

SYSTEM NO.	SERVICE	UNIT LOCATION	DESIGN/SHOP DRAWING NO.	TOTAL CFM	WATER GAUGE CLASS	LINING		EXTERNAL INSULATION	SEAL CLASS	NOTES
						DISCHARGE	INTAKE			
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
<p style="font-size: 48px; font-weight: bold; opacity: 0.5;">SAMPLE</p>										
<p>SUPPLY AIR DUCT SYSTEM SCHEDULE</p>										
<p>SUPPLY DUCT SYSTEMS</p>										
PROJECT:						JOB #			-	
LATEST REVISION AND DATE						0	7-1-06		-	

NOTES:  
1. XXXX

SEAL CLASS:

A = ALL JOINTS, SEAMS AND PENETRATIONS    B = ALL JOINTS AND SEAMS    C = JOINTS

W.G. : 1" POS. OR NEG. MATERIAL : GALVANIZED STEEL SEALER : JOINTS  
 LONGITUDINAL SEAMS : SNAP LOCK: 26-22 GA. LARGE PITTS. ON 20 GA. & HEAVIER.

DS - DRIVE SLIP  
 FS - HEMMED "S" SLIP  
 BS - 1" STANDING BAR SLIP  
 TDC - TRANSVERSE DUCT CONNECTION  
 DUCTMATE - DUCTMATE SLIP-ON FLANGE  
 GTR - CENTER TIE ROD 60" MAX SPACING  
 TCTR - TWIN CENTER TIE ROD 60" MAX SPACING  
 JTR - JOINT TIE RODS 60" MAX. SPACING 1" FROM ONE END OF TDC/DUCTMATE  
 TTR - TWIN TIE RODS 60" MAX. SPACING 1" FROM EACH END OF TDC/DUCTMATE

