st</sup> LX	10'-4"	3'-6"	1'-4"	0'-8"
7	6'-9"	-	11'-2"	4'-5"	2'-2"	1'-6"
8	7'-3"	-	11'-8"	4'-11"	2'-8"	2'-0"
9	7'-9"	-	12'-2"	5'-5"	3'-2"	2'-6"
10	8'-3"	-	12'-8"	5'-11"	3'-8"	3'-0"
11	8'-9"	Ceiling canopy 1	13'-2"	6'-5"	4'-2"	3'-6"
12	9'-6"	-	13'-11"	7'-4"	4'-11"	4'-3"
13	10'-8"	-	15'-1"	8'-4"	6'-1"	5'-5"
14	11'-2"	-	15'-7"	8'-10"	6'-7"	5'-11"
15	11'-8"	-	16'-1"	9'-4"	7'-1"	6'-5"
16	12'-2"	-	16'-7"	9'-10"	7'-7"	6'-11"
17	12'-8"	-	17'-1"	10'-4"	8'-1"	7'-5"
18	13'-6"	Motorized ETC P75, 2 <sup>nd</sup> LX	17'-11"	11'-4"	8'-11"	8'-3"
19	14'-1"	-	18'-6"	11'-9"	9'-6"	8'-10"
20	14'-7"	-	19'-0"	12'-3"	10'-0"	9'-4"
21	15'-1"	-	19'-6"	12'-9"	10'-6"	9'-10"
22	15'-7"	Ceiling canopy 2	20'-0"	13'-3"	11'-0"	10'-4"
23	16'-1"	-	20'-6"	13'-9"	11'-6"	10'-10"
24	16'-7"	-	21'-0"	14'-3"	12'-0"	11'-4"
25	17'-1"	-	21'-6"	14'-9"	12'-6"	11'-10"
26	17'-7"	-	22'-0"	15'-3"	13'-0"	12'-4"
27	18'-1"	-	22'-6"	15'-9"	13'-6"	12'-10"

28	19'-7"	-	24'-0"	17'-3"	15'-0"	14'-4"
29	20'-1"	-	24'-6"	17'-9"	15'-6"	14'-10"
30	20'-8 ½"	Motorized ETC P75, 3 <sup>rd</sup> LX	25'-1 ½"	18'-4 ½"	16'-1 ½"	15'-5 ½"
31	21'-7"	-	26'-0"	19'-3"	17'-0"	16'-4"
32	22'-1"	-	26'-6"	19'-9"	17'-6"	16'-10"
33	22'-7"	-	27'-0"	20'-3"	18'-0"	17'-4"
34	23'-1"	Ceiling canopy 3	27'-6"	20'-9"	18'-6"	17'-10"
35	23'-7"	-	28'-0"	21'-3"	19'-0"	18'-4"
36	24'-1"	-	28'-6"	21'-9"	19'-6"	18'-10"
37	24'-7"	-	29'-0"	22'-3"	20'-0"	19'-4"
38	25'-1"	-	29'-6"	22'-9"	20'-6"	19'-10"
39	25'-7"	-	30'-0"	23'-3"	21'-0"	20'-4"
40	26'-1"	-	30'-6"	23'-9"	21'-6"	20'-10"
41	26'-7"	-	31'-0"	24'-3"	22'-0"	21'-4"
42	27'-1"	-	31'-6"	24'-9"	22'-6"	21'-10"
43	27'-7"	-	32'-0"	25'-3"	23'-0"	22'-4"
44	28'-10 ½"	Motorized ETC P75, 4 <sup>th</sup> LX	33'-3 ½"	26'-6 ½"	24'-3 ½"	23'-7 ½"
45	29'-4 ½"	-	33'-9 ½"	27'-0 ½"	24'-9 ½"	24'-1 ½"
46	29'-10 ½"	-	34'-3 ½"	27'-6 ½"	25'-3 ½"	24'-7 ½"
47	30'-4 ½"	-	34'-9 ½"	28'-0 ½"	25'-9 ½"	25'-1 ½"
48	30'-10 ½"	-	35'-3 ½"	28'-6 ½"	26'-3 ½"	25'-7 ½"
49	31'-7"	Ceiling canopy 4	36'-0"	29'-3"	27'	26'-4"
50	32'-1"	-	36'-6"	29'-9"	27'-6"	26'-10"
51	32'-7"	-	37'-0"	30'-3"	28'-0"	27'-4"
52	33'-1"	-	37'-6"	30'-9"	28'-6"	27'-10"
53	33'-7"	-	38'-0"	31'-3"	29'-0"	28'-4"
54	34'-2 ½"	Motorized ETC P75, 5 <sup>th</sup> LX	38'-7 ½"	31'-10 ½"	29'-7 ½"	28'-11 ½"
55	34'-8 ½"	-	39'-1 ½"	32'-4 ½"	30'-1 ½"	29'-5 ½"
56	35'-2 ½"	-	39'-7 ½"	32'-10 ½"	30'-7 ½"	29'-11 ½"
57	35'-8 ½"	-	40'-1 ½"	33'-4 ½"	31'-1 ½"	30'-5 ½"
58	36'-7"	-	41'-0"	34'-3"	32'-0"	31'-4"
59	37'-11"	-	42'-4"	35'-7"	33'-4"	32'-8"
60	38'-5"	-	42'-10"	36'-1"	33'-10"	33'-2"



