

GATEWAY - NPS

FORT WADSWORTH

VISITOR CENTER

Exhibit Manual

National Park Service
Harpers Ferry Center
Division of Exhibits

Completed October 1996

CLEANING & MAINTENANCE

CLEANING AND MAINTENANCE OF EXHIBITS

Harpers Ferry Center Recognizes that general cleaning supplies are available in the park, such as white tissue wipe, brown paper towels and general purpose spray cleaners. These items are too harsh for sensitive exhibit surface finishes and **MUST NOT BE USED**. Appropriate alternatives are provided below.

Acrylic

Your display contains walls covered with a mirrored plexi. Care must be taken in cleaning the acrylic. To clean the plexi use an acrylic cleaner such as Kleenmaster Brilliantize, manufactured by Chemical Products Company. **Normal commercial cleaning agents or ammonia/water mixtures should never be used.** A soft cotton cloth such as a diaper or Wypall from Scott Paper Co. is the best choice. Do not use paper towels (they will scratch the acrylic surface). Apply the liquid to the cloth, wipe the surface and use another dry cloth to polish. Do not spray cleaner directly on the surface, as you can not avoid spraying adjacent surfaces. If the cleaner is sprayed on photos it will discolor them in time.

Photographs

These normally should only be dusted with a soft cloth if necessary. All photographs are prints which have been laminated on the surface with a clear plastic film containing a UV inhibitor. They should maintain their quality for 10 years.

Screened Text

All type, illustrations and graphics on laminate surfaces have been silkscreened and are most vulnerable to incorrect cleaning. When needed, dust with a soft, clean cloth. Otherwise, do not clean these unless dusting is not enough. Use a mild soap (Ivory Liquid) and water, rinse with clean water, and dry. Do not use any abrasive or commercial cleaners as they will remove the type and the paint. Above all do not rub, scrub, or scratch these surfaces.

Faux Finishes

The exhibit areas that are recreations of a fort casemate are very fragile surfaces and need to be treated carefully when cleaning. A clean feather duster is adequate for general cleaning. If it becomes necessary to clean some areas due to hand prints, etc. a very soft brush dipped in clean cool water and then applied to the surface with a very light stroke should remove dirt. Do not saturate the surface. Let dry completely and check surface before trying the same procedure again.

**Cannon
Replica
and
Finished
Surfaces**

The cannon in the casemate is a recreation of a 10" Rodman and carriage. It has been finished with a and durable paint and should need no more than dusting with a clean feather duster. If it should need more than this a clean soft cloth dampened in cool water can be wiped over the surface. Other painted surfaces should be cleaned with the same procedures.

Lighting

The fixtures over Exhibits 4 thru 8 and Exhibit 10 are standard double flourescent fixtures. The lamps can be changed simply by removing the burned out lamp and inserting a new one. The lamps are all cool white. The four foot fixtures are 40 watt lamps, the three foot fixtures are 30 watt and the two foot are 20 watt.

Mannequins

The mannequins are fabric covered bendable forms with clothing reproduced to match uniforms of the time period applicable to the fort. Dust the mannequins and clothing with a feather duster.

CLEANING AND REPAIR SUPPLIES

Product

Novus Polish #1 & #2

Manufacturer or Distributor

Novus, Inc.

Minneapolis, MN 55438

For nearest distributor, call 1-800-548-6872

Kleenmaster Brilliantize

Chemical Products Co., Inc.

Omaha, Nebraska 68102

For nearest distributor, call 1-800-445-9344

Windex/Endust

Drackett Products, Co.

5020 Spring Grove Avenue

Cincinnati, OH 45232

DAMAGE REPAIRS

Wood Finishes: To repair a scratch or gouge in a finished wood, lightly sand the damaged area to smooth the surface, then brush or dab on a small amount of the appropriate finish coat as required (clear varnish or wood stain then clear varnish).

Plastic Laminate: Small scratches or chips in plastic laminate may be touched up with a matching paint or a laminate seamfil kit; if this proves to be insufficient, it may be necessary to remove the damaged laminate entirely, and relaminate the component with new material.

Acrylic: Small scratches in acrylic may be buffed out using Novus Polish #2, which may be applied by hand using a soft rag. After buffing out the scratch, polish the area using Novus Polish #1 or Kleenmaster Brilliantize. Very deep scratches, gouges or cracks may necessitate the fabrication of a new acrylic component.

MATERIALS

WARRANTY

Exhibit Guarantee:

The exhibit structures, photographs, type, cases, and cabinetry are guaranteed for one year from the date of installation from defects or damage that occur as a result of poor workmanship, or material failure. Any failure of the components should be reported to Harpers Ferry Center, Division of Exhibits immediately after discovery. Within that year period, the contractor is responsible for fixing the exhibits at his expense, but cannot be held responsible for damage by visitors or park personnel during the guarantee period. Examples of repairs which fall under the guarantee are:

- photographs that fade, bubble, peel, shrink or craze
- plastic laminate that de-laminates from structures

Emergency Repair:

Damage of an emergency nature should be reported to the System Support Office and Harpers Ferry Center as soon as possible. Exhibits which are broken, heavily damaged, or destroyed need immediate attention. Examples of emergencies are:

- exhibits that have been vandalized or stolen
- exhibits damaged by fire, smoke, electrical storms, or other accidental events

In the case of emergency requests, Harpers Ferry Center will attempt to determine the extent of damage and the best method to proceed with repairs.

It is anticipated that the exhibits will eventually deteriorate because of visitor use, climate, and age and that they will need repair. Materials used to produce the exhibits including drawings, graphics, copy lists, negatives, color specifications and samples are kept on file by the Division of Exhibits at Harpers Ferry Center.

Maintaining the exhibits in your Park includes making minor repairs to the exhibits. Repairs which cannot be done by your staff should be listed and sent to your System Support Office. The Chief of Interpretation in your region will prioritize the requests and determine how they will be funded.

Your request for rehab should contain the following information:

- a brief description of the problem,
- an estimate of the time the problem has existed,
- name of the person having responsibility for correcting it,
- identification numbers from the plan or graphic, text, and object lists,
- sizes of damaged items,
- photographs, if they help to describe the problem.

