

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703. Fax: (207) 874-8716

Permit No: 05-0943	Issue Date: PERMIT ISSUED JUL 21 2005	City: 2151 B002001
Owner Address: 2211 Congress St	Phone: 207-575-5200	
Contractor Address: 2211 Congress Street, Portland	Phone: 207-575-5200	
Permit Type: Additions - Commercial	Zone: OP	

Location of Construction: 2211 Congress St	Owner Name: Unum Corp
Business Name:	Contractor Name: Bob Adams
Lessee/Buyer's Name	Phone:

Past Use: parking lot of commercial property	Proposed Use: parking lot with three smoke shelters on commercial property
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Proposed Project Description:
build three aluminum and glass smoke shelters for parking lot of commercial property

Permit Fee: \$291.00	Cost of Work: \$30,000.00	CEO District: 3
FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <i>with conditions</i>	INSPECTION: Use Group: Type: <i>2C</i> <i>7/19/05</i>	
Signature: <i>Chad Chase</i>	Signature: <i>AW King</i>	
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)		
Action <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied		
Signature:		Date:

Permit Taken By: jharris	Date Applied For: 07/08/2005	Zoning Approval	
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- This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
- Building permits do not include plumbing, septic or electrical work.
- Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..

Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan <i>Site Plan given to extension planners</i> Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <i>7/10/05</i>
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Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date:

Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date:
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CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

BUILDING INSPECTION

PERMIT

Please Read Application And Notes, If Any, Attached

Permit Number 050043

PERMIT ISSUED
JUL 21 2005
CITY OF PORTLAND

This is to certify that Unum Corp/Bob Adams

has permission to build three aluminum and glass smoke stacks on parking lot commercial property

AT 2211 Congress St 215 B002001

provided that the person or persons who perform or supervise the work in accepting this permit shall comply with all of the provisions of the Statutes of the State of Oregon and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must be given and when permission procedure is complete this building or part thereof shall be opened or otherwise closed-in within 24 HOURS NO OTHERS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS

Fire Dept Capt. Greg Cross 7-19-05

Health Dept. _____

Appeal Board _____

Other _____
Department Name

[Signature]
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit

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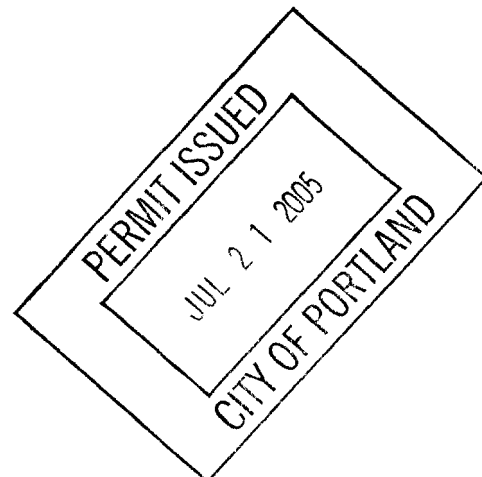
Permit No: 05-0943	Date Applied For: 07/08/2005	CBL: 215 B002001
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Location of Construction: 2211 Congress St	(Owner Name: Unum Corp	Owner Address: 2211 Congress St	Phone: () 575-5200
Business Name:	Contractor Name: Bob Adams	Contractor Address: 2211 Congress Street Portland	Phone (207) 575-5200
Lessee/Buyer's Name	Phone:	Permit Type: Additions - Commercial	

Proposed Use: parking lot with three smoke shelters on commercial property	Proposed Project Description: build three aluminum and glass smoke shelters for parking lot of commercial property
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Dept: Zoning	Status: Approved	Reviewer: Marge Schmuckal	Approval Date: 07/18/2005
Note:			Ok to Issue: <input checked="" type="checkbox"/>
Dept: Building	Status: Approved with Conditions	Reviewer: Mike Nugent	Approval Date: 07/19/2005
Note:			Ok to Issue: <input checked="" type="checkbox"/>
1) Must comply with local snow and wind loading as specified in Chapter 16 of the IBC 2003			
Dept: Fire	Status: Approved with Conditions	Reviewer: Cptn Greg Cass	Approval Date: 07/18/2005
Note:			Ok to Issue: <input checked="" type="checkbox"/>
1) Build to manufacturer's specifications			

Comments:
7/13/2005-jharris: Contractor listed is Plant operations mgr for Aramark Food Service Facility. Ok per Donna Martin.



Please call 874-8703 or 874-8693 to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the follow inspections and provide adequate notice. Notice must be called in 48 hours in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not fallowed as stated below.

A Pre-construction Meeting will take place upon receipt of your building permit,

- Footing/Building Location Inspection: Prior to pouring concrete
- Re-Bar Schedule Inspection: Prior to pouring concrete
- Foundation Inspection: Prior to placing ANY backfill
- Framing/Rough Plumbing/Electrical: Prior to any insulating or drywalling
- Final/Certificate of Occupancy: Prior to any occupancy of the structure or use. **NOTE:** There is a \$75.00 fee per inspection at this point.

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection

_____ If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

_____ CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR; BEFORE THE SPACE MAY BE OCCUPIED

[Signature]
Signature of Applicant/Designee

7/21/05
Date

[Signature]
Signature of Inspections Official

7/21/05
Date

CBL: 215-B-002

Building Permit #: 05-0943

All Purpose Building Permit Application

Property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: 2211 CONGRESS STREET UNUMPROVIDENT

Total Square Footage of Proposed Structure <u>220 x 3</u>		Square Footage of Lot	
Tax Assessor's Chart, Block & Lot Chart# <u>215</u> Block# <u>13</u> Lot# <u>002</u>		Owner: <u>UNUMPROVIDENT</u>	Telephone: <u>575-5200</u>
Lessee/Buyer's Name (if Applicable)		Applicant name, address & telephone: <u>BOB ADAMS FOR UPC</u> <u>2211 CONGRESS ST</u> <u>575 5155</u>	Cost Of Work: \$ <u>30,000</u> Fee: \$ <u>264.00</u>
Current use: <u>PARKING LOT</u>		DEPT. OF BUILDING INSPECTION CITY OF PORTLAND, ME JUL - 8 2005 RECEIVED	
if the location is currently vacant, what was prior use:			
Approximately how long has it been vacant:			
Proposed use: <u>ADD 3 SMOKE SHELTERS TO EXISTING</u>			
Project description: <u>PARKING AREAS,</u>			

Contractor's name, address & telephone:

Who should we contact when the permit is ready: BOB ADAMS (FOR UPC)

Mailing address: 2211 CONGRESS STREET
MAIL STOP 8070 PORTLAND, ME 04122

We will contact you by phone when the permit is ready. You must come in and pick up the permit and review the requirements before starting any work, with a Plan Reviewer. A stop work order will be issued and a \$100.00 fee if any work starts before the permit is picked up. PHONE: 575-5155

IF THE REQUIRED INFORMATION IS NOT INCLUDED IN THE SUBMISSIONS THE PERMIT WILL BE AUTOMATICALLY DENIED AT THE DISCRETION OF THE BUILDING/PLANNING DEPARTMENT, WE MAY REQUIRE ADDITIONAL INFORMATION IN ORDER TO APPROVE THIS PERMIT.

