Cinema₁₈₀®



Product Description:

Surround your audience with captivating color, action and sound. Memorable minutes of 'being there' transport you from one dramatic and electrifying experience to another. Exhibit this enormously successful 70mm film in a theater configuration designed to meet your space, mobility and budget requirements.

Features and Benefits:

70mm 5 Perf 2.2 to 1 Wide Film Format

High Intensity Xenon Light Source

Point of View Action on a Gigantic Quadrispherically Shaped Screen

Family Oriented Spherical Film Spectaculars Shot on Location Around the World

Ten (10) Years of Entertaining Audiences and Making Money for Operators.

Fourteen (14) Films in the Library

Perfected, High Profit, Big Capacity, Fast Turnover, Easy to Maintain, Safe

Six (6) Channel Sound

Superior picture resolution and sharpness. 450% larger than 35mm film frame.

Colors are crisper and picture is brighter.

Audiences are visually surrounded with fascinating color action and sound. The viewer is transported for twelve minutes from one dramatic and electrifying experience to another as objects and horizons fly by on the giant screen.

People of all ages and nationalities return again and again for the fun and enjoyment. They tell their friends, relatives and neighbors about the excitement and thrill of Cinema 1800.

Proven top attraction at fairs, exhibitions, tourist areas, traveling shows, theme parks, shopping malls and similar high traffic locations.

Each new film shown creates a whole new attraction year after year.

Excellent cost / capacity ratio. Modest initial capital expenditure. Low operating and maintenance costs. Low insurance cost.

Surrounds audiences with clean transparent sound. The realism of sound effects is heightened.



(Over)

Equipment Supplied:

Cinema 180® Projection Systems Cinema 180® Lens Theater Structures with Screens for new installations Frame Supported Screens for existing structures Mobile Trailer Mounted Theaters Omnisound System - 6 Channels

Options:
 Continuous Loop Film Cabinet
 Film Platter
 Conditioner Mobile Air Conditioner Ticket Box Portable Foundation Decorative Facade Power Roof Ventilator Custom Exterior Color for Theater Structure

Services Available:

Technical Representative Services for installation and preventive maintenance.
Custom Film Production
Custom Film Titles for Sponsors Foreign Language Narrations

*Film Available in 1986:

Crazy Wheels
International Thrill Show
Cavalcade of Thrills
Galaxy of Thrills
Wild Wild West
Fantastic Flights
Thrills of America

Flight 747 Blockbuster Pacific Pursuit Impact Hor i zons Colossus Demon Shock

* Available for lease only.

Lead Time:

Depending on Theater System Selected Ten (10) to Eighteen (18) weeks from confirmed contract order date.

Prices:

Quoted on Request

Cinema₁₈₀®



TECHNICAL DATA

CINEMA 1800 THEATER DOME MODELS 55A, 72A, 55XL & 72XL

DESCRIPTION

Cinema 180® is a 70mm film show attraction with strong drawing power. It surrounds an audience with captivating color, action and sound. Memorable minutes of "being there" transports them from one dramatic and electrifying experience to another on a giant quadrispherically shaped screen. Each viewer's automic nervous system perceives the experience as participatory.

Cinema 1800 can play all year to a broad market including adult, family, child, teen, resident and tourist. New programs are as easy as making a selection from the Cinema 1800 film library.

Cinema 180® offers high value and capacity for a low to moderate capital outlay. Sponsor appeal is high, operating and maintenance costs are low, and space requirements are minimal.

APPLICATIONS

Cinema 180® is ideally suited for presentation of Cinema 180® 70mm films at theme parks, amusement piers, planetariums, museums, World's Fairs, expositions, marine parks, industrial, commercial or institutional trade shows, sports arenas, stadiums, zoos and other high traffic locations.

PRODUCT INFORMATION

The Cinema 180® Theater Dome structure consists of a heavy-duty, flame resistant, vinyl-coated polyester roof and sidewall membrane tensioned over a galvanized steel frame. A quadrispherically shaped negative-pressure membrane projection screen attaches and seals to the frame and concrete floor. A blower located between the rear of the projection screen and the roof and sidewall membrane creates a negative pressure on the back side of the screen, causing it to take its proper quadrispheric shape.



