



SECTION A-A
SCALE 0.17 : 1

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. Use Liquid Nails construction adhesive to cement all metal sheets and styrofoam together.
3. Use contact adhesive to cement formica to Styrofoam, or Liquid Nails if necessary.
4. Dry fit all parts before using adhesive.
5. Rivets and pipe straps not shown

ITEM	QTY	DESCRIPTION	PART NUMBER	ITEM	QTY	DESCRIPTION	PART NUMBER
11	1	Insulation Side Water Jacket	PFS03027				
10	1	Insulation Side 3" Foam	PFS03023	5	50	Copper pipe strap MSC# 36892123	-
9	1	Insulation Side 4" Foam	PFS03020	4	1	Liquid Nails construction adhesive	-
8	1	Insulation Side 1 Heat Sink	PFS03006	3	1	Devcon metal-filled epoxy #19770	-
7	1	Insulation Side 1 Outer Sheet	PFS03005			Formica, black	-
6	100	Aluminum blind rivets, 1/8", 3/16" grip	-	1	1	Styrofoam 3/4" Layer	-
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		
167 lb		
SCALE		
1:14		
DWN	CRANE	10/5/2007
APVD	BY	DATE
SHEET	DRAWING NUMBER	SHT 1 OF 1
B	PFS00028	REV

**P lanet
F nder
S pectrograph**

**Insulation Side 1
Assembly**