I hereby certify that I am the Owner or record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

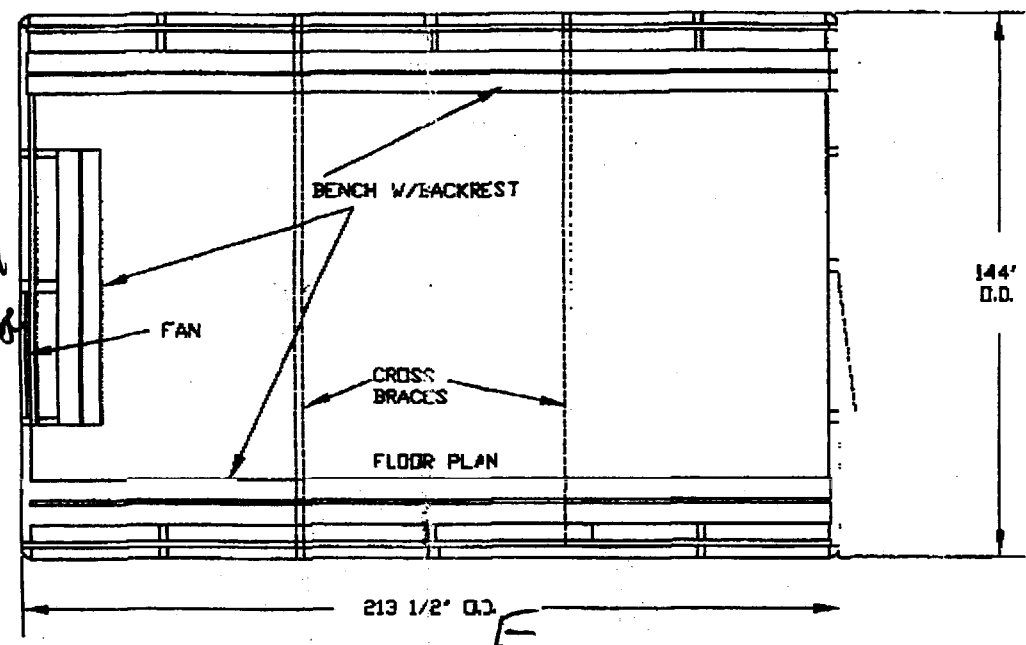
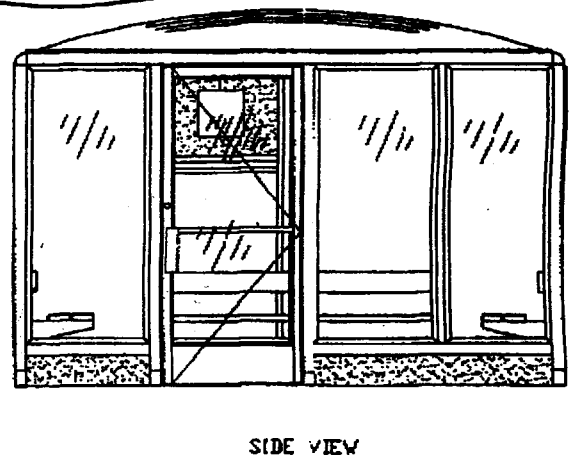
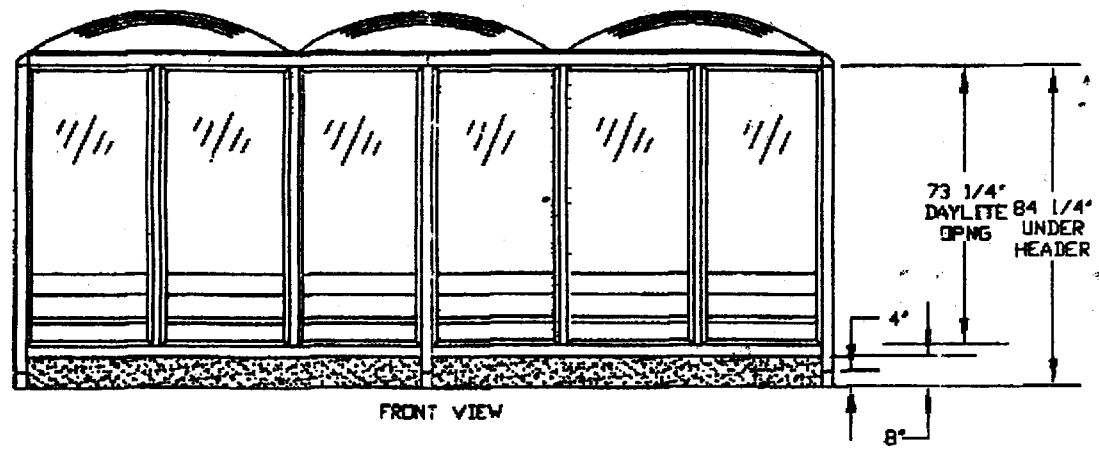
Signature of applicant: [Signature] Date: 7/7/05

This is NOT a permit, you may not commence ANY work until the permit is issued. If you are in a Historic District you may be subject to additional permitting and fees with the Planning Department on the 4th floor of City Hall