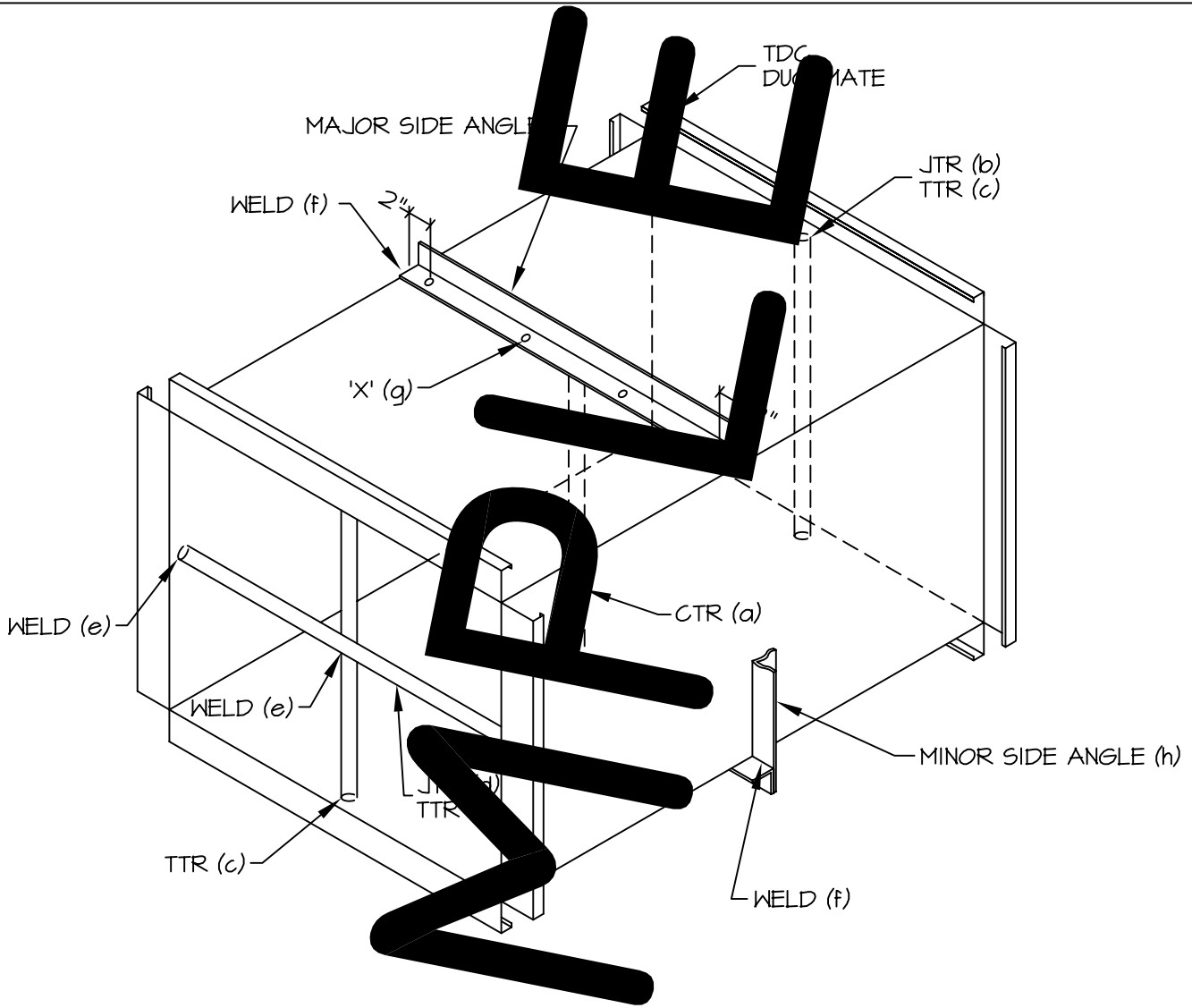
DUCT SIZE EACH SIDE	GAUGE		TRANSVERSE JOINT			REINFORCING			HANGERS	
	DUCT	FTG'S.	DUCT LENGTH	MAJOR	MINOR	CENTERS	INTERMEDIATE	TIE ROD	CENTERS	TYPE
1" THRU 30"	26	26	54"	FS	DS	NONE	NONE	NONE	9'-6"	1" x 18 GA.
18" THRU 36"	26	26	"	BS	TDC OVER 18"	"	"	"	"	"
31" THRU 42"	24	24	1/4"	TDC	TDC	"	"	"	"	ROD + ANGLE
43" THRU 54"	22	22	"	"	"	"	"	"	"	"
55" THRU 66"	20	20	"	"	"	"	"	"	"	"
75" THRU 84"	20	20	"	"	"	"	"	"	"	"
85" THRU 96"	20	20	"	"	"	2"	"	R/CTR	"	"
97" THRU 120"	18	18	"	"	"	"	2"x2"x1/8"	R/CTR	"	"
121" AND UP	18	18	"	WARD	WARD	"	2"x2"x1/4"	R/CTR	"	"

NOTES:

1. ALL TIE RODS SHALL BE WELDED TO DUCT SURFACES AND WHEREVER THE INTERSECTION OF EACH OTHER, K.D. (FIELD ASSEMBLED) DUCTWORK MAY USE CONDU-LOC MECHANICAL TIES WITH THE ATTACHMENT METHOD.

W.G. DUCT CONSTRUCTION

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NOTES

- a. CENTER TIE ROD ATTACHED WITHIN 2" OF ANGLE CENTER LINE.
- b. JOINT TIE ROD ATTACHED TO ONE FROM ONE JOINT FLANGE ONLY.
- c. TWIN TIE RODS ATTACHED TO ONE FROM EACH JOINT FLANGE.
- d. CROSS-TIED RODS WELDED AT INTERSECTION.
- e. WELD TO THE EXTENSIVE POSITION, NOT ALL AROUND.
- f. WELD ANGLE TO CORNER OF DUCT FOR LENGTH OF ANGLE LEG.
- g. 'x' = 12" MAX. SPACING OF ROD, BOLT, SCREW OR RIVET
- h. MINOR SIDE REINFORCEMENT ANGLE WHEN SCHEDULED.