Cinema 180® Theater Systems, available in four standard sizes, are specifically designed to exhibit Cinema 180®. Advantages offered by this system include fast delivery, consolidated packaging for efficient shipping, quick assembly, unobstructed clear span space, eye-catching design, good acoustics, low maintenance and high capacity.

All of the components selected for inclusion in the Theater System package have been selected with quality and dependability in mind.

STANDING AUDIENCE CAPACITY

ĸ	Model 55A	Model 72A	Model 55XL	Model 72XL
Per Show				
Standing/Seated	275/100	425/160	500/150	625/250
Per Hour				
Standing/Seated	825/300	1275/480	1500/450	1875/750

Note: Hourly capacities are based on three 12 minute shows per hour.

FOUNDATION DESIGN

To assist customers in proper foundation design, a Foundation Layout Drawing will be supplied indicating anchor bolt locations, concrete foundation piers, grade beam, floor, screen attachment on floor and base reaction loads for final foundation design by customer's registered professional engineer.

The final foundation design will be determined by the base reaction loads, soil conditions, wind and snow load requirements and local building code regulations. The final stamped foundation design, and all related costs shall be the responsibility of the customer.

MEASUREMENTS (Nominal	•	55A R SYSTEM	MODEL 72 THEATER S	
	Standard	Metric	Standard	Metric
Structure				
Plan Shape Width Length Interior Height Exterior Height Floor Area Surface Area Volume	Hexagon 55 ft. 47.5 ft. 27 ft. 30 ft. 1,965 sq.ft 5,140 sq.ft. 39,000 cu.ft.	478 sq.m	Hexagon 72 ft. 62 ft. 27 ft. 30 ft. 3,367 sq.ft. 5,713 sq.ft. 64,700 cu.ft.	Hexagon 21.95 m 18.90 m 8.23 m 9.14 m 313 sq.m 531 sq.m 1832 cu.m
Gravity Ventilator	one (1)	one (1)	one (1)	one (1)
Diameter Height	20 in. 19.5 in.	50.8 cm 49.53 cm		60.96 cm 55.88 cm
Projection Screen				
Width Height (Center) Depth (Center)	42 ft. 26 ft. 18 ft.	12.80 m 7.93 m 5.49 m	50 ft. 26 ft. 21 ft.	15.24 m 7.93 m 6.4 m
Double Door	two (2)	two (2)	two (2)	two (2)
Width Height	6 ft. 6.66 ft.	1.83 m 2.03 m	6 ft. 6.66 ft.	1.83 m 2.03 m
Shipping (Incl. Dome,	Projection, So	unđ)		
Weight Cubic	18,067 lbs. 1838 cu.ft.	8195 kg 52.2 cu.m	20,067 lbs. 1938 cu.ft.	9102 kç 54.85 cu.ı

MEASUREMENTS (Nominal)	MODEL 5 THEATER S	·	MODEL 72XL EATER SYSTEM	
	Standard	Metric	Standard	Metric
Structure				
Plan Shape	Hexagon w/l Bay Sect	6ft.(4.88m)	Hexagon w/20)ft.(6.10m)
Width	55 ft.	16.76m	Bay Secti	
Length	63 ft.	19.20m	72 ft.	21.95m
Interior Height	20 ft.		82 ft.	24.99m
Exterior Height	23 ft.	6.17m	27 ft.	8.23m
Floor Area		7.01m	30 ft.	9.14m
Surface Area	2845 sq.ft.			
Volume	4336 sq.ft.			
AOIGME	41644 cu.ft.	1179 cu.m	98700 cu.ft.	2795 cu.m
Gravity Ventilator	two(2)	two(2)	two(2)	two(2)
Projection Screen				
Width	42 ft.	12.80 m	50 ft.	15 04
Height (center)	19 ft.	5.79 m		15.24 m
Depth (center)	16 ft.		26 ft.	7.93 m
opin (other)	10 11.	4.88 m	21 ft.	6.40 m
Double Door	two(2)	two(2)	two(2)	two(2)
Shipping (incl. Dome, Projection, Sound)				
Weight Cubic	17,147 lbs. 1895 cu.ft.	7779 kg 53.63 cu.m	20,387 lbs 2095 cu.ft	. 9248 kg