ICH

Skie Madese FYT

Sep 24 04 12:11p Brasco International, Inc (313) 393-0499



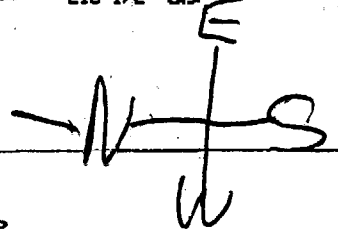
- SPECIFICATIONS:**
- BARK BRONZE ANODIZED ALUMINUM STRUCTURE
 - 1/4" BRONZE TEMPERED SAFETY GLASS
 - BRONZE DOME ROOF W/FASCIA/GUTTER SYSTEM
 - CULL LENGTH HARDWOOD (OAK) BENCH VIM BACKREST & PARTIAL LENGTH HARDWOOD (OAK) BENCH W/ BACKREST
 - 4' DUAL TUBE FLUORESCENT FIXTURE WITH PHOTOCELL (120 VOLT) (SUPPLY)
 - ONE 12" H.D. FAN (LOCATION AS SHOWN)
 - 36" COMMERCIAL ENTRANCE DOOR W/ CLOSURE AND 10" BOTTOM RAIL
 - BRONZE ANODIZED PERIMETER WIND SKIRT



THIS DRAWING IS PROPRIETARY AND FOR THE SOLE USE OF OUR CUSTOMERS AND MAY NOT BE REPRODUCED OR COPIED WITHOUT WRITTEN PERMISSION FROM BRASCO INTERNATIONAL.	BRASCO INTERNATIONAL INC. 1000 MT ELLIOTT DETROIT, MI 48207 1-800-843-3045 www.brasco.com		
	CUSTOMER UNUM PROVIDENT CORPORATION		
	PROJECT		
SMOOTHLINE SERIES	DRAWN BY F3Z	DATE 9-24-04	REV 9-24-04
SH 1218-4LSV	SCALE NONE	DATE 9-16-04	SHEET

Park
Garden

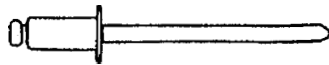
2+3 look
also



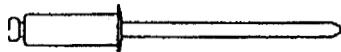
THE FOLLOWING TOOLS ARE REQUIRED FOR INSTALLATION

- Drill Motor w/ #11 and 1/4" Drill Bits
- Heavy Duty Drill Motor w/ 1/2" Masonry Drill Bit
- Steel Hammer
- Dead Blow Hammer
- Heavy Duty Pop Rivet Tool
- Bubble Level
- 7/16" and 3/4" Sockets w/ Wrench
- Caulk Gun

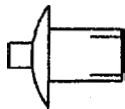
SUMMARY OF SHELTER FASTENERS PROVIDED



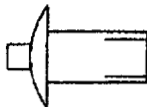
A 3/16" x 3/16" G.R. Aluminum Blind Rivet
Window Sash and Ground Windskirt
Attachment - PART # F-4029



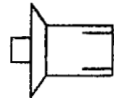
B 3/16" x 3/8" Stainless Steel Blind Rivet -
Bench and Backrest Bracket Attachment
Grillwork Attachment - PART # F-4066



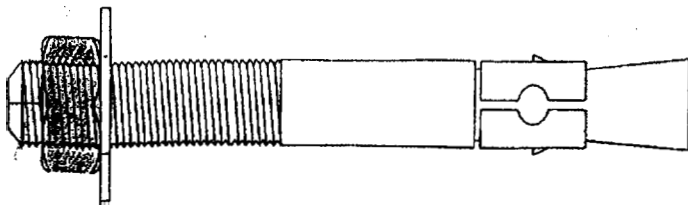
C 1/4" x 1/4" Dome Head Drive Rivet -
Roof Mobile Attachment - PART # F-4045



D 1/4" x 3/8" Dome Head Drive Rivet -
Anchor Boot Attachment - PART # F-4043

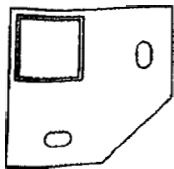


E 1/4" x 3/8" Counter Sunk Drive Rivet -
Frame Attachment - PART # F-4053

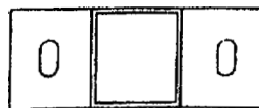


F 1/2" x 3 3/4" Stainless Steel Wedge Anchor
Bolt Ground Attachment - PART # F-4050

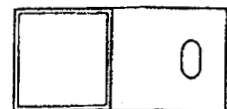
SHELTER ANCHOR BOOT STYLES:



CORNER BOOT
Part # B4642



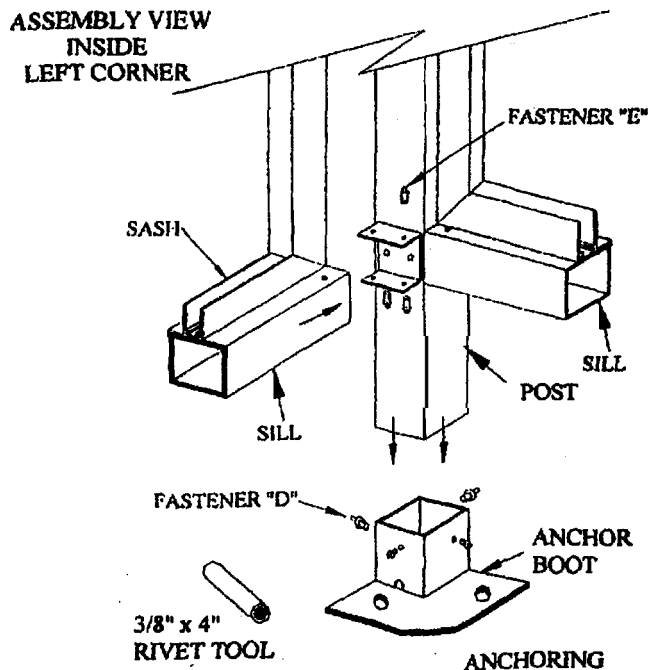
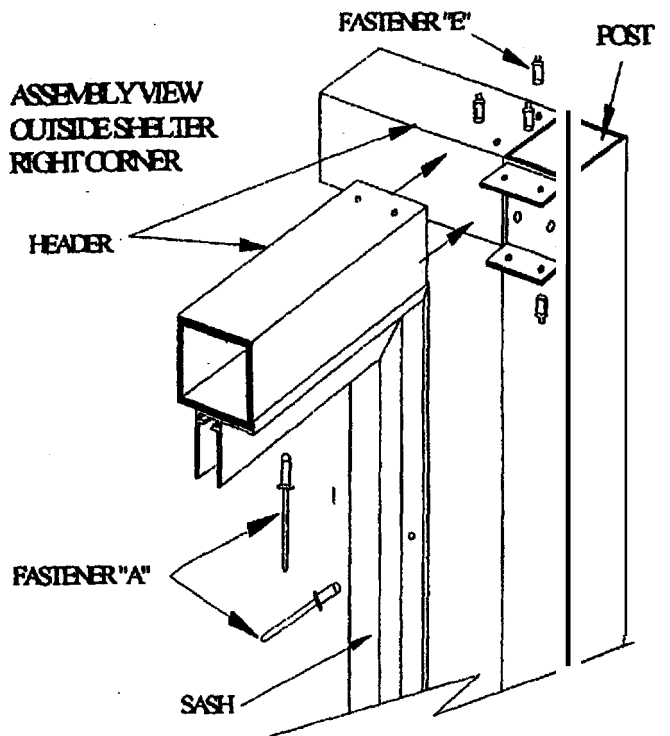
INTERMEDIATE BOOT
Part # B4630



DOORWAY BOOT
Part # B4643

W

EMBL Y



For proper orientation of the shelter, wall sections are viewed by standing in front of the shelter looking in. All wall sections are labeled for assembly.