THE SIZE, QUANTITY AND PLACEMENT OF REINFORCEMENTS ARE FOUND ON THE WATER GAUGE DUCT CONSTRUCTION MATRIX SHEETS. EACH SIDE OF THE DUCT IS VIEWED AS INDEPENDENT TO THE OTHER. FOR INSTANCE, A 76x72 DUCT 2"W.G. REQUIRES ANGLE STIFFENING & TIE RODS SUPPORTING THE 76" SIDE ONLY. THE ONLY INSTANCE WHERE THE REINFORCEMENT MAY BE OMITTED IS WHEN A FITTING LENGTH IS 36" OR LESS. THE GAUGE REQUIREMENTS SATISFY CANADA TABLES IN FLANGE AND REINFORCEMENT CRITERIA AT FITTING LENGTHS 36" OR LESS WHEN FOLLOWING 60" SPECS.

## REINFORCEMENT ATTACHMENTS

PROJECT:

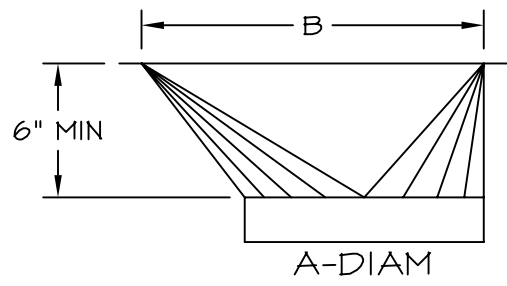
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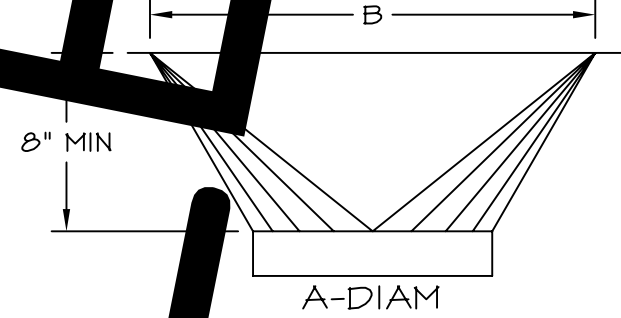
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SQUARE TO ROUND  
MEDIUM PRESSURE



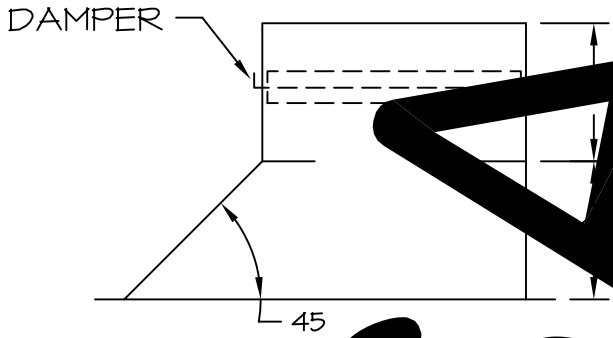
SQUARE TO ROUND  
MEDIUM PRESSURE



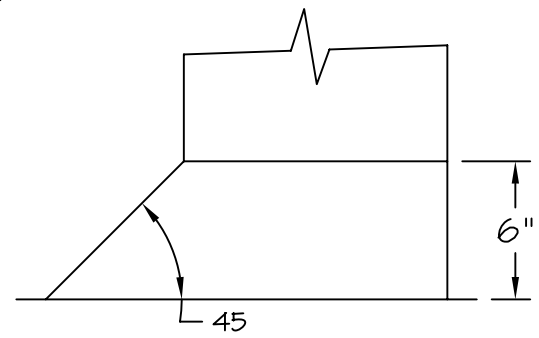
A	B	B	B
6"	8"x5"	10"x4"	N/A
8"	10"x6"	15"x5"	N/A
10"	12"x8"	16"x6"	N/A
12"	15"x10"	18"x8"	24"x6"
14"	17"x12"	19"x10"	24"x8"
16"	18"x14"	20"x12"	24"x10"