Indefinite Quantity:

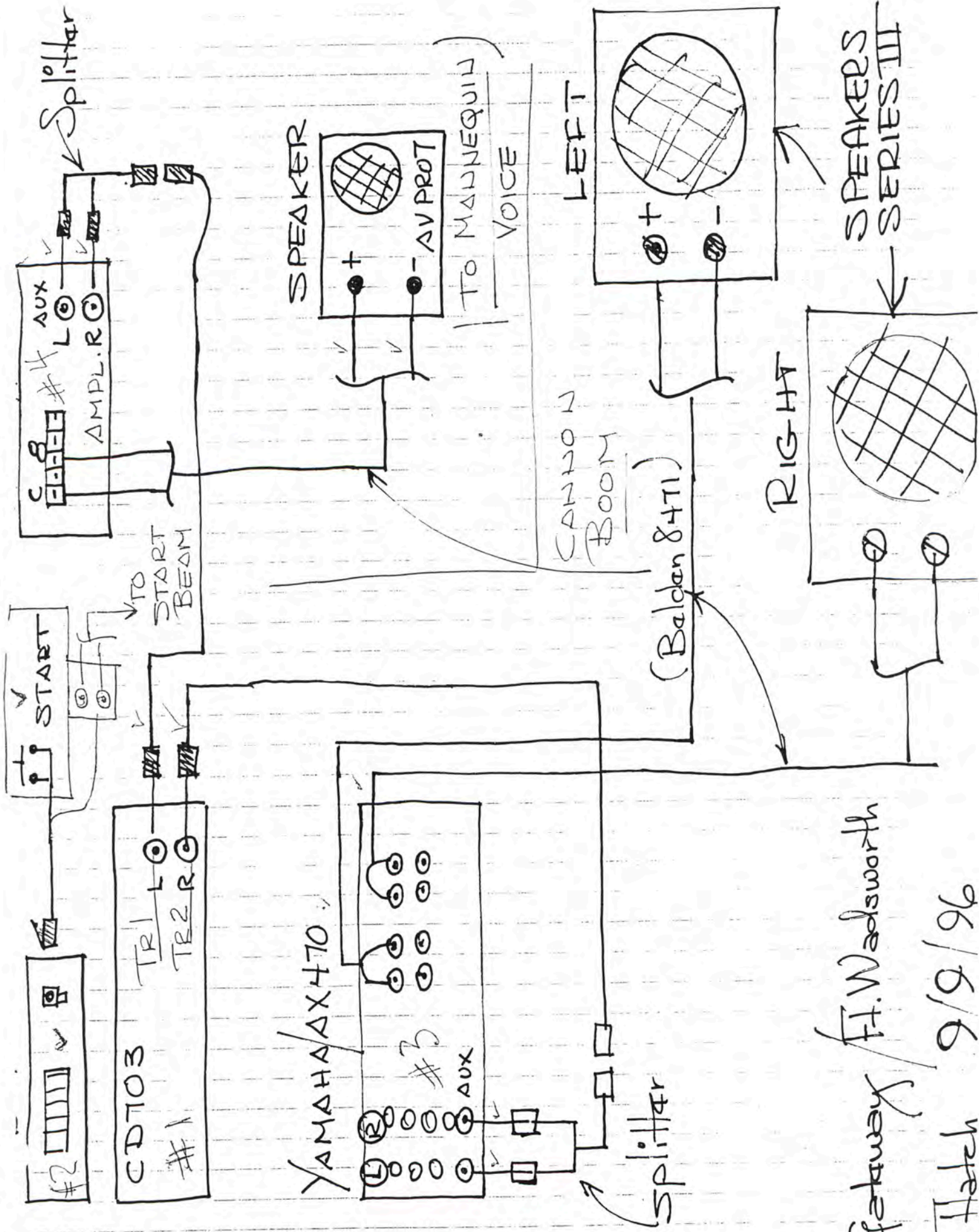
Much of the rehab work can be accomplished through the Indefinite Quantity Exhibit Contract which is administered by Harpers Ferry Center. This contract has been competitively awarded to a number of exhibit production firms throughout the United States. Task Orders can be issued for work under the contract without additional competition. Harpers Ferry Center will issue a Task Order after receipt of a memo from your System Support Office to the Manager, HFC, and approval by Chief, Division of Exhibits. Follow instructions as stated in the "Harpers Ferry Center's role in providing contractual help for parks" memorandum, dated September 30, 1988.

<u>SUPPLIER</u>	<u>ADDRESS / PHONE #</u>	<u>MATERIAL SUPPLIED</u>
Alliance Products	1451 Cobb Ind. Dr. Marietta, GA 30066 770/428-9900	Formica / Putty Gray #931-58 Formica / #2171 Double brushed alum Masonite temp. both sides
Anderson-McGriff	404/355-2760	Johnsonite wall base DC-18 Navy blue
Anchor Trading Co.	P.O. Box 241 Tavernier, FL 33070 305/852-5040	Two 10" Rodmans (fiberglass) One 10" Rodman gun carriage
APA Color Labs	1451 Northside Dr. NW Atlanta, GA 30318 404/355-1355	All exhibit photography mounted and overlamine per NPS specs
Bendies Forms, Inc.	514/378-9928	Mister-X mannequins with face, color #07 steel grey #2001/17 velvet finish
Custom Metals	800/850-9144	Metal doors and gun tube per drawing 4,5 & 6
Duron Paints	2502 Lantrac Ct. Decatur, GA 30035 770/987-8561	Multispec #MS86-3525
Freudenberg Building Systems	800/332-NORA	Nora rubber flooring #825 -1910 style #0884
Grainger	770/496-9994	Retro reflective photoelectric sensor AC #2A183 Reflectors #6P567
Highland Hardware	404/872-4466	Grey Aniline Dye
Home Depot		Multi-purpose Thin-set Mortar Gray
Laird Plastics	770/351-1750	1/4" x 4' x 8' mirror plexi

