



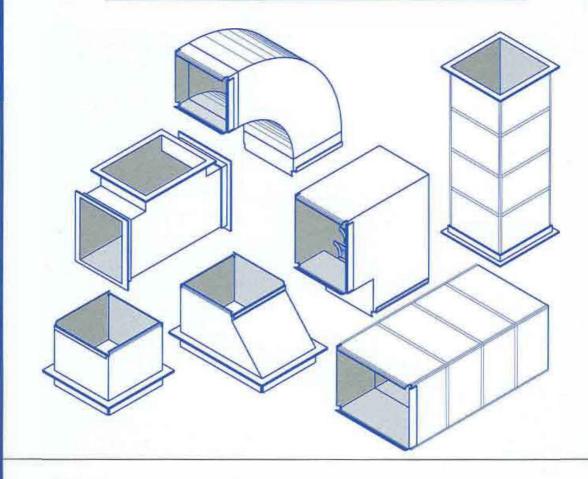
SAIF QATAR

DUCT-FAB

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RECTANGULAR DUCT AND FITTINGS

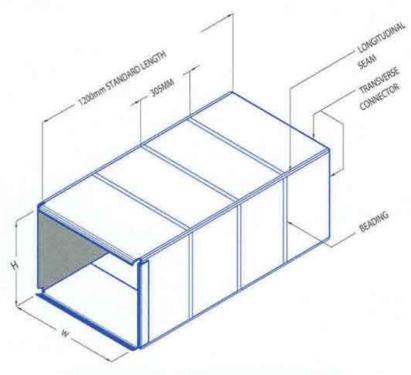


DESCRIPTION:

- DUCT WORK MANUFACTURED TO THE FOLLOWING SPECIFICATIONS:
 - . SMACNA.
 - · DW142/144.
- GALVANIZED STEEL TO ASTM A527/653 ZINC COATING LOCK FORMING QUALITY GRADE OF G90/Z 27.
- · OPTIONS:
 - . PLAIN END OR FLANGE.
 - . BLACK MILD STEEL.
 - . ALUMINUM.
 - . STAINLESS STEEL.
- · THICKNESS:
 - . 0.4mm thik, UP TO 3mm thick.
- STANDARD STRAIGHT LENGTH 1200mm.



RECTANGULAR STRAIGHT



RECTANGULAR STANDARD STRAIGHT DUCT 1200mm LENGTH



- PITTSBURGHSEAMS
 - SMALL PITTSBURGH FOR 26 TO 22Ga.



 LARGEST PITTSBURGH FOR 20 TO 18Ga.





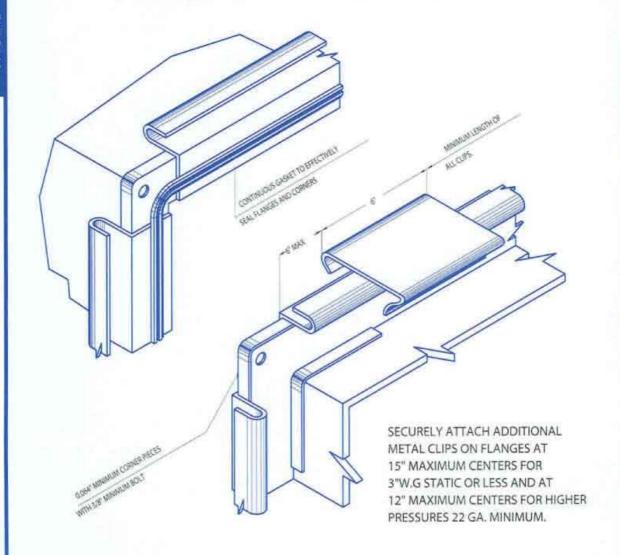
- BEADING STANDARD DISTANCE IS AT EVERY 305mm INTERVAL UP TO 18ga. STEEL THICKNESS ONLY.
- BEADING IS ONLY FOR STANDARD STRAIGHT LENGTH OF 1200mm.



 FOR CONNECTOR DETAILS, REFER TO STANDARD DUCT CONSTRUCTION SCHEDULE.



