



SECTION A-A
SCALE 1 / 5

NOTES

1. Use riveted copper pipe straps to hold pipe to heat sink. Apply Devcon metal-filled epoxy or putty along edge of interface between pipe and aluminum sheet.
2. Aluminum tubes, miter braces, and outer sheet are to be fastened together using rivets.
3. Use Liquid Nails construction adhesive to cement all metal sheets and styrofoam together.
4. Use contact adhesive to cement formica to Styrofoam, or Liquid Nails if necessary.
5. Dry fit all parts before using adhesive.
6. Rivets and pipe straps not shown

16	4	Insulation Frame Miter Brace	PFS03029					
15	1	Insulation Roof Water Jacket	PFS03026					
14	1	Insulation Floor/Roof 3" Foam	PFS03022	7	5	Formica, black	-	
13	1	Insulation Floor/Roof 4" Foam	PFS03019	6	1	Styrofoam 3/4" Layer	-	
12	2	Insulation Frame Horizontal Short	PFS03017	5	1	Liquid Nails construction adhesive	-	
11	2	Insulation Frame Horizontal Long - Roof	PFS03016	4	1	Devcon metal-filled epoxy #19770	-	
10	4	Insulation Vertical Post Coupling	PFS03013	3	50	Copper pipe strap MSC# 36892123	-	
9	1	Insulation Roof Heat Sink	PFS03004	2	80	Aluminum blind rivet, 1/8", 5/16" grip	-	
8	1	Insulation Roof Outer Sheet	PFS03003	1	100	Aluminum blind rivet, 1/8", 3/16" grip	-	
ITEM	QTY	DESCRIPTION	PART NUMBER	ITEM	QTY	DESCRIPTION	PART NUMBER	
Bill of Material				Bill of Material				

THE OBSERVATORIES OF THE CARNEGIE INSTITUTION OF WASHINGTON 813 Santa Barbara Street Pasadena, CA 91101			
MATERIAL		UNLESS OTHERWISE SPECIFIED FRACTIONAL DECIMAL ANGULAR +/- 1/32 .XX +/- 0.01 +/- 0.1 DEG .XXX +/- 0.002 GOAL .XXX +/- 0.005 REQD BREAK SHARP EDGES MACHINED SURFACES 125 ✓ ALL DIMENSIONS IN INCHES	
EST WEIGHT		182 lb	
SCALE		1:12	
DWN		CRANE	
APVD		10/5/2007	
BY		DATE	
SHEET		DRAWING NUMBER	
B		PFS00027	
SHT 1		REV	
OF 1			

**P lanet
F nder
S pectrograph**

**Insulation Roof
Assembly**