61	39'-1"	Motorized ETC P75, 6 <sup>th</sup> LX	43'-6"	36'-9"	34'-6"	33'-10"
62	40'-2"	-	44'-6"	37'-9"	35'-65"	34'-10"
63	40'-7"	-	45'-0"	38'-3"	36'-0"	35'-4"
64	41'-1"	-	45'-6"	38'-9"	36'-6"	36'-10"
	-	Back wall	49'-8"	42'-9"	40'-6"	40'-10"

## SOUND

### Main FOH System

EM Acoustics HALO line array system, 20 boxes per side L&R  
 (1) 8 speaker center cluster in soffit over Proscenium  
 (3) delay clusters, 8 boxes each (covers both balconies)  
 (16) EM Acoustics EMS-61, Orchestra level under balcony delay fills  
 (8) EM Acoustics EM-i2, front fill, deployable for various configurations  
 (8) EM Acoustics MSE-118 "Quake" Subs, folded horn (4 per side)  
 For info and specs on EM Acoustics speakers see: <http://www.emacoustics.co.uk/>

### Monitor System

(16) EM Acoustics M-12 stage monitor  
 (2) EM Acoustics EMS-152 side fill  
 (2) EM Acoustics EMS-215 side fill sub

### Amps

PowerSoft DIGAM K series. (12) K6-DSP, (9) K8-DSP, (1) K10-DSP, covers all FOH and Monitor amplification up to 16 onstage wedge mixes plus stereo side fill.  
 For info and specs on PowerSoft DIGAM K Series Amps see: <http://www.powersoft.it/>

### Consoles

(2) Midas Pro 6 Live Consoles, one FOH and one MON with all necessary peripherals.  
 Each console has its own Midas DL371 PRO 6 DSP engine with 5 DSP cards.  
 (2) Midas DL431 24 Channel 3-way mic splitter  
 (3) Midas DL451 for System Drive.  
 For info and specs on Midas Pro6 Live Consoles see: <http://www.midasconsoles.com/>

### Playback and Recording Rack

(1) HHB CDR-882 Dual Burn CD Recorder  
 (1) Tascam DV-D01U, Professional CD/DVD Player  
 (1) Tascam MD-350, Advance Grade Mini Disc Recorder  
 (1) Tascam 202mkv, Dual Cassette Deck

### Microphone Package

Sufficient number of various wired and wireless microphones and stands to support up to concert-sized events.

### Cabling

XLR cables: Adequate number of XLR Cable, sub-snakes and NL4 to support up to concert-sized events.

### In-house Mixing Position

The position is located at the rear of the auditorium, behind the center seating section.  
 The platform is 26'6" wide x 8'10" deep.  
 The direct distance to the stage is approx. 160' and requires a 250' snake.

## HEADSET SYSTEM

Clear-Com 4-channel Matrix system to most stage locations, dressing room and backstage.  
4 and 2-channel remote stations, single and dual channel belt packs, single and double muff headsets, light weight single muff headsets, telephone handset, and blazon beacon for sound engineers.  
Push to talk Paging/Program Monitoring routable to serve all backstage, booths and lobby areas.