DESIGN - MODELS 55A, 72A 55XL AND 72XL

	Standard	Metric	
Live Load	25 lbs/sq.ft.	122 kg/sq.m	
Wind Load	29 lbs/sq.ft.	141.6kg/sq.m	
Wind Speed	120 m.p.h.	193 km/hr.	
Seismic Load	Risk Zone 4	Risk Zone 4	

FIRE RESISTANCE

The Shelter-Rite fabrics used in the roof, sidewalls and projection screen meet the flame-resistant requirements of NFPA 701, California State Fire Marshal Code Title 19, UL 214 and Federal Standard 191. The fabrics will not support combustion. When a flame source is removed, the fabric will self-extinguish within two seconds.

SITE PREPARATION

Prior to arrival on site by the technical representative(s), purchaser must have site free and clear and completely prepared in a manner suitable for erection and installation of the delivered merchandise. The normal steps required to prepare a site completely are as follows:

- Clear and level site intended for theater dome installation.
- Lay out foundation.
- Dig holes for foundation piers and trench between piers for grade beam.
- Form piers and grade beam.
- Run conduit and wire for 1) projection booth or low profile projection system, depending on Theater Dome Model supplied,
 2) screen blower, 3) speakers, 4) house lights, 5) exit lights
- Set reinforcing bar in piers and concrete grade beam.
- Lay out wire reinforcing mesh for floor and door pads and make provision for audience handrail stanchion inserts (supplied by customer).
- Set anchor bolts (Shipped in advance of foundation pour.).
- Pour and finish minimum 2500 psi concrete for piers, grade beam and 4" floor and let cure for four to seven days previous to installation of theater dome.

INSTALLATION SEQUENCE

The purchaser and/or his general contractor must provide 1) power sufficient to operate tools, 2) a competent installation supervisor and labor crew, 3) all necessary equipment and equipment operators to complete installation of the delivered merchandise. Installation of a Cinema 180® Theater System normally follows the sequence listed below:

- Off load truck or container and sort load.
- Assemble steel frame on the ground into 1/2 arches.
- Install membrane seal for connection hub and screen arch.
- Erect steel frame.
- Install cross-cable bracing to frame.
- Install projection screen anchor base angle to concrete floor.
- Install vertical screen angles to frame.
- Attach continuous screen support angle to vertical screen angles.
- Set prefabricated Omni Films Projection Booth (if suplied) into position. If Low Profile Projection System is supplied, booth will not be required. Low Profile System should be installed after the Theater Dome erection has been completed.
- Lift pre-folded roof and sidewall membrane onto the connection hub at the center of the steel frame. (Leave in pre-folded configuration).
- Spread membrane over frame.
- Tension membrane to frame via catenary tensioning cables provided in pocket welds extending between and connecting to the tensioning device provided at each of the columns.
- Install Gravity Ventilator(s).
- Seal membrane to foundation.
- Install two double doors including frame, door panels and entrance canopy for each door.
- Install fabric projection screen to continuous rolled screen angle and anchor base angle.
- Install 15" blower with electric motor and attach to exit air duct in sidewall behind screen.
- Install Projection and Sound Equipment.

MANPOWER AND EQUIPMENT REQUIRMENTS

- One (1) Supervisor, preferably experienced in steel erection.
- Five (5) Laborers, perferably experienced in steel erection and able to work at 30 foot (9.133m) heights.
- One (1) Electrician.
- Two (2) Projectionists.
- Safety items for crew, i.e. hard hats, safety harnesses, etc.
- One (1) 80 foot (24.38m) boom crane with minimum 20 ton capacity plus assortment of cable or nylon slings.
- One (1) 30 foot (9.14m) scaffold mounted on wheels (lock type) for ease of movement for 55A, 72A, & 72XL. One (1) 24 foot (7.32m) for 55XL).
- One (1) 30 foot (9.14m) extension ladder for 55A, 72A & 72XL.
- One (1) 24 foot (7.32m) for 55XL.
- One (1) 8 foot (2.44M) stepladder.
- Two (2) 3/8" electric drills with assorted drill bits and 100 feet (30.48m) of extension cord.
- Two (2) 1-1/2 ton chain or cable come-a-longs for tensioning the fabric roof membrane.
- One (1) set open end box wrenches from 1/4" to 1-1/4".