<u>SUPPLIER</u>	<u>ADDRESS / PHONE #</u>	<u>MATERIAL SUPPLIED</u>
Lockfast	404/422-7122	66" wide Mardi-Gras neutral fabric
McEwen Lumber	800/234-8865	3/4 x 4' x 8' MDF 3/4" x 4' x 8' Birch Plywood
McMaster-Carr	770/349-9700	Rubber balls #96405K75 Rubber tack bumpers #9626K34
Morrison Supply	770/455-8244	Nevamar / Fossil Gray #S631T
Naz-Dar	770/476-0510	Silkscreen Inks Lemon yellow #9611 Warm red #9600 Green #96441 Process blue #96440 White #9625
Outwater Plastic	800/631-8375	Plexi tube #GG6R-RD T-mold #105-658 color #386 Bronze T-mold #105-658 color #131 Blue
P&S Electrical	770/922-6101	48" double fluorescent fixture 36" double fluorescent fixture 24" double fluorescent fixture
Rainbow Decorating	770/469-5403	B / M Ironclad #163 black - 80 Benjamin Moore#1631 Latex eggshell Benjamin Moore #777 eggshell
Reece Supply	404/934-3400	Vinyl #230-121 silver Vinyl #220-229 bronze Vinyl #3650-217 metallic blue Vinyl #3650-211 metallic gray
Rugby Pionite	404/622-1571	Pionite/ Greige #SG210 Pionite / Storm Cirrus #AG281 Pionite / Indigo Blue #SB-006-S

<u>SUPPLIER</u>	<u>ADDRESS / PHONE #</u>	<u>MATERIAL SUPPLIED</u>
Sherwin Williams	765 North Avenue NE Atlanta, GA 30306 404/873-6723	Polane-Tmatch Pionite #SB006 Acrylic enamel to match PMS #400C Satin acrylic enamel match PMS 452 Acrylic enamel match PMS #8702C Acrylic enamel match PMS #8882C Acrylic enamel match PMS #418C
Tekra Corp.	800/248-3572	48" lexan velvet finish frosted one side
Tull Metal	770/368-4200	1 1/2" x 1 1/2" aluminum angle
Tylers Display Supply	770/355-9355	48" and 6' aluminum "Z" bar
Wrisco	770/622-1066	4' x 8' sheets anodized aluminum

AUDIO VISUAL



Gateway / F. Wadsworth
 F. Hatch 9/9/96

CATALOG CUTS

90PAR38/HAL/SP/RP
15539

SYLVANIA



Halogène 1 300 90
LUMENS WATTS
à faisceau étroit Intérieur/Extérieur 120v



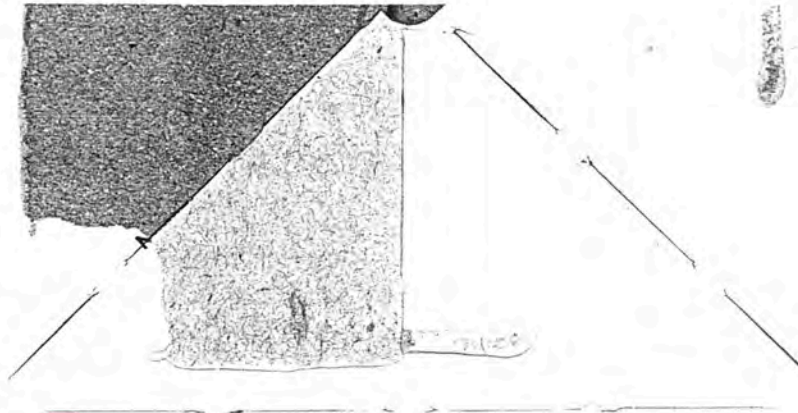
réaliser des économies sur les coûts
requises, déterminez la lampe ayant l'étalement de
et le flux lumineux requis puis choisissez celle
puissance en watts est la moins élevée.

ement aisceau	Flux lumineux	Énergie consommée	Vie
2° au étroit	1 300 lumens	90 watts	2 500 heures

PROOF OF PURCHASE
PREUVE D'ACHAT

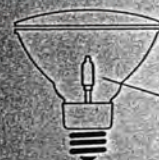
90PAR38/HAL/SP/RP

4613515539



Halogène Capsylite^{md} PAR 38 À faisceau étroit

La lampe-reflecteur à halogène à faisceau étroit produit son extraordinaire rendement grâce à une capsule de tungstène halogène alliée à un système unique de lentille/reflecteur fonctionnant sensiblement de la même façon que le phare à halogène utilisé dans les automobiles actuelles.



Système de lentille spécial—concentre le faisceau lumineux

Capsule de tungstène halogène—offre une lumière naturelle plus éclatante



Garages/entrées d'auto



Eclairage Commerciales



Eclairage d'aménagement paysager

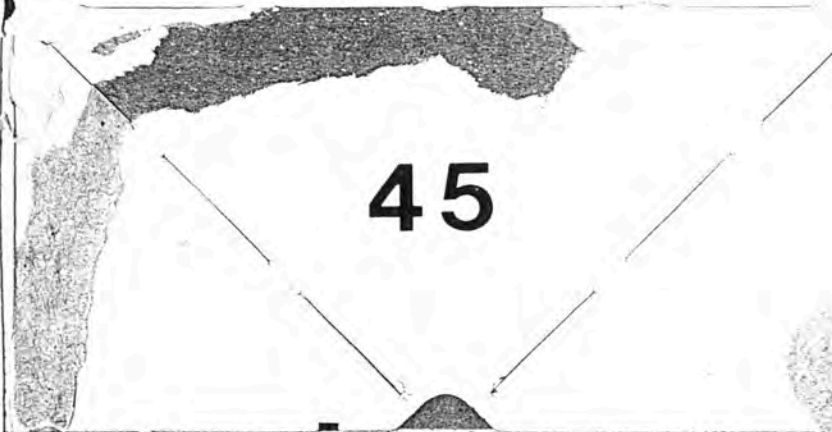


Eclairage sur rail

MISE EN GARDE

Cette lampe produit une chaleur considérable. Ne pas faire fonctionner lorsque des matériaux ou matières combustibles peuvent être affectés par la chaleur ou le dessèchement. Contrairement aux autres lampes à incandescence, les lampes à halogène peuvent continuer de s'allumer après que l'ampoule ait été endommagée à la suite d'un usage abusif. Dans un tel cas, la lampe à halogène doit être remplacée immédiatement puisque la capsule interne fonctionne à une température et à une pression élevées et pourrait éclater inopinément présentant ainsi un risque de dommage à la propriété ou de blessure corporelle.

SYLVANIA is a registered trademark of OSRAM SYLVANIA INC.
SYLVANIA est une marque déposée sous brevet de OSRAM SYLVANIA INC.