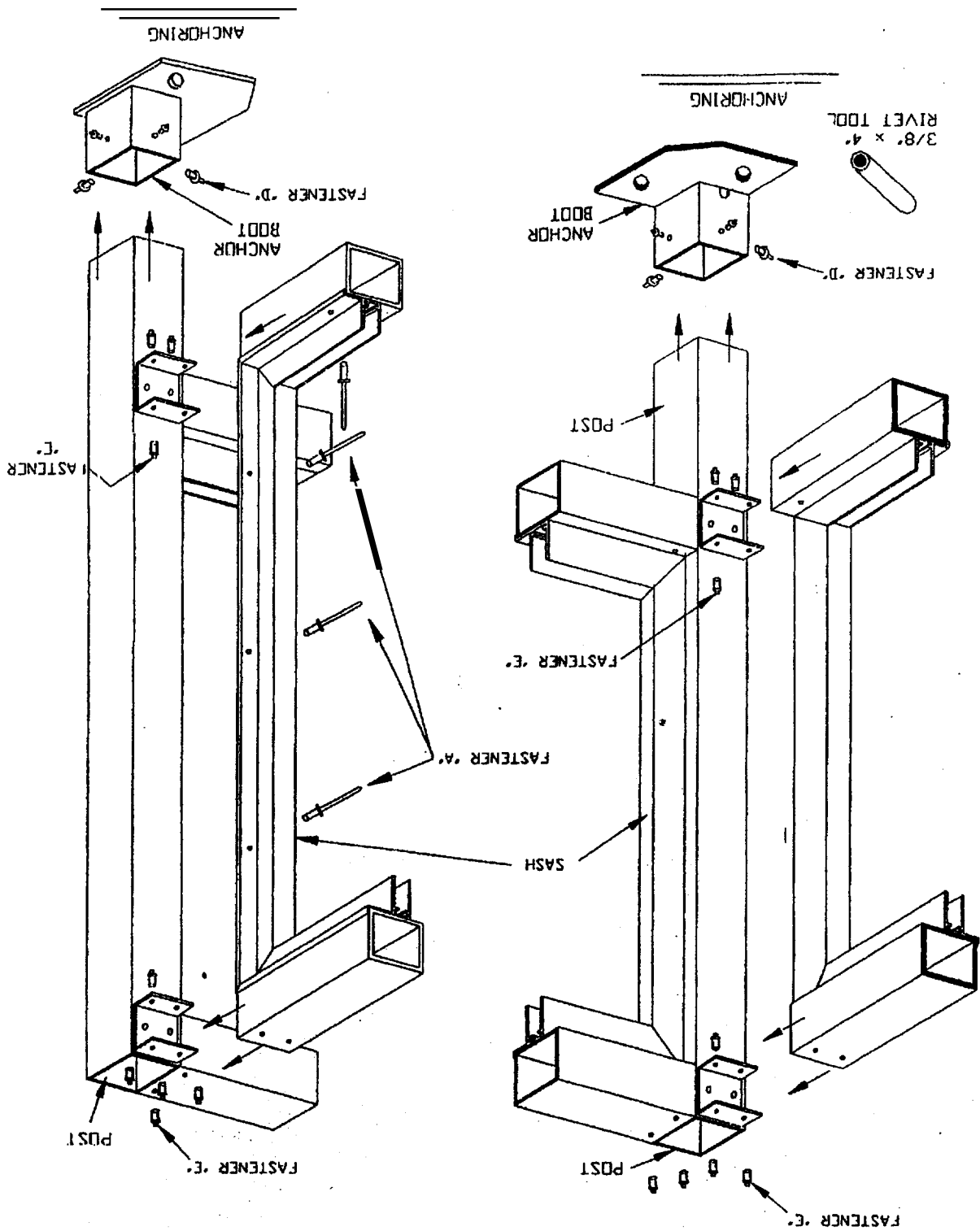
- Start with the left side wall and the left rear wall sections.
- Begin by setting vertical posts into anchor boots. Orient anchor boot so flanges of boot and eventual anchor bolts will align under the sill.
- Slide header and sill tubes onto corresponding structural clips. Fully engage wall sections until sash lip covers column edge.

These shelters are precision manufactured. Some tapping may be necessary to fully engage tubes over structural clips. Countersunk drive rivet holes will be at a slight offset to hold tube and clip in tension.

- Using tool provided, set rivets into predrilled holes. Secure connection with (3) 1/4" countersunk drive rivets at each clip.
- Repeat connection technique for all remaining back wall or side wall sections.
- Insert roof cross brace tube(s) over structural clip(s) on back wall header beam.
- Attach front header or optional front windscreen by spreading side wall sections until header tube engages over structural clip(s). Insert roof cross brace tube(s) over front structural clips. Secure with countersunk drive rivets.
- Where wall sections connect, use #11 drill bit (.191 dia) and drill through pilot holes in sash into corresponding tube.
- Secure sash to tube with 3/16" x 3/8" aluminum blind rivets.
- With wall sections assembled; square and plumb wall sections. Use 1" shims provided to pitch shelter drainage to the rear. Shims should be placed inside anchor boots to maintain sufficient pitch so water cannot pool. Final leveling can take place prior to anchoring shelter in place.