- Two (2) block and tackle with rope adequate to make a 30 foot (9.14m) lift.
- One (1) pry bar.
- One (1) bolt cutter.
- Two (2) 3/8" drive ratchets and two 3/8" drives with deep sockets up to 1-1/4".
- One (1) builder's level.
- Two (2) work lights.
- Two (2) razor or utility knives.
- Two (2) 7/16" wrenches (72X and 72XL only)
- Assorted hand tools to include drift pins, adjustable wrenches. hammers, vice grips, pliers, hack saw, screwdrivers and other assorted hand tools.
- Recommended Standby Items:
 - One (1) combination generator-welder with minimum 200 amp capacity with welding rods.
 - One (1) cutting torch.

APPROXIMATE INSTALLATION TIME

Based on past experience, installation of a Cinema 180® Theater System is expected to be in the range of the time indicated below:

- One (1) Supervisor 12 days
- Four (4) to five (5) Laborers 8 days
- One (1) Electrician 3 days
- Two (2) Projectionists 4 days
- One (1) 80 foot boom crane 2 days
- One (1) Scaffold 6 days
- One (1) Combination generator-welder 3 days
- One (1) Cutting torch 3 days
- All other tools 8 days

The information presented above is provided as a helpful guide. It does not take into account any delays such as bad weather, strikes, equipment breakdown, etc. Approximate times above do not include site preparation; or installation of electric, air conditioning, facade, or queue rails. Omni Films International, Inc. and Seaman Corporation Building Systems Division assume no obligation or liability whatever in connection with the information presented above.

ELECTRICAL REQUREMENTS

50 Hertz - 6KW; 230/380 Volt; 3-Phase 60 Hertz - 6KW; 110/220 Volt; 3-Phase

Note: Additional power will be required if Theater has lighted decorative facade and/or air conditioning.

