



***Submittal for Welded
Rectangular &
Round Ductwork***



HRANEC SHEET METAL, INC.

Single Wall Spiral Standards

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SPECIAL NOTES:

1. OUR WELDED DUCT WORK HAS BEEN EXTENSIVELY AIR TESTED FOR LOW, MEDIUM & HIGH PRESSURES.
2. STANDARD MATERIAL BLACK IRON
ALTERNATE MATERIAL GALVANIZED
ALTERNATE MATERIAL STAINLESS STEEL 304
ALTERNATE MATERIAL ALUMINUM 3003
3. METAL GAUGES ARE PRESSURE CLASS DRIVEN FROM LATEST SMACNA STANDARDS.
4. REINFORCEMENT APPLICATION PER SMACNA STANDARDS.
5. WELDED STRAIGHT DUCT CONNECTION LENGTHS AS FOLLOWS:
 - A.) 58' OR 46' RECTANGULAR $\frac{1}{2}$ ' FLANGE OUT CONNECTION.
 - B.) 60' OR 48' ROUND WITH ANGLE RINGS CONNECTION.
6. ALL SEAMS BUTT OR CORNER WELDED.
7. WELDED SEAMS AND JOINTS ARE MIG WELDED COMPLYING WITH AWS STANDARDS.
8. CLEAN OUT DOORS FABRICATED FLAT BLANK GASKETED BOLT AND NUT CONNECTION.

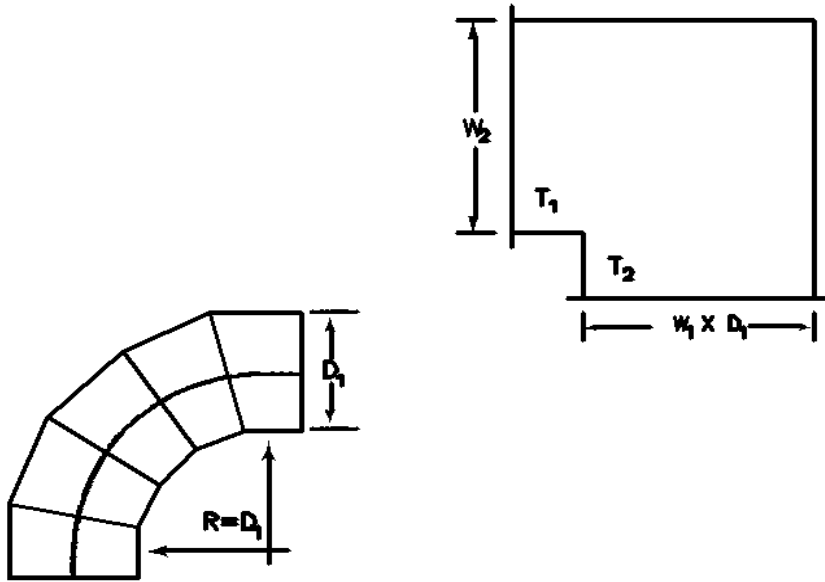
DESCRIPTION

TYPICAL
NOTES



HRANEC SHEET METAL INC
MECHANICAL CONTRACTORS

WELDED ELBOWS



- STANDARD ELBOWS SHOWN. OTHER OPTIONS AVAILABLE AS FOLLOWS:
 - A.) RADIUS HEEL RADIUS THROAT
 - B.) RADIUS HEEL SQUARE THROAT
- MITERED ELBOWS CONSTRUCTED PER SPECIFIED DEGREE.
- STANDARD RADIUS IS 1.5 X DIAMETER OR THE WIDTH.
- WELDED ROUND FITTINGS TACKED ON.
- WELDED ROUND STRAIGHT JOINTS VAN-STONE.

DESCRIPTION

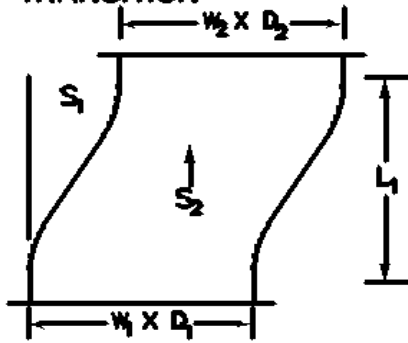
Welded
Elbows



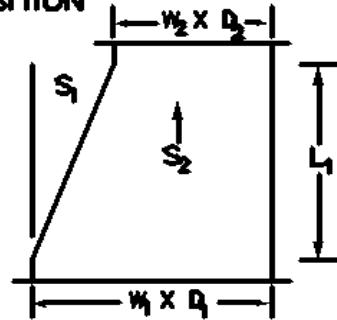
HRANEC SHEET METAL INC
MECHANICAL CONTRACTORS

WELDED OFFSETS & TRANSITIONS

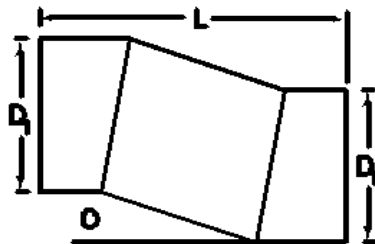
RADIUS TRANSITION



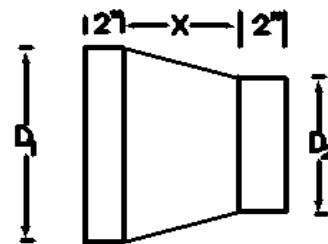
RECTANGULAR TRANSITION



OFFSET



CONCENTRIC REDUCER



- FABRICATED LENGTH IS 2 TIMES THE GREATEST SET OF THE FITTING.