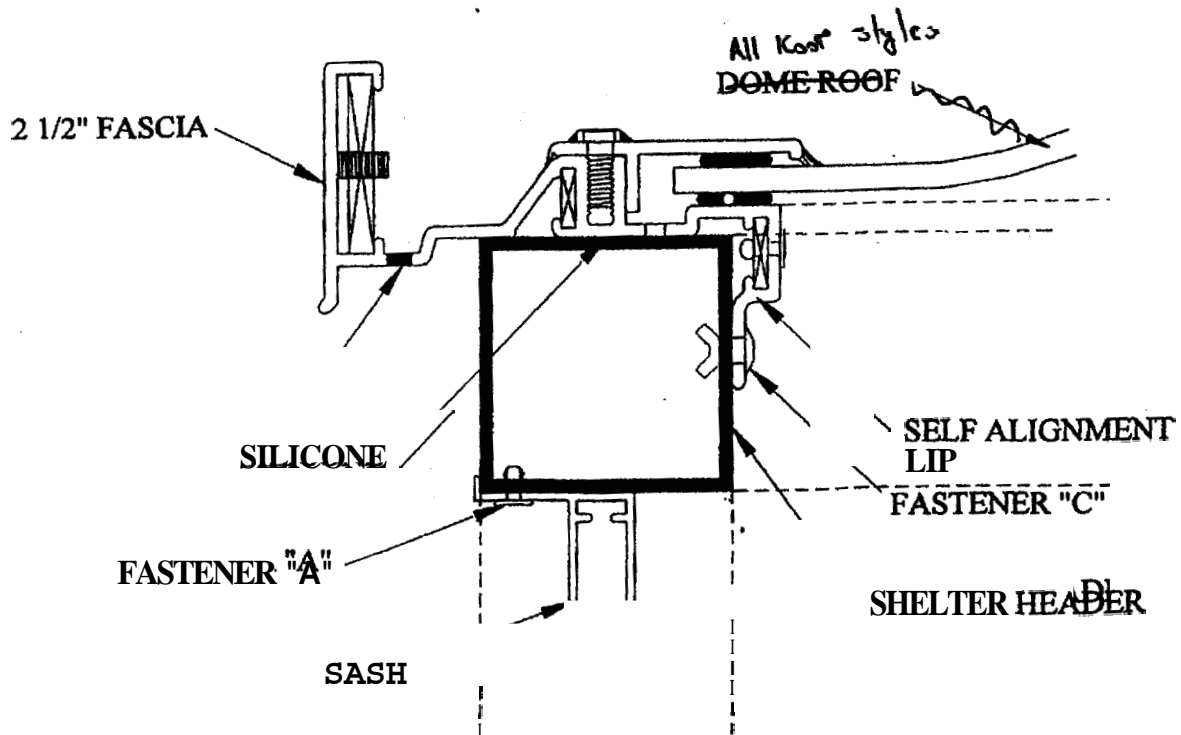
SHELTER WALL SECTION ASSEMBLY

ASSEMBLY VIEW INSIDE SHELTER - LEFT CORNER ASSEMBLY VIEW OUTSIDE SHELTER - RIGHT COR-



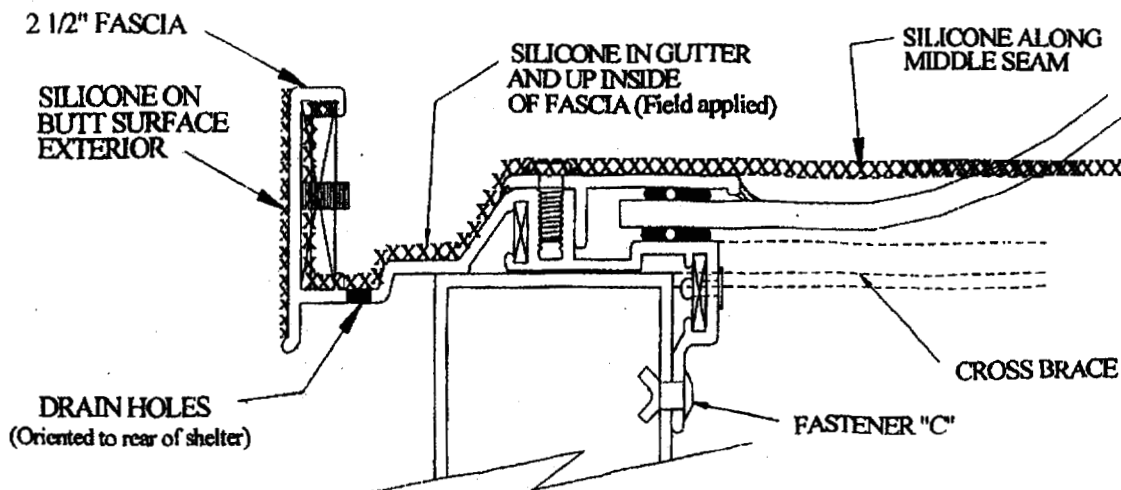
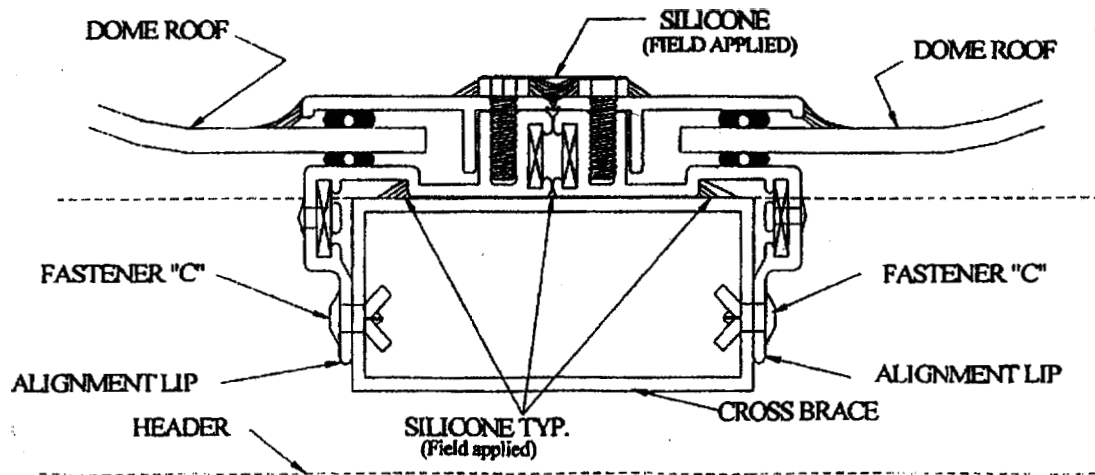
SINGLE ROOF MODULE INSTALLATION