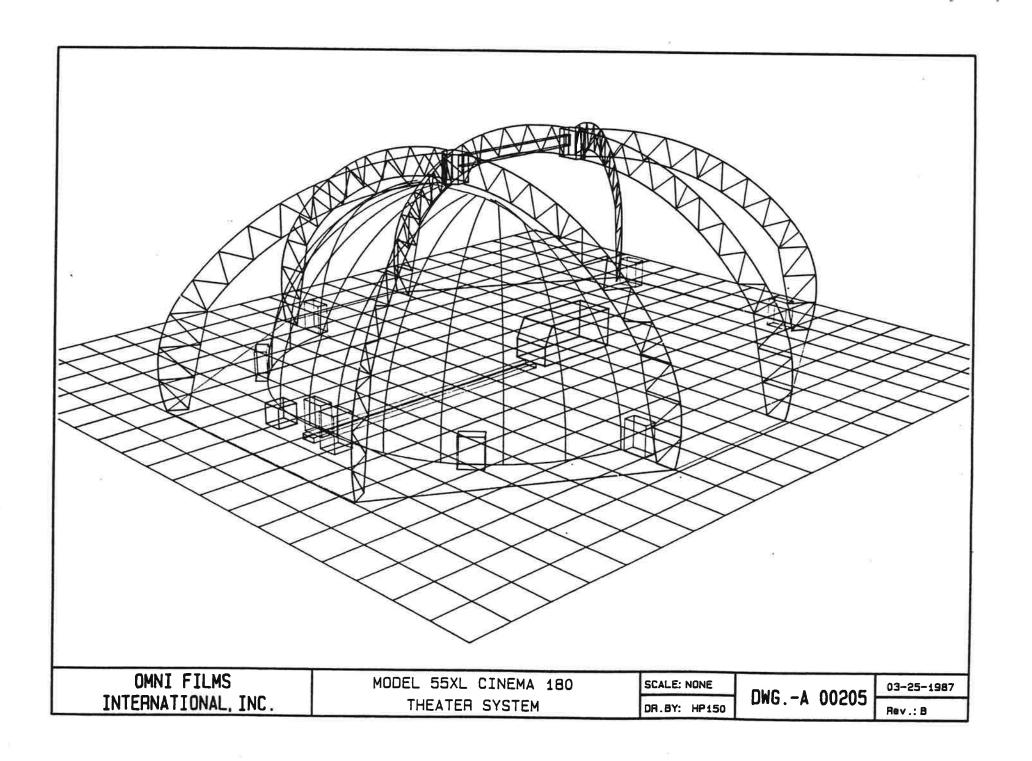
OPERATING PERSONNEL

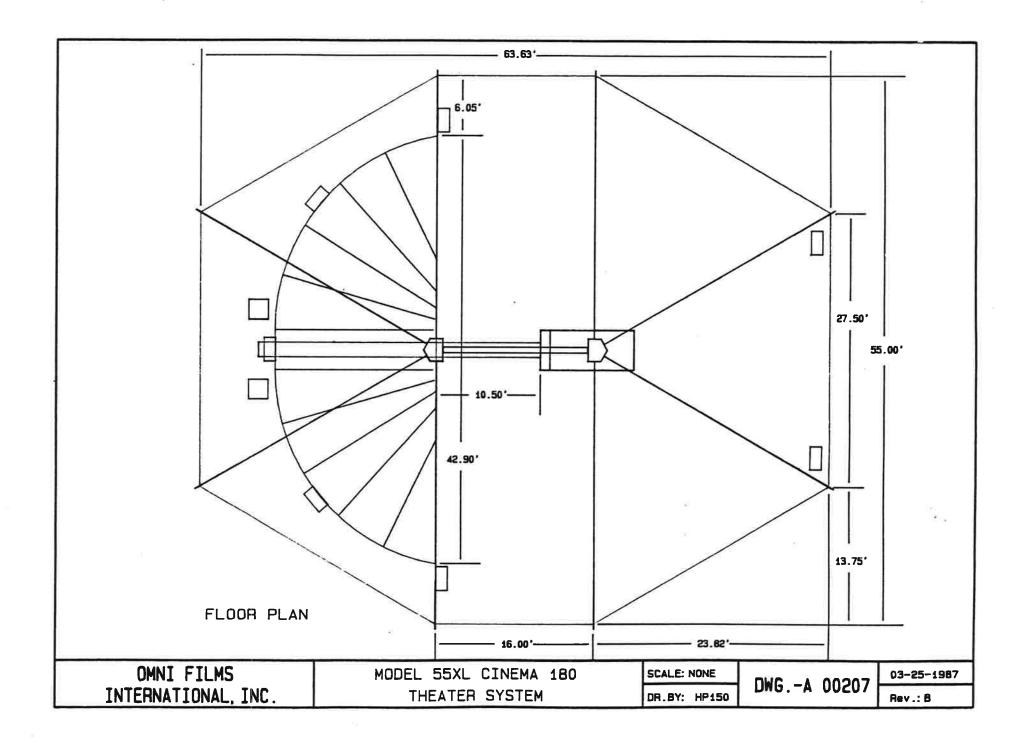
One (1) Projectionist

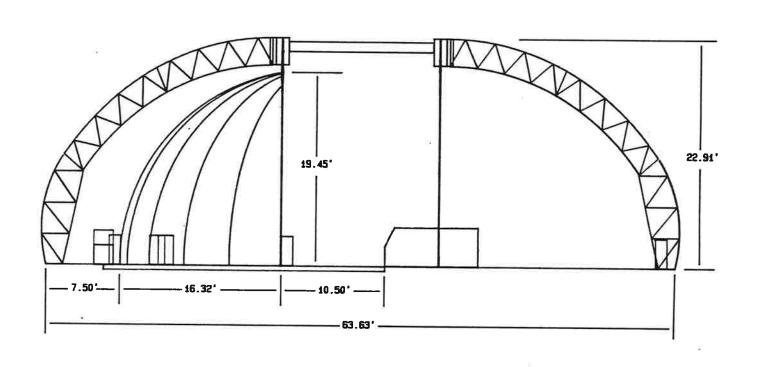
One (1) Usher (on high traffic days)

MAINTENANCE

Annual maintenance expense will average approximately \$2,900 per year for the 4500 Watt projection system to \$3,300 per year for the 7000 Watt projection system. Approximate annual expense includes one replacement Xenon projection lamp, miscellaneous spare parts, and prorated expenses for some long life components such as sound head and projector intermittent assembly.







SIDE ELEVATION

OMNI FILMS INTERNATIONAL, INC.

