

# Submittal For Single Wall PVC Coated Galvanized Spiral With Non-Gasketed Fittings

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# HRANEC CORP.



# SUBMITTAL Single Wall Spiral

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#### **SPECIAL NOTES:**

- **SUBMITTAL** = INCLUDES ALL AVAILABLE CONNECTIONS AND PRESSURE CLASSES REFERENCE OUR FABRICATION FORM FOR PROJECT SPECIFIC DUCTWORK INFORMATION. LISTED AS PAGE 1
- FABRICATION = ALL DUCTWORK IS FABRICATED PER SMACNA STANDARDS AND / PROJECT SPECIFICATIONS
- ◆CAUTION = IF A STEEL CABLE HANGING SYSTEM IS USED TO SUSPEND DUCT WORK, DO NOT APPLY PAINT, LUBRICANTS, OR OTHER COATINGS TO THE HANGING SYSTEM. FOLLOW HANING SYSTEM MANUFACTURERS INSTRUCTIONS
- ●TESTING = OUR SPIRAL DUCTWORK HAS BEEN EXTENSIVELY AIR TESTED FOR LOW, MEDIUM, & HIGH PRESSURES.
- •**SEAMS** = LONGITUDINAL SEAMS ARE ALL BUTTON LOCK ON FITTINGS.
- ●GAUGES = METAL GAUGES ARE PRESSURE CLASS DRIVEN FROM LATEST SMACNA STANDARDS
- ●SEALANT = PROPER SEALING OF ALL COMPONENTS ESSPECIALLY CONNECTIONS. IS REQUIRED TO AVOID DARK AIR STREAKS AFTER INSTALLATION.
- ●MATERIAL = PVC COATED GLAVANIZED G90, SEE MATERIAL AND PRESSURE CLASS SHEET FOR MORE INFOMATION
- ●WATER PROOF = SPIRAL SEAM DUCT WORK IS NOT CONSTRUCTED TO BE WATER PROOF



#### MATERIAL AND PRESSURE CLASSES

#### PVC COATED MATERIAL IS GALVANIZED G90 STEEL WITH A 4X4 MIL PVC COATING

• POLYVINYL COATING IS .15-.25 BASE PRIMER BONDED TO BOTH SIDES AND 3.5-4.5 MILS PLASTISOL (POLYVINYL) HEAT FUSED TO BOTH SIDES

#### **POSITIVE PRESSURE**

#### HRANEC PVC COATED GALVANIZED

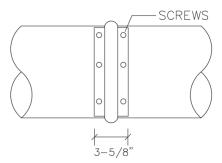
2005 SMACNA +10WG -6WG				HRANEC PIPE		HRANEC FITTINGS	
	Diameter	Fittings	Spiral	Size	Gauge	Size	Gauge
	3-9	28	28	4"-18"	26	5"-20"	24
	9-14	28	28	20-28	24	22-36	22
	15-18	26	26	30-38	22	38-50	20
	19-24	24	26	40-48	20	52-60	18
	25-42	22	24	50-58	18	62-70	16
	43-60	20	22	60-70	16		
	61-66	18	22				
	67-96	18	20				

- ALL GAUGE AND DIAMETER PIPE WILL BE SPIRAL SEAM
- ALL FITTINGS 24 GAUGE TO 20 GAUGE TO HAVE GORELOCK TRANSVERSE SEAM
- ALL FITTINGS 24 GAUGE TO 20 GAUGE TO HAVE BUTTON LOCKED LONGITUDINAL SEAM
- ALL STEEL FITTINGS 18 GAUGE TO 16 GAUGE TO HAVE TACK WELDED AND SEALED TRANSVERSE SEAM
- ALL STEEL FITTINGS 18 GAUGE TO 16 GAUGE TO HAVE TACK WELDED AND SEALED LONGITUDINAL SEAM

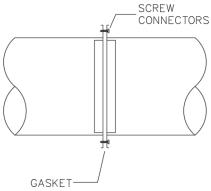


#### **CONNECTIONS AVAILABLE FOR ROUND DUCT AND FITTINGS**

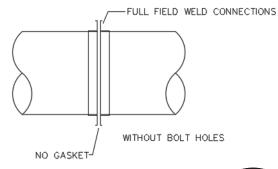
1. <u>SLIP FIT</u> = RECOMMENDED INSTALLATION = COUPLING CONNECTIONS TO BE CAULKED AND SCREWED EVERY 10" AROUND THE DIAMETER

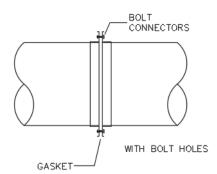


2. <u>SINGLE - WALL FLANGE</u> = RECOMMENDED INSTALLATION = FLANGED CONNECTION TO BE GASKETED OR CAULKED AND SCREWED EVERY 10" AROUND THE DIAMETER