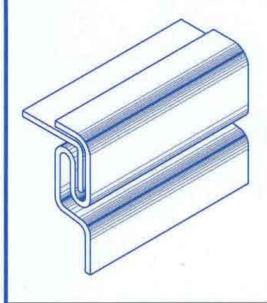
FORMED FLANGE/ TDC



JOINT T-24, FORMED FLANGE: MATING FLANGES
ARE FORMED ON THE ENDS OF THE DUCT IN
DOUBLE FLANGE STYLE TO CREATE A TEE SHAPE
WHEN ASSEMBLED. 0.064" MINIMUM THICKNESS
STEEL CORNER PIECES WITH 3/8" MINIMUM
DIAMETER BOLTS SHALL BE USED TO CLOSE
CORNERS. 1/4" BY 1/2" MINIMUM SIZE GASKETS
OF SUITABLE DENSITY AND RESILIENCY SHALL BE
CONTINUOUS AROUND THE JOINT AND SHALL BE
LOCATED TO FORM AN EFFECTIVE SEAL, MATING
FLANGES SHALL BE LOCKED TOGETHER BY 6" LONG
CLIPS LOCATED WITHIN 6" OF EACH CORNER AND
ALSO SPACED AT CENTERS NOT EXCEEDING 15"
OF 3"W.G. OR LEES STATIC PRESSURE, NOR
EXCEEDING 12" FOR 4",6" AND 10"W.G.



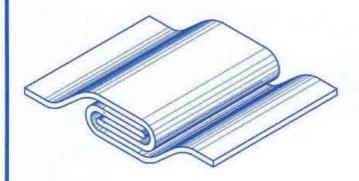
LONGITUDINAL SEAMS





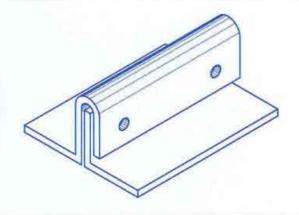
PITTSBURGH LOCK

PITTSBURGH SEAM: POCKET DEPTH VARIES
FROM 1/4" TO 5/8" DEPENDING ON
GUAGE OF METAL AND ROLL FROM EQUIPMENT.
THE MOST COMMON SIZES ARE 5/6" AND 3/8".
USED ON STRAIGHT DUCT AND FITTING.



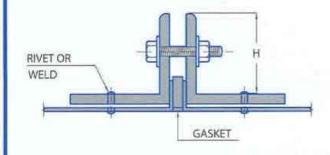
GROOVED SEAM

ALSO CALLED FLAT LOCK AND PIPE LOCK. GROOVED SEAM :TYPE ILLUSTRATED IS KNOWN AS PIPE LOCK, FLAT LOCK OR GROOVED SEAM.



STANDING SEAM

STANDING SEAM: UNLESS OTHER WISE REQUIRED BY THE APPLICATION,
A1" SEAM IS NORMALLY USED UP TO
42" DUCT WIDTH WITH 1 1/2" SEAMS
FOR LARGER DUCTS,
MAY BE USED ON INTERIOR OF THE
DUCT WITH DUE CONSIDERATION FOR
VELOCITY LEVEL. FASTEN TOGETHER
AT ENDS AND 8" INTERVALS.



COMPANION ANGLES (CAULK OR GASKET)