SYLVANIA
CAPSYLITE®
Halogen Par 38

90W PAR38 / CAP / SP
S. JT 14580
90W 120V

Medium Skirted Base

50
watts of light for

90 Watts/2500 Hour Life Indoor/Outdoor

SYLVANIA
CAPSYLITE®
Halogen Par 38

SYLVANIA
CAPSYLITE®
Halogen Par 38



150
watts of light for

90 Watts/2500 Hour Life Indoor/Outdoor

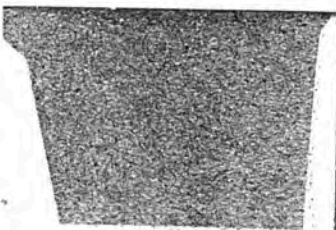
9003-0918
N90103



12V 50W 25' NFL Beam/Faisceau
50MR16Q/25/NFL

EXZ

SYLVANIA
SYLVANIA



- Les contacts de douille peuvent affecter la durée de la lampe, ils doivent être remplacés s'ils sont usés.
- Pour une utilisation sûre et appropriée de la lampe, n'utiliser que dans du matériel conçu pour ce type de lampe.
- Remplacer tous les couvercles et protecteurs de matériel pour éviter les blessures ou les dommages matériels.

RELAMPING

- To avoid damaging the glass, do not touch bulb or inside of reflector with bare hands.
- Turn off power to avoid electric shock.
- Wait for lamp to cool to avoid skin burns.
- Bi-Pin base will be damaged if you don't pull old lamp straight out and push new lamp straight in.
- Socket contacts may affect lamp life, replace if deterioration is observed.
- For proper lamp operation and safety, use only in equipment designed for this lamp type.
- Replace all equipment covers and shields to prevent personal injury or property damage.

OSRAM SYLVANIA INC.

Winchester, KY 40391-2298

Assembled in Mexico/Assemblé au Mexique

For Product Information: 1-800-LIGHTBULB

OUTWATER **P**LASTICS **I**NDUSTRIES, INC.



4 Passaic Street • Wood-Ridge, NJ 07075

Phone: (201) 340-1040 or 1-800-631-8375 • Fax: (201) 916-1640 or 1-800-888-3315

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1995-B

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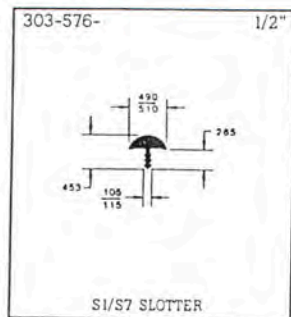
Phone: (201) 365-2002 or 1-800-835-4400 • Fax: (201) 778-8231 or 1-800-835-4403

Showroom/Warehouse

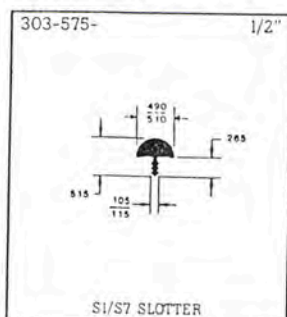
Broadway/7 White Street
915-4745 • Fax: (212)

303 SERIES - BUMPER MOULDING

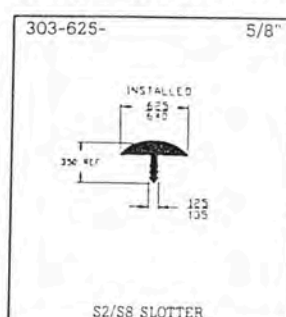
PVC - 250 FT. COILS - WHITE-BLACK-BROWN



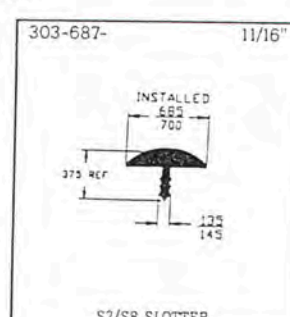
250 FT.	1000 FT.	5000 FT.
.29'	.24'	.23'



250 FT.	1000 FT.	5000 FT.
.32'	.265'	.25'



250 FT.	1000 FT.	5000 FT.
.31'	.26'	.23'



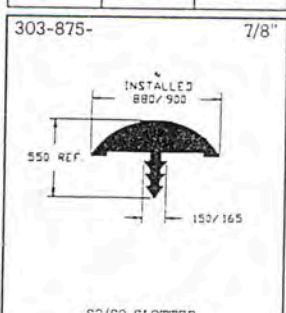
250 FT.	1000 FT.	5000 FT.
.32'	.27'	.24'



250 FT.	1000 FT.	5000 FT.
.36'	.31'	.29'



250 FT.	1000 FT.	5000 FT.
.37'	.33'	.31'



250 FT.	1000 FT.	5000 FT.
.43'	.38'	.36'



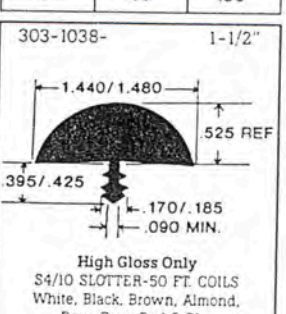
250 FT.	1000 FT.	5000 FT.
.44'	.39'	.37'



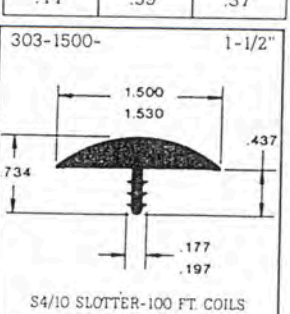
250 FT.	1000 FT.	5000 FT.
.47'	.43'	.41'



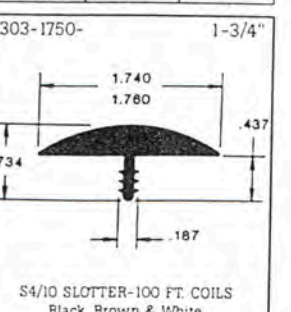
250 FT.	1000 FT.	5000 FT.
.72'	.61'	.54'