B	B	B
8"x5"	12"x4"	N/A
14"x6"	17"x5"	N/A
16"x8"	21"x6"	N/A
18"x10"	22"x8"	28"x6"
20"x12"	24"x10"	28"x8"
20"x14"	24"x12"	28"x10"

BRANCH TEE  
LOW PRESSURE



BRANCH TEE  
MEDIUM PRESSURE

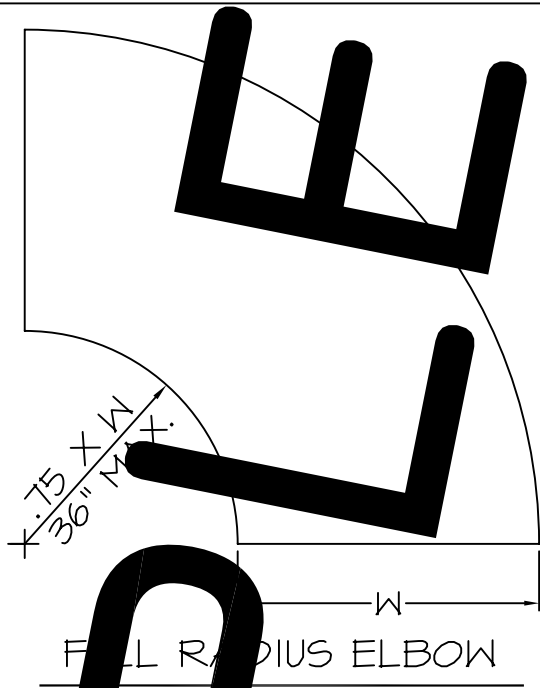


DAMPER IS REQUIRED WHEN SERVING TWO OR MORE OUTLETS

FLANGES SHALL BE INSPECTED TO MAIN AND SEALED USING GASKET OR SEALANT  
ALL BRANCH TEES DOWNSTREAM OF WAY BOXES SHALL BE STRAIGHT SPIN-IN TYPE.

BRANCH TEE'S

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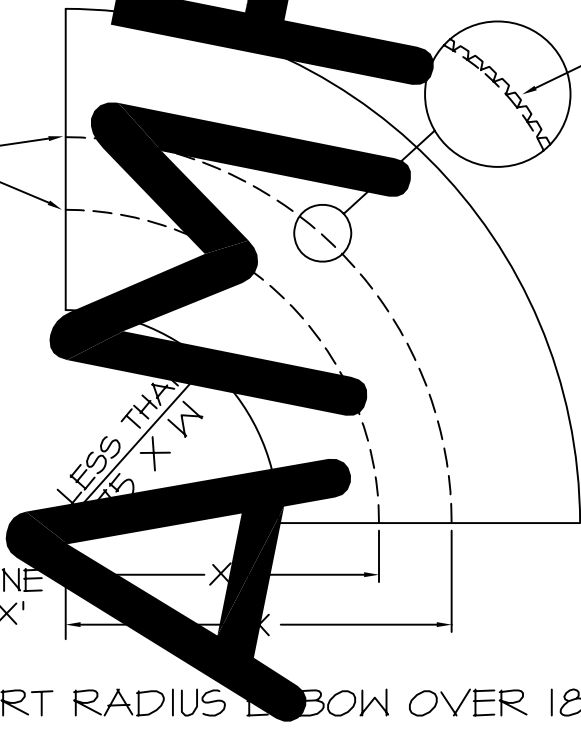


FULL RADIUS ELBOW

1/2" HEMMED EDGES TYP.

WELD, SCREW OR RIVET 12" O.C.