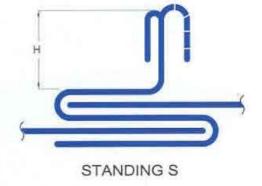
LONGITUDINAL SEAMS



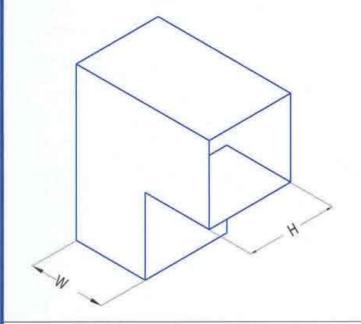




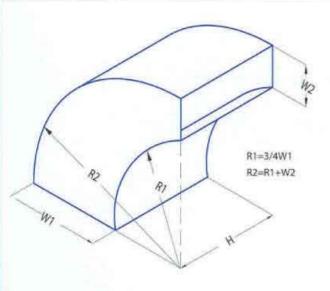
HEMMED "S" SLIP



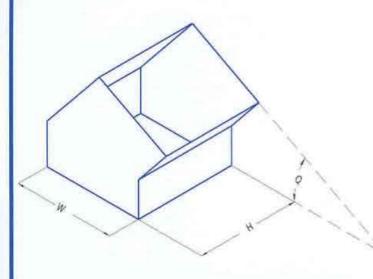




SQUARE THROAT ELBOW WITHOUT VANES

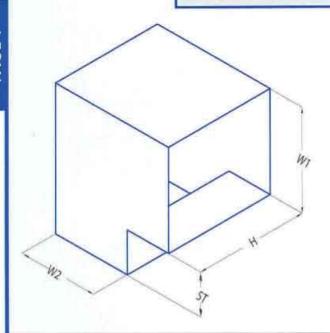


DUAL RADIUS ELBOW



MITERED ELBOW

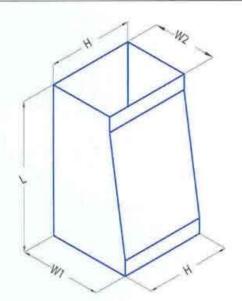




SQUARE THROAT ELBOW

W1: WIDTH ON END 1 W2: WIDTH ON END 2 H: DUCT HEIGHT

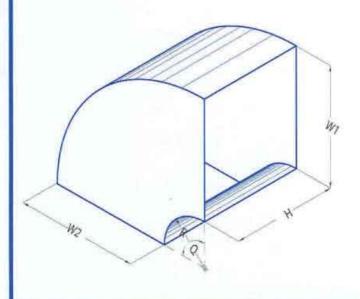
ST: SQUARE THROAT LENGTH.



STRAIGHT SIDE TRANSITION

W1: WIDTH ON END 1
W2: WIDTH ON END 2
H: DUCT HEIGHT
L: LENGTH

 IF (H) ON BOTH ENDS ARE NOT THE SAME, INDICATE ELEVATION.



RADIUS ELBOW VANES DEPENDING ON ELBOW WIDTH.

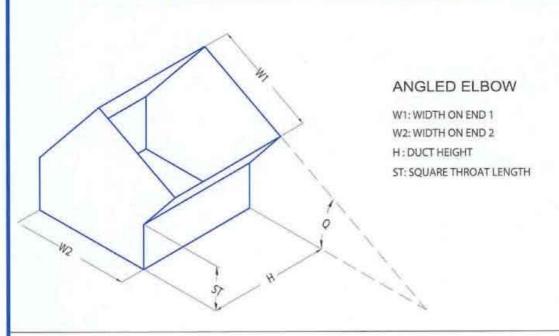
W1: WIDTH ON END-1
W2: WIDTH ON END-2
H: DUCT HEIGHT
R: RADIUS CENTERLINE

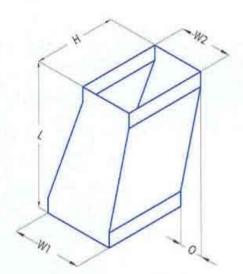
R: RADIUS CENTERLINE ROD = $=\frac{3W}{2}$ STD ROD.

Q:DEGREE

 IF (H) ON BOTH ENDS ARE NOT THE SAME, INDICATE ELEVATION.





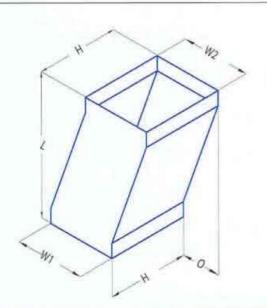


DOGLEG OFFSET UNEQUAL ENDS

W1: WIDTH ON END 1
W2: WIDTH ON END 2
H: DUCT HEIGHT
L: LENGTH

O: OFFSET

 IF (H) ON BOTH ENDS ARE NOT THE SAME, INDICATE ELEVATION



DOGLEG OFFSET EQUAL ENDS

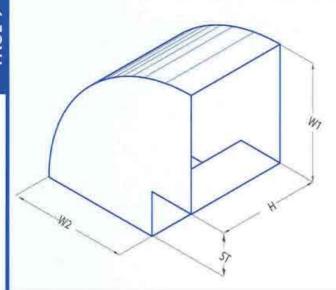
W1: WIDTH ON END 1 W2: WIDTH ON END 2 H: DUCT HEIGHT