250 FT.	1000 FT.	5000 FT.
1.47'	1.15'	1.10'



250 FT.	1000 FT.	5000 FT.
.75'	.68'	.63'



250 FT.	1000 FT.	5000 FT.
.95'	.89'	.84'

SPECIAL COLORS AVAILABLE - 5,000 OR 10,000 FT. MINIMUM - PLEASE INQUIRE

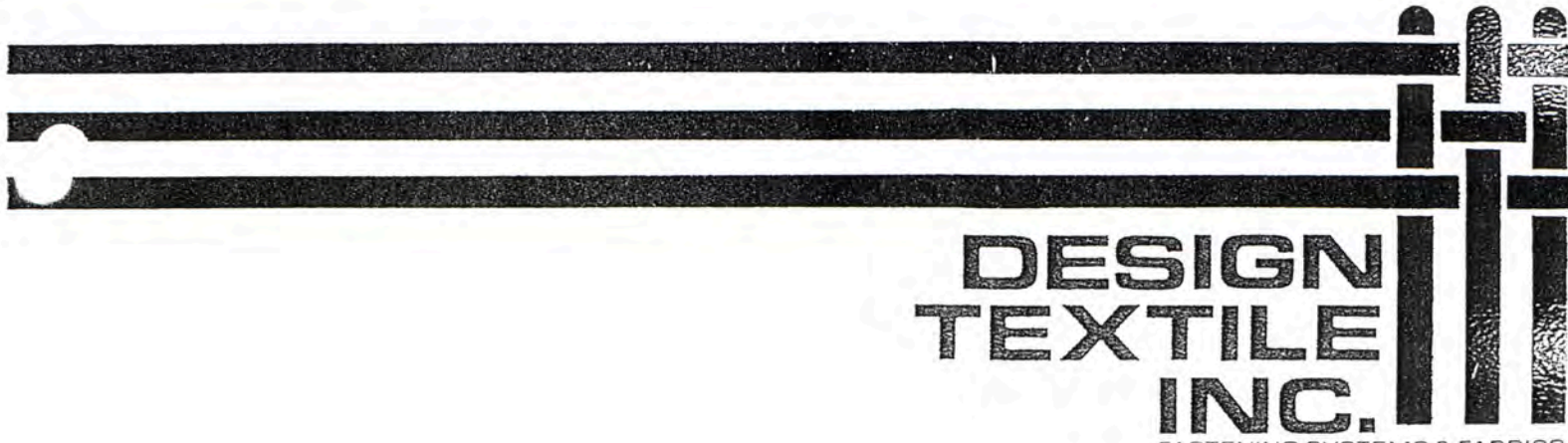
PLEASE ASK FOR OUR SELECTION KIT #2

PLEASE NOTE: When ordering, be sure to use the proper code for the color needed. White=WH, Black=BK, Brown=BR, Almond=AL, Dove Grey=DG, Oak Woodgrain=OK, Slate Grey=SG, Red=RD, Blue=BL. (ex. 303-576-BK)



OUTWATER PLASTICS INDUSTRIES, INC.

4 Passaic Street
Wood-Ridge, NJ 07075



**DESIGN
TEXTILE
INC.**

FASTENING SYSTEMS & FABRICS
Subsidiary of LOCKFAST, INC.

SPECIFICATIONS

100% Polyester Fabric; 26 pick, 20 ends $\pm$ 1; 17.5 oz./Lin. yd. $\pm$.5 oz.

Tested Toughness — This fabric has been tested by an independent testing laboratory against standards for upholstery fabrics set by the National Association of Furniture Manufacturers.

	NAFM REQUIREMENT	MARDIGRAS FABRIC
BREAKING STRENGTH (A.S.T.M. D-1682-59T Grab Method)	50 LBS.	150 lbs./Min. Warp & Filling
TEAR STRENGTH (A.S.T.M. D-39-61)	6 LBS.	20 lbs. Min.
PERCENT SHRINKAGE (NAFM-F-5A-T)	5% Maximum	Less than 1%
SEAM SLIPPAGE (Method 5420 Modified (DDD-T-191B))	25 LBS.	45 +
ABRASION (Wyzenbeek Method C. of A.S.T.M. D-1175-61T) Head Load - 3 lbs. Tension - 4 lbs. Abradant - No. 8 Canvas Duck	15,000 Double Rubs	30,000 + Double Rubs
LIGHT FASTNESS (A.A.T.C.C. Method 16A-64)	40 HRS	60 Hrs.
CROCKING (A.A.T.C.C. Method 8-61)	Dry—Class 4 Min. Class 5—No Crocking Wet—Class 3 Min. Class 5—No Crocking	

Flame Retardancy — This fabric has the following flame resistant characteristics:

FLAMMABILITY	TEST METHOD	CLASSIFICATION/DATA
CIGARETTE IGNITION	UFAC	CLASS I
CALIF. BULLETIN 117	CS 191-53	CLASS I

MARDI GRAS® FABRIC SAMPLER



CINCINNATI

10904 Deerfield Road
Cincinnati, OH 45242
513-891-5020
800-543-7157 out of state

ATLANTA

801-K Blacklawn Rd.
Conyers, GA 30207
404-929-8080
422-7122

LAS VEGAS

4530-H Andrews Street
N. Las Vegas, Nevada 8903
702-644-0666 in Nevada
800-626-0034 out of state

MARDI GRAS 66"