- Be sure shelter frame is square and level
- Clean top of header beams around the entire perimeter of shelter.
- With drain holes located to the rear of the shelter, set roof module onto shelter wall sections.
- Be sure roof module is set completely into shelter frame. Pull down from outside if necessary and hold firm.
- From inside the shelter, using 1/4" drill bit, drill through pilot holes in the self alignment lip of the roof modules into shelter header beams.
- Secure entire perimeter with 1/4" x 1/4" dome head drive rivets. (Fastener "C")



MULTIPLE ROOF MODULE ASSEMBLY

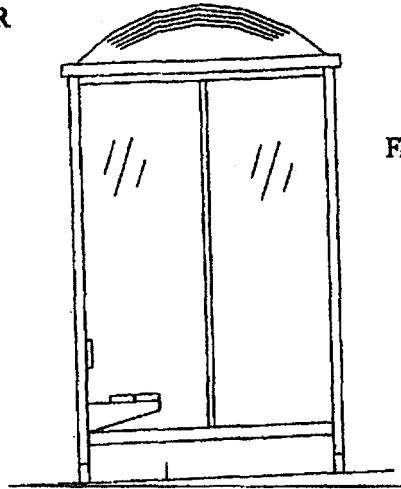
- Be sure shelter frame is **square** and level
- **Clean and completely dry** top of header beams and cross brace(s) **around** the entire perimeter of shelter.
- **From above, lay a generous bead of silicone** down the center of each shelter header. Lay **(2)** **two beads** across each roof cross brace(s), locate each bead **1" - 1 1/2"** from edge of **tube**. Extend bead to the top of the adjacent header beam.
- With drain holes located **to the rear** of the shelter, **set** roof module(s) onto shelter **wall** sections. **If multiple roof modules, set middle section first.**
- **From inside the shelter, using 1/4" drill bit, drill** through pilot holes in the self alignment lip of the roof modules into shelter header beams **and/or** cross braces.
- **Secure** entire perimeter with 1/4" x 1/4" dome head drive **rivets**. (Fastener "C")
- **From the top of the shelter, lay a generous bead of silicone** along the **seam** created between the roof modules. **Tool** silicone into place, forming a smooth **surface**. Continue silicone bead into gutter area and up the inside of the fascia gutter area. Make sure silicone bead extends to the top of the inside fascic lip.
- **Tool silicone smooth** to create a **flush** surface



FINAL LEVELING / ANCHORING SHELTER

ORIENT ROOF MODULE
DRAIN HOLES
TO REAR

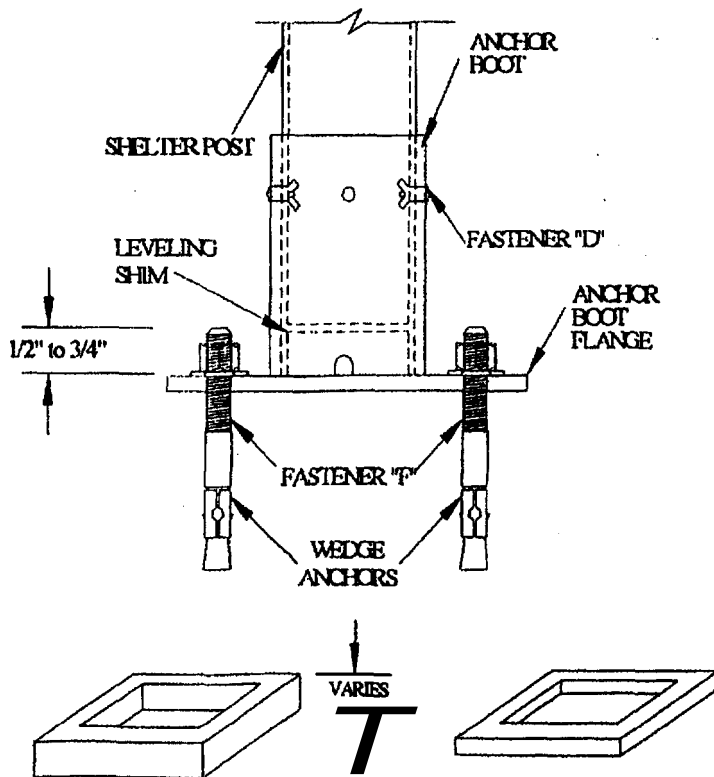
REAR



FRONT

SIDE VIEW

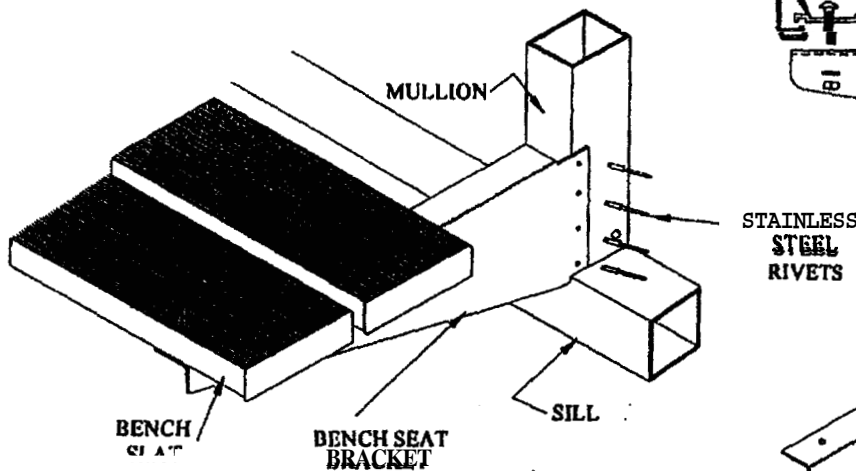
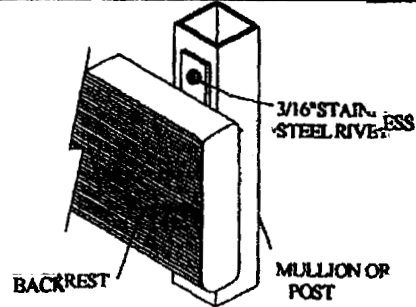
PITCH
1/4" PER FT.