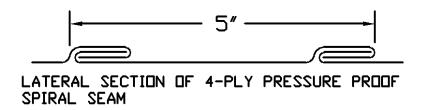
3. ANGLE RING WITH OR WITHOUT BOLT HOLES= RECOMMENDED INSTALLATION= ANGLE RINGS WITHOUT BOLT HOLES TO HAVE FIELD FULLY WELDED CONNECTIONS WITH NO GASKET, ANGLE RINGS WITH BOLT HOLES TO BE GASKETED THEN NUT AND BOLTED USING THE BOLT HOLE PATTERN WITHOUT SKIPPING ANY HOLES. REFERENCE SMACNA FOR FULL INSTALLATION GUIDLINES

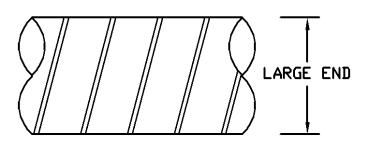






#### **SPIRAL DUCT**



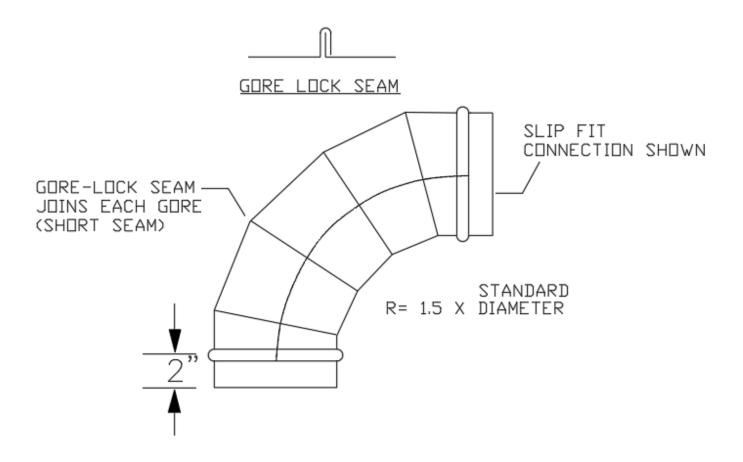


### **NOTES:**

- A. AVAILABLE IN EVEN SIZES 4"Ø THROUGH 70" Ø
- B. AVAILABLE IN ODD SIZES 5"Ø, 7", & 9"Ø
- C. LENGTHS 6" THROUGH 240" (STANDARD 120")



#### **GORE-LOCK ELBOW**



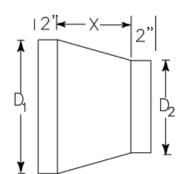
- AVAILABLE IN 5° THROUGH 120°
- SHORT RADIUS ELBOWS ARE CONSIDERED 1 X DIAMETER AND IS CENTERLINE
- OTHER RADIUS ELBOWS ARE AVAILABLE



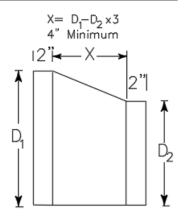
### **REDUCERS**

#### CONCENTRIC REDUCER

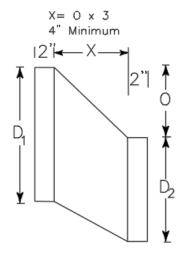
 $X = D_1 - D_2 / 2 \times 3$ 4" Minimum



### ECCENTRIC REDUCER

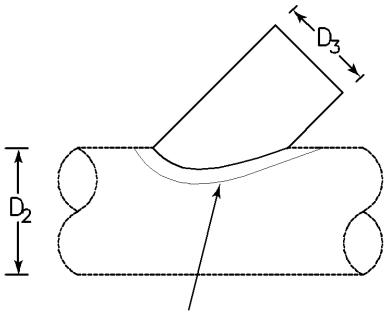


#### OFFSETTING REDUCER



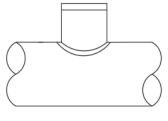


#### **ROUND END SADDLE TAPS**

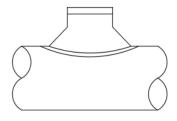


4"-16"= 1/2" FLANGE □UT 18" AND AB□VE= 2" PLATE WITH 1/2" HEM IN

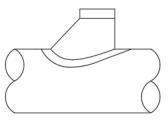
- STANDARD 45 DEGREE&90 DEGREE ANGLES. ALTERNATE ANGLES AVAILABLE.
- 90 DEGREE CONICAL AVAILABLE.
- HIGH EFFICIENCY SHOE STYLE AVAILABLE