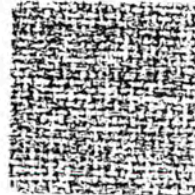
DISPLAY LOOP FABRIC



Imperial



Atlantic



Sky



Cobalt



Marine



Slate



Zinc



Pewter



Graphite



Frost



Greystone



Grape



Evergreen



Teal



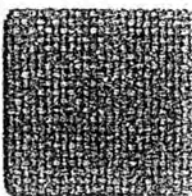
Neutral



Sahara



Poppy



Blush



Garnet



Port



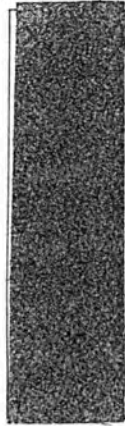
Sable

Sélection de couleur

COMMANDER YOUR NUMÉRO
DE COULEUR S.V.P.
PLEASE ORDER BY COLOR NUMBER

Color Selection

WHITE
BLANC 0001



PINK
ROSE 96



YELLOW
JAUNE 3005



ORANGE
ORANGE 2007



SCARLET RED
ROUGE ÉCARLATE 1016



RED
ROUGE 1015



MEDIUM BLUE
BLEU MÉDIUM 5015



ROYAL BLUE
BLEU ROYAL 5010



VIOLET "C" 5264



NAVY BLUE
BLEU MARINE 5035



DARK GREEN
VERT FONCÉ 4018



BLACK
NOIR 7102



SKINTONE
COULEUR CHAIR 14



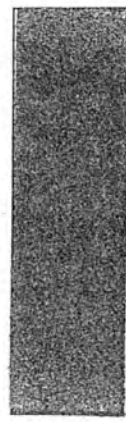
DESERT SAND
SABLE 16



COPPER
CUIVRE 19



BROWN
BRUN 24

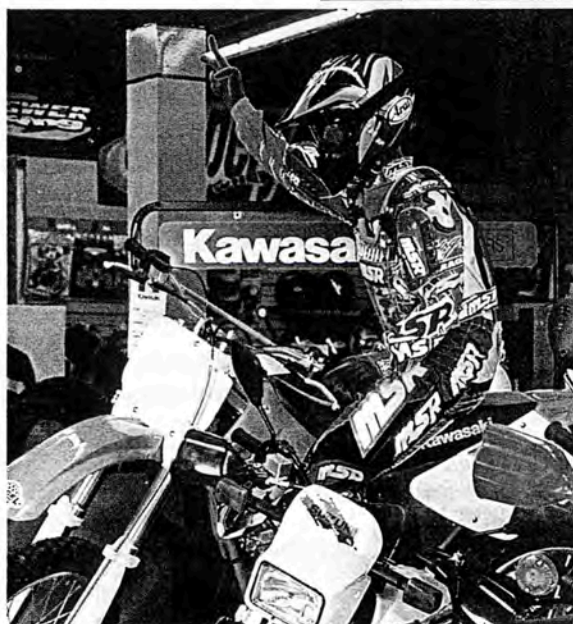
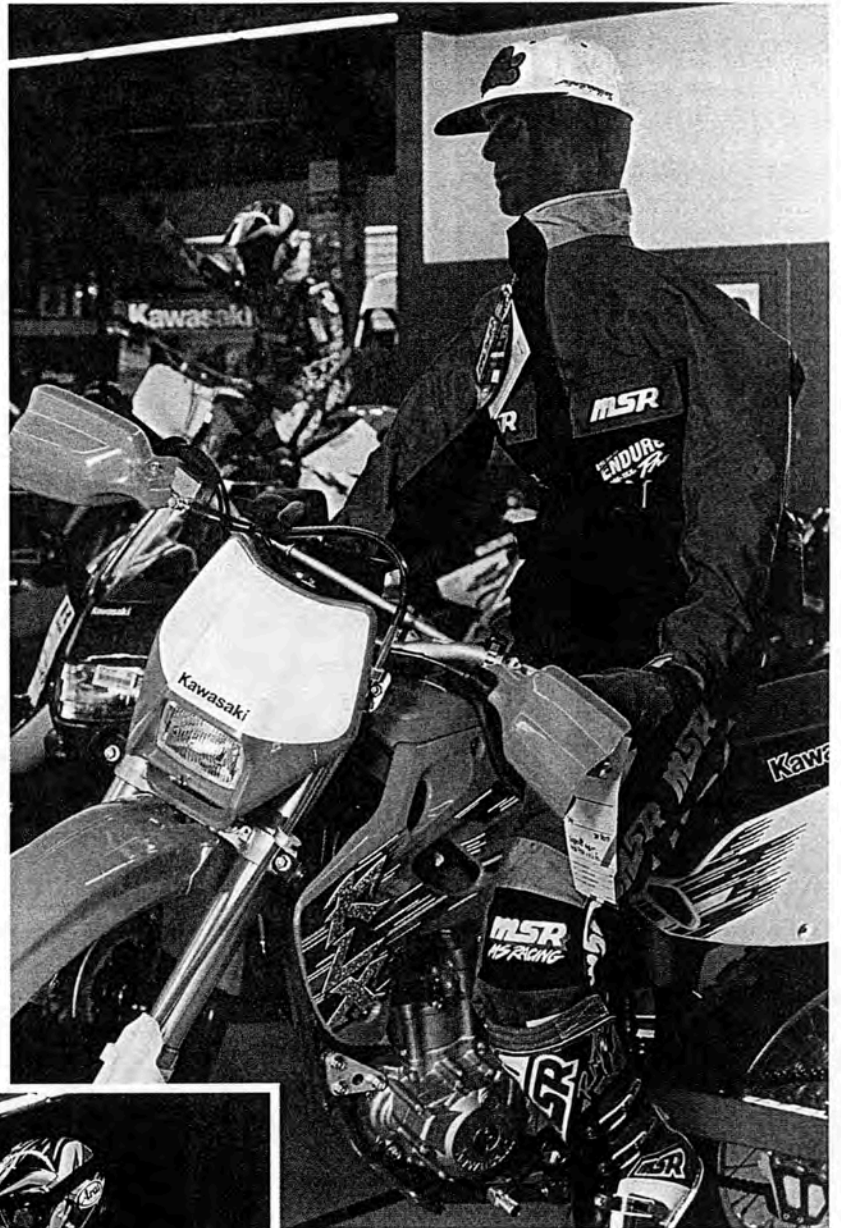