SEE SPLITTER VANE CHART TO FIND 'X'



SHORT RADIUS ELBOW OVER 18" IN WIDTH

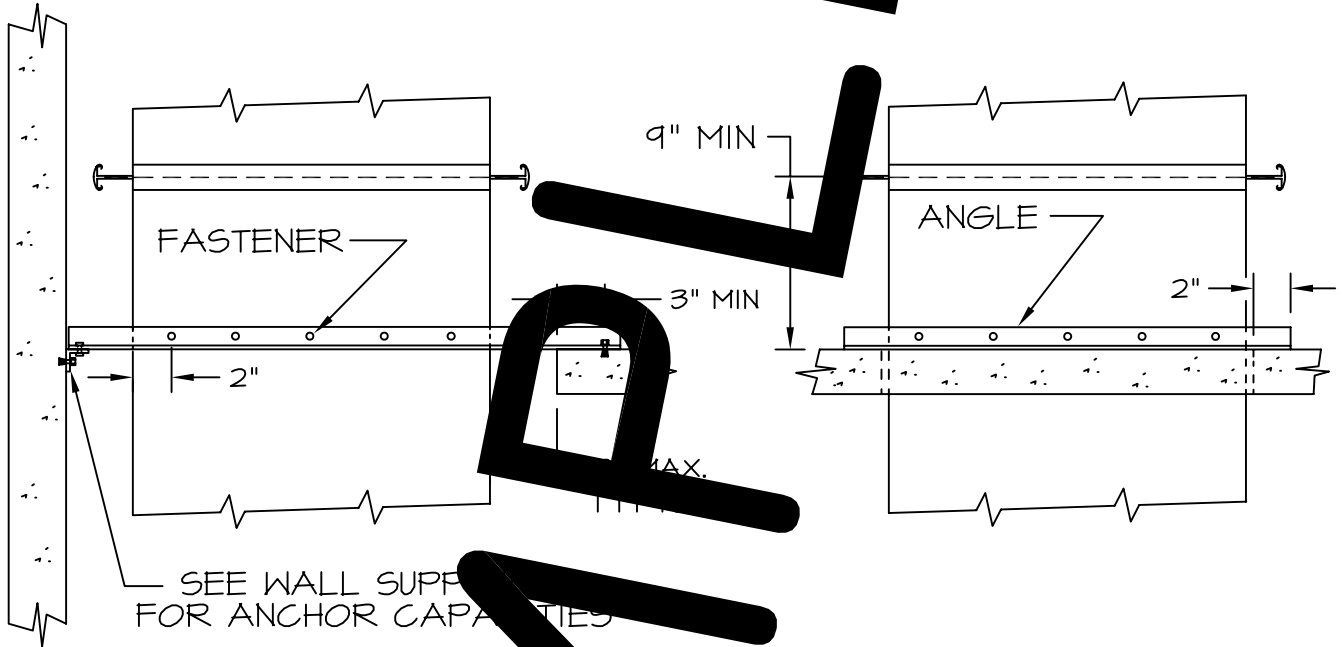
DIVIDE RADIUS BY THE WIDTH TO FIND NUMBER OF VANES TO USE  
 1 VANE = .75 TO .32    2 VANES = .32 TO .15    3 VANES = .14 AND LESS  
 EXAMPLE: 18" RADIUS DIVIDED BY 56" WIDTH = .32 (2 VANES)

## RADIUS ELBOWS

PROJECT:	JOB #	25
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IN SHAFT

FROM FLOOR



SEE WALL SUPPORT FOR ANCHOR CAPACITIES

ANGLE SIZE DUCT SUPPORT EVERY 12 FT.