LEVELING SHIMS

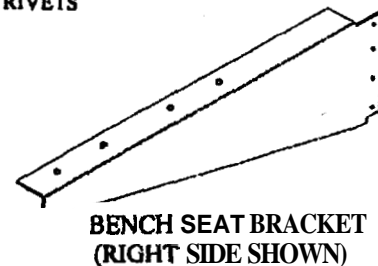
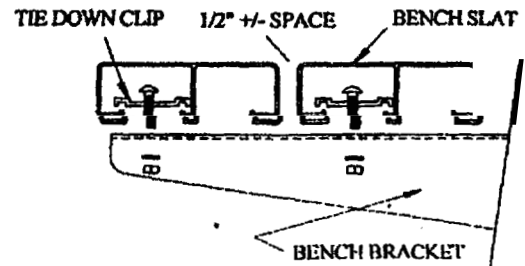
- With the shelter in the proper location, square and plumb wall sections. **This can be done using a bubble level and the 3-4-5 squaring formula (from a corner, measure and mark 3' along the side wall, measure and mark 4' along the back wall. The distance between the marks (forming a triangle) needs to be 5'. Adjust accordingly.**
- **Using a bubble level and leveling shims provided in the hardware kit, pitch shelter to the rear for drainage. Sufficient pitch should be maintained not to pool water in the roof module.**
- Mark concrete **through holes** in anchor boot flanges.
- Move shelter over allowing ample room to drill holes in concrete. **Using a 1/2" masonry bit, drill a 3" - 3 1/2" deep hole.**
- Relocate shelter over drilled holes.
- **Set wedge anchors (Fastener "F")** into holes leaving 1/2" to 3/4" exposed thread above **surface of anchor boot flange**. Apply flat washer, lock washer, and nut onto bolt. Tighten securely.
- Drill through pilot holes in anchor boot into shelter leg (1/4" bit). Secure each anchor boot with (4) 1/4" x 3/8" dome head drive rivets. (Fastener "D")

ALUMINUM BENCH INSTALLATION



Tools Required

- Drill Motor
- #11 Drill Bit (.191)
- Heavy Duty Rivet Tool
- Bubble Level
- 1/2" Socket w/ Wrench



ALUMINUM BENCH INSTALLATION

Begin by laying out the bench brackets in your shelter.

Typical bench installation is the entire back wall of your shelter, for *ADA* consideration, some shelters will only have a partial length bench and backrest. The end brackets attach to the corner columns with the top support flange facing away from the adjacent glass. The intermediate brackets align to the right of the vertical mullions with the top support flange aligning directly in front of the vertical mullion.

Starting in the corner locate bottom alignment notch on sill with bracket firmly against column. Drill (4) #11 holes (.191 dia.) through bracket pilot holes into vertical column. Apply (4) 3/16" x 3/8" stainless steel pop rivets. (**FASTENER "B"**) (**DONOT SUBSTITUTE**)

Locate the next bench bracket on the right hand side of the next vertical mullion Repeat above directions to attach. Locate bench slats onto brackets (as shown above)

Place bench tie down clip over alignment leg of bench slat. Insert 5/16" carriage bolt down through tie down clip into bench bracket. Repeat for each bracket. Once all tie down clips are attached and hand tightened, make adjustments to planks to insure proper alignment. Tighten securely once aligned.

Locate backrest slat against wall with attachment straps aligning with vertical mullions. Top of backrest slat should be 16" above top of bench slats.

Brasco International, Inc
1000 Mt Elliott
Detroit, MI 48207
800-893-3665 pt
313-393-0499 fax

facsimile transmittal

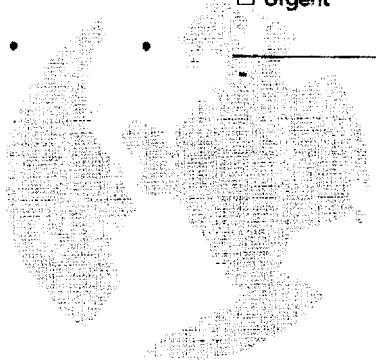
To: Mr. Mike Nugent @ City of Portland Fax: 207-756-8080

From: Kevin Chown @ Brasco International, Inc Date: 7/19/2005

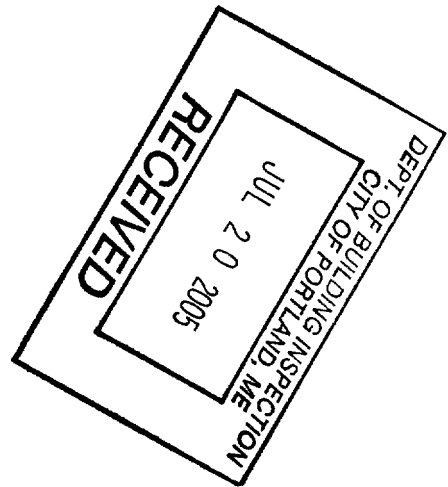
Re: Shelter Specifications - Unum Provident Pages: 4

File

Urgent For Review Please Comment Please Reply Please Recycle



050943
2/5/82



.....

Brasco International, Inc.

1000 Mt. Elliott

Detroit, MI 48207

(313) 393-0393 Phone (313) 393-0499 Fax

(800) 893-3665

SMOOTHLINE SERIES SPECIFICATION

PART I - GENERAL

Shelter(s) shall be MODEL SM1218-4LSW as manufactured by Brasco International, Inc.

1.1 DESCRIPTION

The work specified shall consist of the design, fabrication, and delivery of Smoking Shelters to include structural aluminum frame with glazed rear, side, and front wall modules, glazed roof assembly, and all required hardware for installation.

Shelters shall be computer designed and structurally engineered. The shelter frame shall be designed to be stable with or without wall and roof glazing. All connections and glazing containment shall be tamper proof. Shelters shall be prefabricated in 4 or more modular sections complete and ready for field erection.

1.2 STANDARDS

A. Materials

All aluminum shall conform to the standards of the Aluminum Association.

All glazing shall conform to the American National Standards Institute (ANSI) Safety Standard for Architectural Glazing Materials Z97.1-1975.

B. Performance

Shelter shall be designed to withstand minimum vertical and horizontal wind load of 20 PSF (90 MPH). Roof shall be designed to withstand minimum dead load of 45 PSF.

1.3 QUALITY ASSURANCE

A. Experience

Manufacturer shall have a minimum of 10 years experience in the design and manufacture of Smoking Shelters.

B. Approved equals

Requests for approved equals shall be supported by complete technical documentation which shall include descriptive literature, assembly instructions, and detail drawings which clearly show dimensions, joining details, alloy, temper, finish, and thickness of all members. Detailed specifications shall also accompany such request.