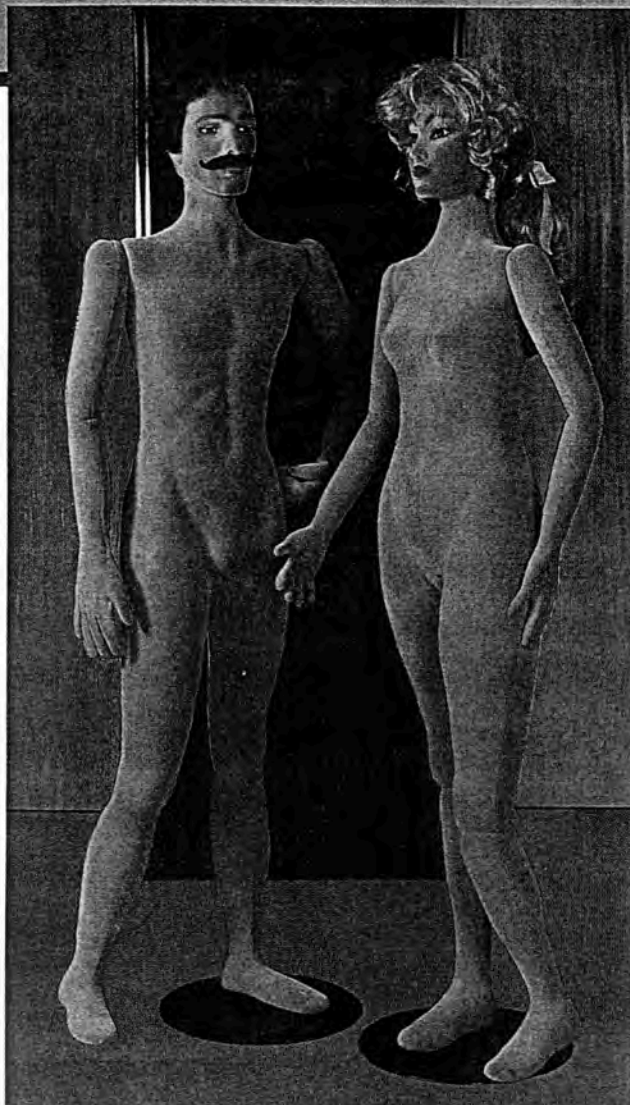
MOUSE GREY
GRIS SOURIS 09



STEEL GREY
GRIS ACIER 07

ADULT MANNEQUIN ADULT





2202 / 2



2202 / 1

**New-look series hand painted,
realistic make-up and soft wigs.**

***Nouvelles séries de visage stylisé,
peint à la main avec perruque souple***

PRODUCT NO.	DESCRIPTION	SIZE
2202/1	Lady Mannequin, blue eyes, Wig # 5635 CARMEN Color 130 Copper Red <i>Mannequin dame, yeux bleus, Perruque # 5635 CARMEN Couleur 130 Roux cuivré</i>	68 1/2"
2202/2	Lady Mannequin, green eyes, Wig # 5859 LISA Color 27 Strawberry Blond <i>Mannequin dame, yeux verts, Perruque # 5859 LISA Couleur 27 Châtain clair</i>	68 1/2"
	Other Lady Wigs available # 5525 SAMANTHA Color 17/101 Medium Ash Blond <i>Autres perruques de dames disponibles # 5525 SAMANTHA Couleur 17/101 Blond cendré</i>	
2204/1	Male Mannequin, brown eyes, Wig # M127 Color 8 Brown, with mustache <i>Mannequin male, yeux bruns, Perruque # M127 Brun Couleur 8 Brun, avec moustache</i>	71"

NOTE: Wig and mustache not included in the price.
*Perruque et moustache ne sont pas incluses
dans le prix*



