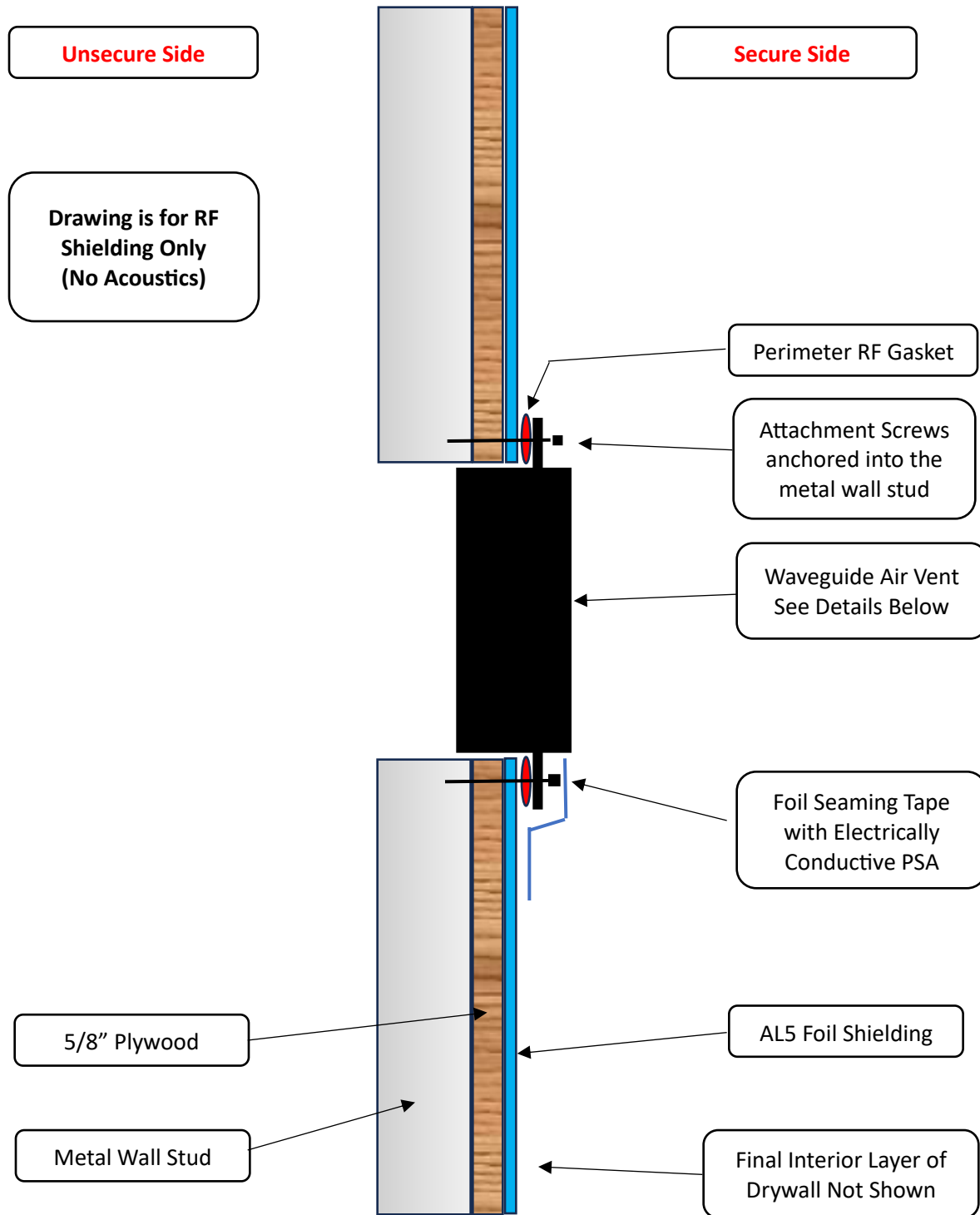


Installing Universal Shielding Series 1300 (Flange Mount) Waveguide Air Vents



Detail Drawing of Air Vent Above (Mirror Image)

ITEM :	1300 SERIES R.F. AIR VENT
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EXISTING ENCLOSURE
 R.F. GASKET {B/O}
 DIELECTRIC CANVAS COLLAR {B/O}
 3/16" CELL x 1" DEEP HONEYCOMB
 11 GAUGE ELECTRO-ZINC PLATED FRAME
 EXISTING DUCTWORK
 16 GA. {.059} COLLAR FOR CONNECTION OF DUCT
 WITHOUT COLLAR MINIMUM 1 1/4" WIDE
 W/ COLLAR MINIMUM 1 3/4" WIDE

O.D. DIMENSIONS

ITEM	QTY.	A	B	C	D	E	F	G	HONEYCOMB SIZE
-	-	-	-	-	-	1"	1 1/4"	-	X
-	-	-	-	-	-	-	-	-	X
-	-	-	-	-	-	-	-	-	X
-	-	-	-	-	-	-	-	-	X
-	-	-	-	-	-	-	-	-	X
-	-	-	-	-	-	-	-	-	X

APPROVED BY: _____ -

DATE: _____ -

NOTE: ALL DIMENSIONS IN INCHES

SHEET 1 OF 2

UNIVERSAL SHIELDING CORP. 20w. JEFRYN BOULEVARD DEER PARK, N.Y. 11729 PHONE (631) 667-7900 FAX (631) 667-7912 E-MAIL: USC4SHIELD@AOL.COM (WEB SITE WWW.UNIVERSALSHIELDING.COM)	
AIR VENT SCHEDULE	
SCALE: 6"=1'-0"	DRAWN BY: ALFONSO N.
DATE: 02-07-2020	AIRVENT TYPE: USC-1300C

RELEASE TO SHOP: _____ -

Installing the Universal Series 1300 (Flange Type with Duct Mounting Collars on Both Sides) Waveguide Air Vent

Make sure metal wall studs are tied to earth, building or electrical ground. Verify this with an ohmmeter.

Plywood is installed to the metal wall studs around the area where the air vent will be installed. Foil RF shielding has been installed and seam taped, on the plywood, on all sides of the air vent opening.

We recommend predrilling the mounting holes in the air vent flange.

Apply perimeter RF gasket to the air vent flange (side facing the foil), making sure the mounting holes are in the middle of the RF gasket. Hold the RF gasket in place with aluminum or copper foil tape strips with electrically conductive PSA or electrically conductive RTV. Overlap the RF gaskets at the corners.

Electrically conductive RTV, like Xalon FS, can be substituted for the RF gasket.

Install (screw, bolt, or weld) any HVAC ducting extensions required (with or without manbars) at this time.

Insert air vent (with duct extensions) in to the opening.

Using clear zinc coated steel, drill point screws, install the screws so they are anchored in to the metal wall studs.

Using the same foil seaming tape with electrically conductive adhesive (ECPSA), you used on the wall foil, tape from corner of the air vent, across the screw heads and on to the wall foil. Follow the manufacturer's recommendations on installing the foil tape.

RF shielding wise, the air vent is completed.

Install any acoustic, STC or sound treatment as required, this may need to be installed, before the air vent is installed.

Install dielectric collar(s) as required.

Install inspection hatches as required.

Install final layer of drywall and interior finish.

Electrically Conductive RTV

Xalon FS: https://www.ramayes.com/Foil_RF_Shielding_Adhesives_Primer_Sealers.htm#Xalon-FS

Electrically Conductive PSA Foil Tape

US Foils ECPSA Copper or Aluminum Foil Tape: https://www.ramayes.com/RF_Shielding_Tape.htm

RF Gasket (Wire Mesh Bumbbell):