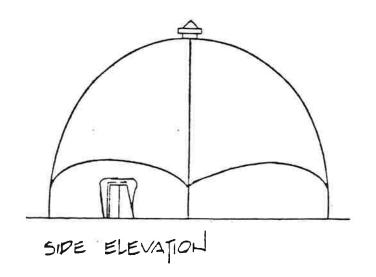
MODEL 55XL CINEMA 180 THEATER SYSTEM

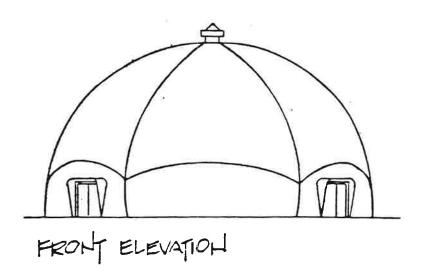
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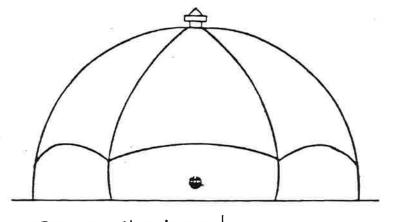
DWG.-A 00206 DR.BY: HP150

03-25-1987

Rev.: B

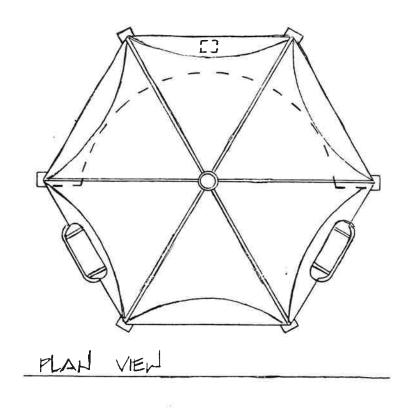






REAR ELEVATION

MODEL 55A CINEMA 180 THEATRE SYSTEM OHNI FILMS INTERNATIONAL, INC.



FLOOR AREA: 1965 50. FT.

183 50. FT.

5140 50. FT.

478 50. FT.

478 50. FT.

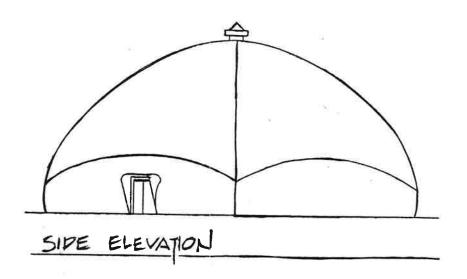
1104 CU. FT.

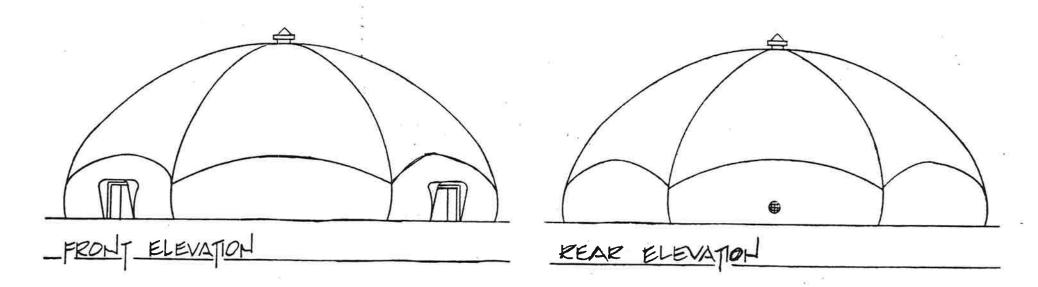
1104 CU. FT.

50.8 CFT.

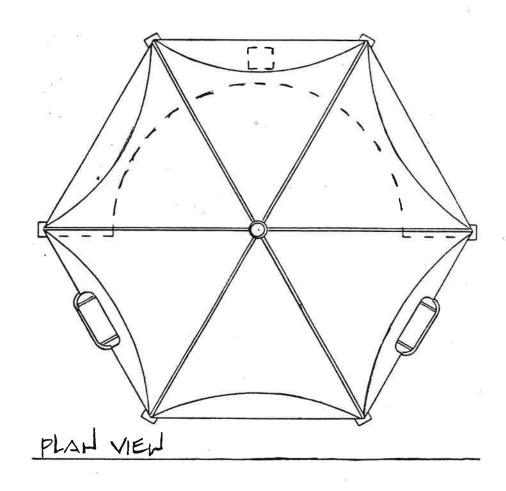
SHIPPING: CUBES 1200 CU. FT. 34 CU. FT.