2204 / 1

DISTRIBUÉ PAR / DISTRIBUTED BY

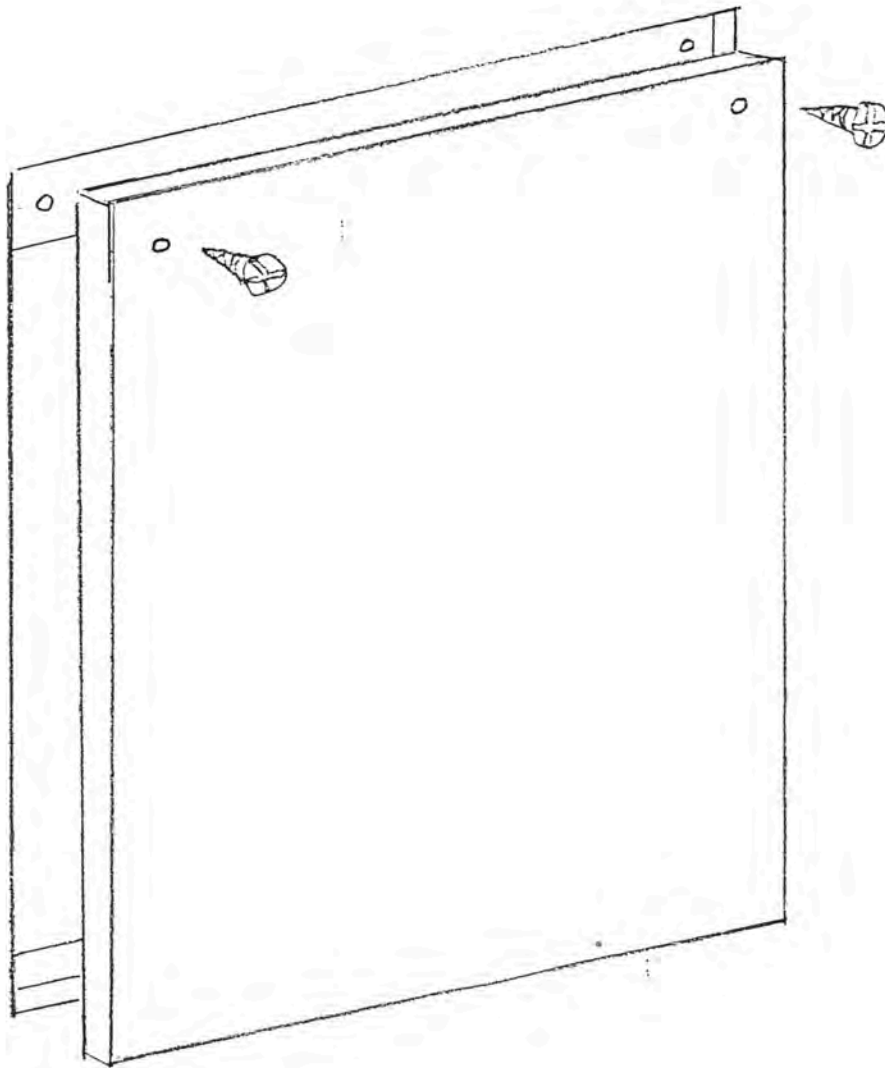


EXHIBIT 11 / ACCESS DOOR TO A/V EQUIPMENT
SEE DETAIL DRAWINGS 4/12 FOR LOCATION

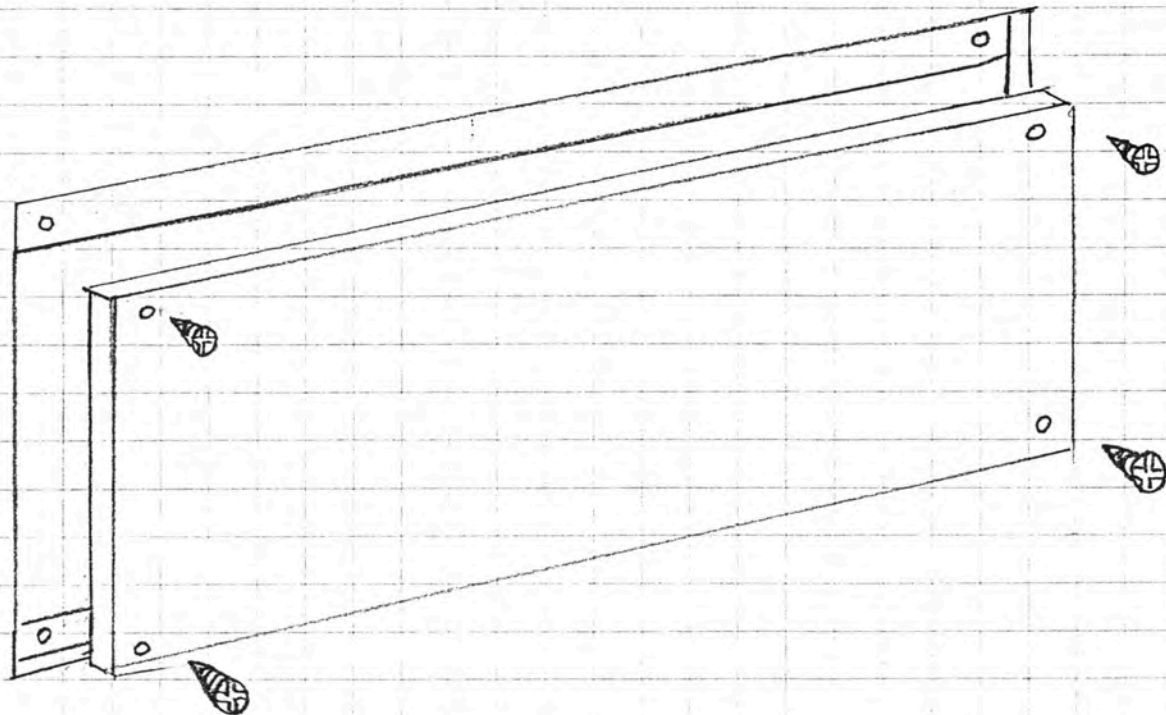


EXHIBIT 12 / ACCESS DOOR

SEE DETAIL DRAWINGS 6/16 FOR LOCATION

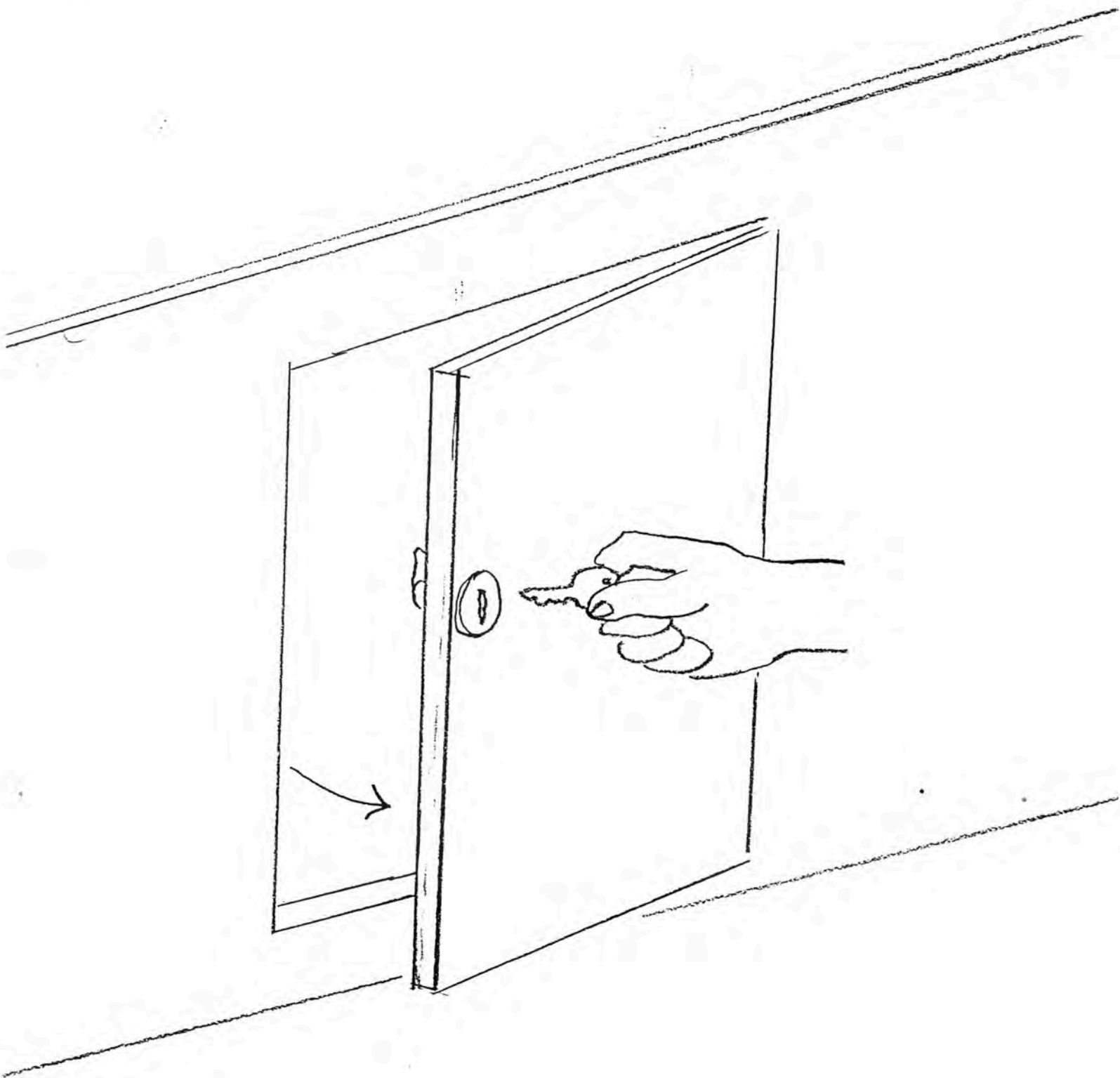


EXHIBIT 13 / ACCESS DOORS

SEE DETAIL DRAWINGS 1/17 FOR LOCATIONS OF DOORS