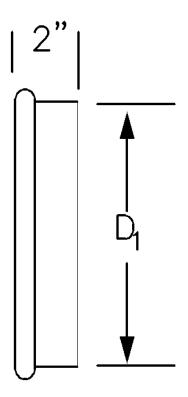
CONICAL SADDLE



SHOE STYLE SADDLE

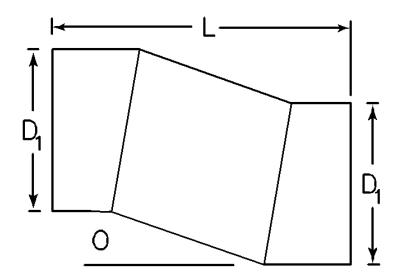


## **END CAPS**





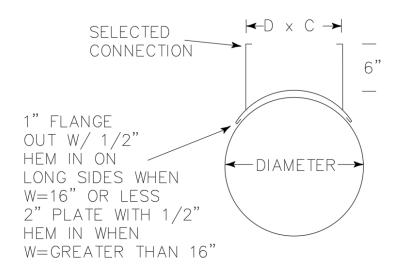
## **OFFSETS**

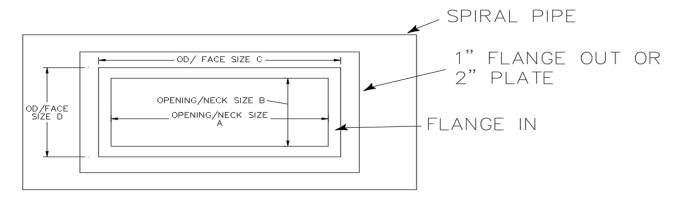


. LENGTH TWO OR THREE TIMES THE OFFSET



#### RECTANGULAR END SADDLE TAPS



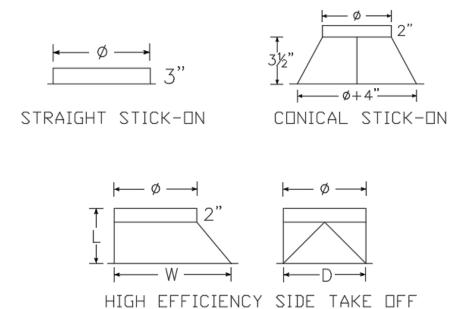


REGISTER BOX SQUARE END SADDLE

- SPOT WELDED SEAMS USED ON BOXES
- STANDARD RECTANGULAR CONNECTION IS FLANGE IN
- ALTERNATE CONNECTIONS AVAILABLE: SLIP AND DRIVE, TDC, OR PREMANUFACTURED FLANGE FOR RECTANGULAR END



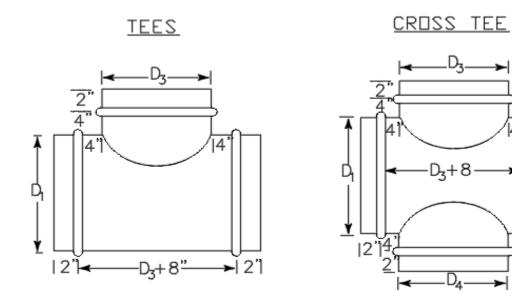
#### **ROUND TAPS OFF FLAT SURFACES**



- ALL TAPS HAVE 3/4" FLANGE OUT WITH 1/8" THICK GASKET.
- 45 DEGREE LATERAL TAPS AVAILABLE
- INSTALLED DAMPERS AVAILABLE (SEE DAMPER SHEET FOR DETAILS)



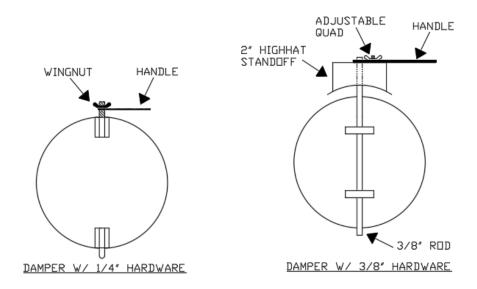
### **TEES AND CROSSES**



- SEALED, TACK WELDED SEAMS, STITCH WELDED LONGITUDINAL SEAMS
- CONICAL, SHOE STYLE, 45 DEGREE LATERAL TEES AND CROSSES AVAILABLE
- REDUCING TEES AND LATERALS ALSO AVAILABLE



### **ROUND DAMPERS**



- DAMPER AVAILABLE IN SLEEVES, LOOSE, OR INSTALLED IN SPIRAL PIPE AND FITTINGS
- DAMPERS UP TO 16" ROUND WILL BE 1/4" HARDWARE
- DAMPER 18" AND ABOVE WILL BE 3/8" ROD HARWARE
- RAPID STANDOFFS AVAILABLE FOR 1/4" HARDWARE