MODEL SSA CINEMA 180 THEATRE SYSTEM OMNI FILMS INTERNATIONAL INC.





MODEL 72A CINEMA 180 THEATRE SYSTEM OMNI FILMS INTERNATIONAL INC.



FLOOR AREA:

33675QFT.

313 SQ. Ft.

SURFACE AREA: 5713 5Q.FT

531 5Q.Ft

volume

C4700 CJ. FT.

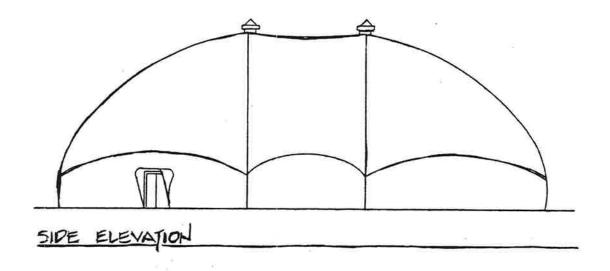
1832 al. Ft. 24 M.

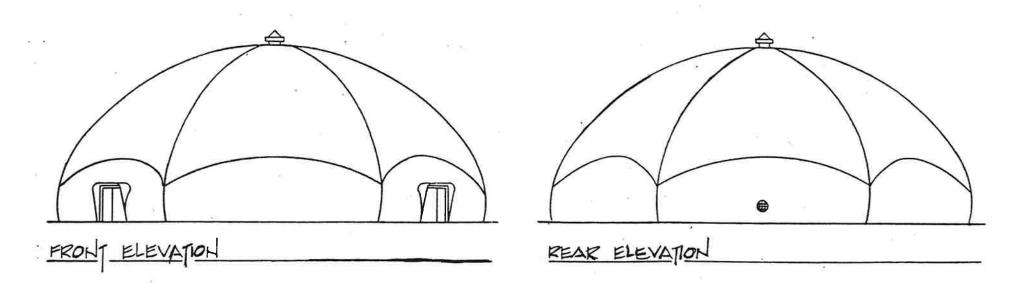
VEHTILATOR:

60.96 CH.

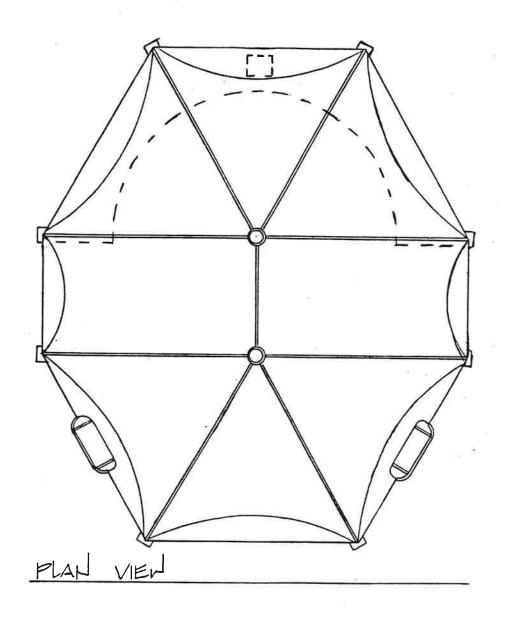
SHIPPING: CUBES:

1300 CJ. FT. 36.4 CJ. M.





MODEL 72XL CINEMA 180 THEATRE SYSTEM OMNI FILMS INTERNATIONAL INC.



FLOOR AREA: 4807 50.FT.

446.5750

SURFACE AREA: 7713 50.FT.

716.6 SQ.Ft.

VOLUME:

98700 CU.FT.

2795 CJ. Ft.

VENTILATOR: 12) 24 IN

12) 60.96 CFt.

shipping: cubes

19000 CJ. FT.

Madel 72xL cinema 180 THEATRE SYSTEM OMNI FILMS INTERNATIONAL INC.