L: LENGTH

O:OFFSET

 IF (H) ON BOTH ENDS ARE NOT THE SAME, INDICATE ELEVATION

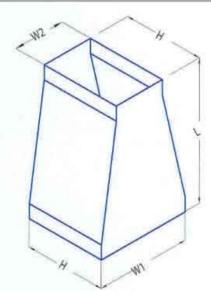




SQUARE THROAT RADIUSED HEEL ELBOW

W1: WIDTH ON END 1 W2: WIDTH ON END 2 H: DUCT HEIGHT

ST: SQUARE THROAT LENGTH



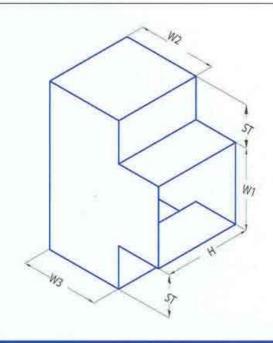
EQUAL SIDE TRANSITION

W1: WIDTH ON END-1 W2: WIDTH ON END-2

H : DUCT HEIGHT

L:LENGTH

 IF (H) ON BOTH ENDS ARE NOT THE SAME, INDICATE ELEVATION



TEE

W1: WIDTH ON END 1 W2: WIDTH ON END 2

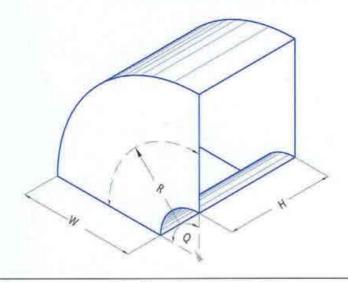
W3: WIDTH ON END 3

H: DUCT HEIGHT

ST: SQUARE THROAT LENGTH

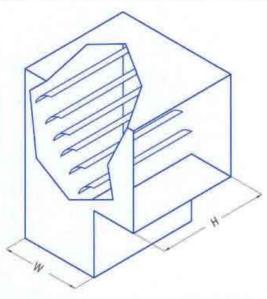


RECTANGULAR ELBOWS

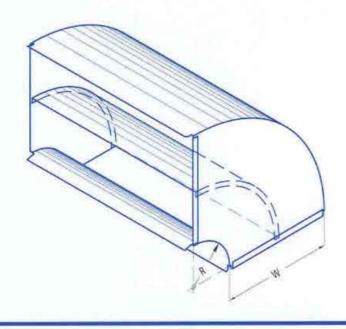


RADIUS ELBOW

(CENTERLINE R = $\frac{3W}{2}$ = STD RADIUS)



SQUARE THROAT ELBOW WITH VANES.



SHORT BENDS

W=UP TO 300mm NO SPLITTER. W=OVER 300mm UP TO 500mm, 1'NO. SPLITTER. $(\frac{W}{3})$.

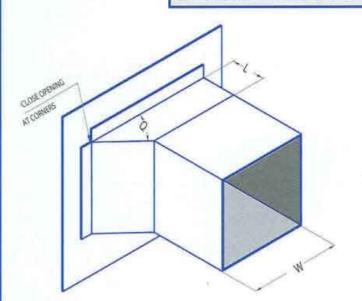
W=OVER 500mm UP TO 1000mm, 2'NO. SPLITTER. $(\frac{W}{6}, \frac{W}{2})$.

W=OVER 1000mm 3'NO SPLITTER. $(\frac{W}{12}, \frac{W}{4}, \frac{W}{2})$.

 LONG BENDS - (R=W),NO SPLITER REQUIERED.

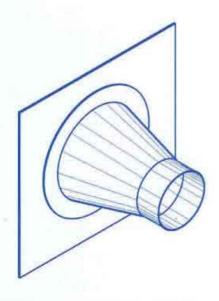


BRANCH CONNECTIONS

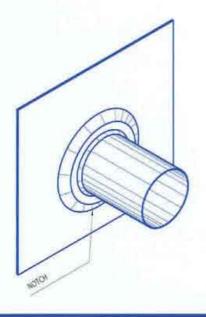


STRAIGHT TAP CONNECTION

45 DEGREE ENTRY Q = 45° L = 1/4W, 4" MIN.



CONICAL TAP CONNECTION



SPIN IN TAP CONNECTION