DESCRIPTION

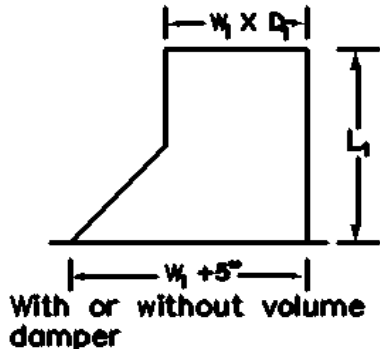
Welded Offsets
& Transitions



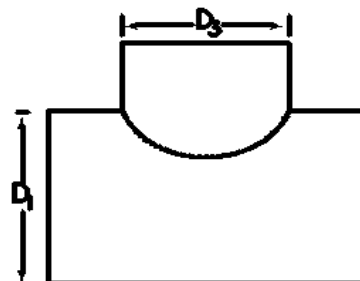
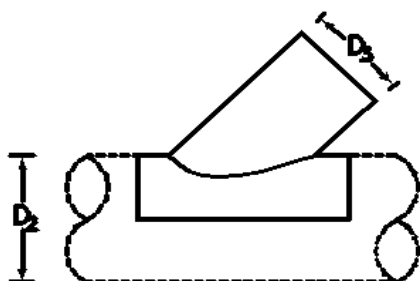
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WELDED TAPS

RECTANGULAR SHOE TAP
 $L_1 = 12"$ STANDARD



LATERAL SADDLE TAP



2° STANDARD SADDLE

- ALTERNATE ANGLES AND DEGREES CAN BE FABRICATED.
- ALTERNATE BELLMOUTH TAKEDOFF'S CAN BE FABRICATED.

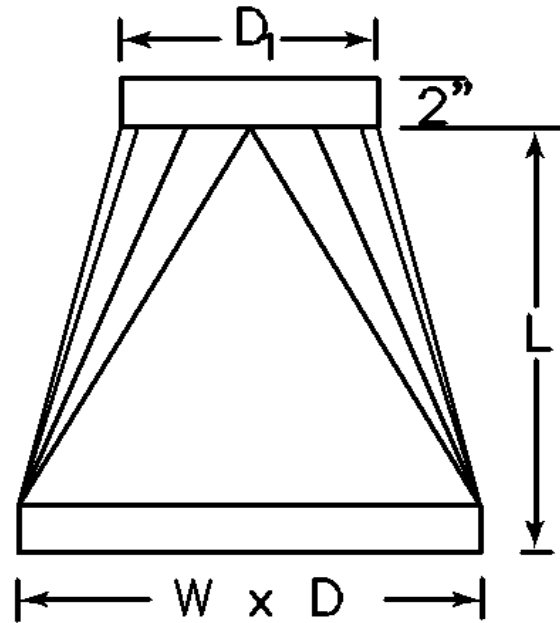
DESCRIPTION

Welded
Taps



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WELDED SQUARE to ROUND



- SQUARE CONNECTION END TO BE $\frac{1}{2}''$ FLANGE OUT.
- ROUND CONNECTION END TO BE ANGLE RING.

DESCRIPTION

Welded Square
To Round

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**AIR DUCT LEAKAGE
TEST DATA**

PROJECT: Hranec Corporation Office

SYSTEM: Galvanized Weld

FAN CFM (Q) : ---- SPECIFIED TEST PRESSURE (P_J) : 6.0" or higher

LEAKAGE CLASS (C_L) : 6 DUCT CONSTRUCTION PRESSURE CLASS (P_C) : A

DESIGN DATA			FIELD TEST DATA								
SUBJECT DUCT	DUCT SIZE	AREA FT ²	ALLOWABLE LEAKAGE FACTOR CFM/100FT ²	CFM TEST SECTION	DIAMETER		PRESSURE "W.G. ACROSS DUCT	DATE	PERFORMED BY	WITNESSED BY	ACTUAL CFM
					ORIFICE	TUBE					
Rectangular	12 X 8	33.3	19.2	6.39	1.584"	3.0"	10.2	5/2/08	Rick Blasic		1.0
Galv. Weld											
Round											
Galv. Weld	10"0	26.18	19.2	5.02	1.584"	3.0"	12.1	5/2/08	Rick Blasic		1.0

DESCRIPTION
Pressure Tests



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