1.4 SUBMITTALS

A. Submit shop drawings and product data.

B. Submit manufacturer's statement of certification that materials meet or exceed these specifications.

C. Submit finish sample (optional).

D. Submit wall and roof glazing sample(s) (optional).

1.5 DELIVERY AND STORAGE

Shelter shall be delivered to destination in clearly labeled modular assemblies. Each shelter shall include a boxed hardware kit complete with installation instructions.

1.6 WARRANTY

Manufacturer warrants that shelter shall be free from defect in parts and manufacture for a period of one year.

Manufacturer shall maintain inventory of replacement parts for ten years after delivery of shelter.

PART II - PRODUCTS

Shelter size shall be approximately: 12' deep by 18' wide by 7'6" high

2.1 CONSTRUCTION

Shelter shall be constructed of modular interchangeable components. All structural framing members and mullions shall be 1 (one) piece seamless extruded aluminum tubes of 6063-T5 alloy. SNAP TOGETHER, OR 2 (TWO) PIECE MEMBERS ARE NOT ACCEPTABLE.

All roof and glazing frame extruded aluminum sections shall be 6063-T5 alloy.

All structural connector channels, roof corner key angles, and base anchor boots shall be extruded aluminum sections of 6061-T5 alloy.

2.2 MATERIALS

A. Framing members

All vertical support posts and top and roof perimeter frame shall be 3" quarter round x 1/8" thick tube.

All horizontal sill and header members shall be 3" x 3" x 1/8" thick square tube.

All mullions shall be 2" x 3" x 1/8" thick rectangular tube.

B. Structural connections

All structural connector clips shall be factory applied and shall be concealed when field assembly is complete.

FIELD ATTACHMENT OF CONNECTOR CLIPS IS NOT ACCEPTABLE.

Connector clips shall be extruded aluminum as specified in Section 2.1 and shall be 2 3/4" x 2 3/4" x 1/4" thick or 1 3/4" x 2 3/4" x 1/4" thick with tapered edges. Connector clips shall be attached to frame at main structural joints with 2 (two) stainless steel hex bolts 1/4" - 20 x 3/4" with flat washers, lock washers, and nuts. Mullion clips shall be attached to frame with 2 (two) 1/4" dia. stainless steel flush break rivets. Roof perimeter members shall be joined to cast aluminum corners with 4 (four) 10-24 x 1/2" S.S. flat head socket screws.

C. Field connections

All field connections to join modular wall sections shall be concealed with shelter complete and upright. Connection to structural clips shall be with 2 (two) 1/4" countersunk aluminum and stainless steel drive rivets. Finished joint shall be flush. Roof perimeter frame shall be attached to vertical columns with 4 (four) 10-24 x 1/2" S.S. flat head socket screws.

D. Fasteners

All fasteners shall be aluminum or stainless steel or a combination thereof and shall be tamper proof. Zinc, carbon steel, plated, or any other "non-corrosive" fasteners will not be acceptable. Exposed fasteners shall be finished to match shelter finish.

E. Window framing

Window frames shall be special "F" shaped aluminum extrusion with integral alignment tip and corner key slot. All corners shall be mitered and reinforced with internal corner keys. Window frames shall be affixed to shelter frame with 3/16" dia. aluminum flush break rivets approximately 13" on center. NO WINDOW FRAMES SHALL BE SHIPPED LOOSE OR UNATTACHED TO A WALL MODULE. Window frame shall provide minimum 3/4" engagement of glazing material on all sides. Attachment shall be from exterior of shelter for maximum replacement accessibility.

F. Glazing

All glazing material shall be 1/4" thick bronze tint tempered safety glass.

All wall glazing shall be gasketed with continuous extruded PVC dry-set splines.

G. Roof Assembly**1. Fascia/Perimeter Frame Module**

Roof assembly module **perimeter frame** shall be 1 (one) piece **extruded aluminum with mitered corner**, a 3/4" **exterior reveal gutter**, integral **corner key slot** integral screw **boss** to **secure glazing infill** to roof frame, and integral **self-alignment attachment lip**. **Mitered corners shall be connected with a** concealed aluminum corner **key fastened with 4** (four) **flush break rivets at each corner**. The completed **roof assembly shall be attached** to roof perimeter **frame** through self-alignment **lip** with **aluminum and stainless steel tamper proof fasteners in shear**. **SELF-DRILLING OR SELF-TAPPING FASTENERS INTENSION (OR PULL OUT CONDITION) SHALL NOT BE AN ACCEPTABLE METHOD OF SECURING ROOF ASSEMBLY TO FRAME.**

2. Dome

The standard roof glazing material shall be 1/4" thermoformed **acrylic dome(s)**. Color shall be bronze **transparent**. Dome shall be set on continuous pre-formed **sealant** of 100% solids, polyisobutylene-butyl, and shall be **contained by an anodized aluminum pressure bar with positive engagement and sealed with a cap bead of silicone.**

Pressure bar shall be **completely factory sealed with premium grade silicone sealant (Dow Corning Trademate® or equal)**. Finished roof **assembly shall be leak proof**. Pressure bar shall be through-bolted with stainless steel bolts with **minimum 8 (eight) thread engagement into integral screw port** in perimeter frame **extrusion**. Dome shall be **serviceable without removing roof. Drainage shall be directed to rear of shelter.**

ROOF DOME SHALL NOT RELY ON SELF-TAPPING OR SELF-DRILLING SCREWS IN TENSION FOR CONTAINMENT.

H. Finishes

All exposed **aluminum components including brackets and anchor boors** shall be anodized Architectural **Class I** finish in conformance with "The **Aluminum Association Designation System for Aluminum Finishes**" as designated. **Bronze Anodized: AA-M10C22A42/44**

1. Base Connections

Base connections shall be adjustable to varying **site conditions**. External **anchor shoes shall be used and shall be finished to match shelter**. **Anchor shoes shall be secured to concrete with 2 (two) 1/2" dia. stainless steel wedge anchor assemblies. Anchor shoes shall contain internal drainage weep hole to prevent condensation build-up**

J. Bench

Oak Bench with Backrest

K. Notes

- **36" Commercial Entrance Door with closure and 10" sill for ADA compliance.**
- **2" HD Fan with louvers and wire guard**
- **4', dual tube fluorescent with photocell**
- **Perimeter Windskirt – removable in summer for added ventilation**