DUCT SIZE

- \* UP TO 48"x24"
- \* UP TO 60"x24"
- \* UP TO 60"x60"
- \* UP TO 72"x72"

ANGLE SIZE

- 1 1/2"x1 1/2"x 1/8"
- 1 1/2"x1 1/2"x 3/16"
- 2"x2"x 1/8"
- 2"x2"x 1/4"

\* = OR EQUIV. PERIMETER NOT EXCEEDING 4 in 1 ASPECT RATIO

## RISER SUPPORT @ SLAB

PROJECT:

JOB #

LATEST REVISION AND DATE

0

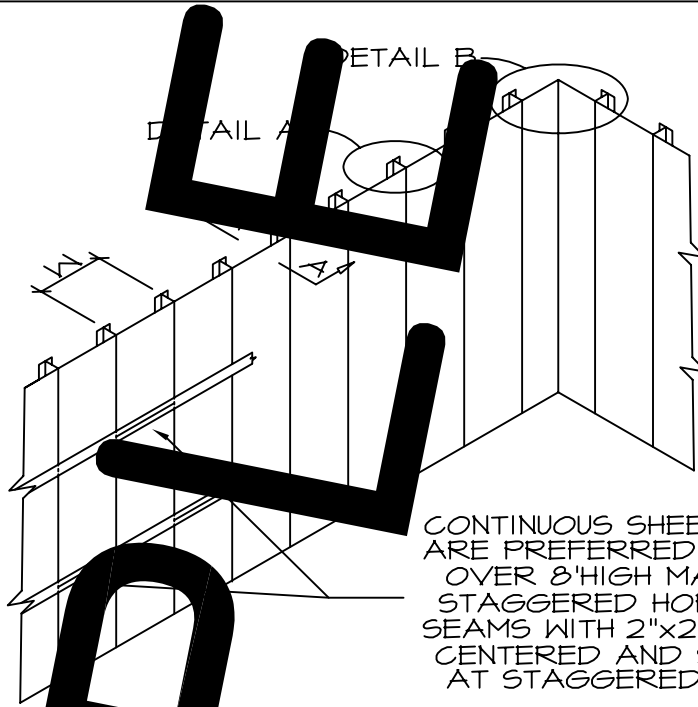
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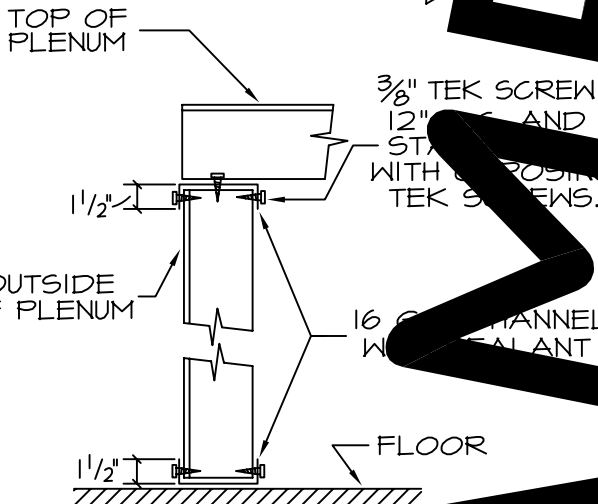
NOTE 1: JOINTS MAY FACE INSIDE OR OUTSIDE.

NOTE 2: SEAL JOINTS WITH CONTINUOUS BEADS AND FASTEN WITH SCREWS AT MAX. SPACING INDICATED.

NOTE 3: LINING OR INSULATION SHALL BE FIELD INSTALLED.

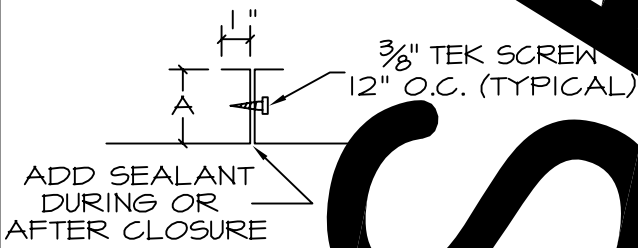


CONTINUOUS SHEET PANELS ARE PREFERRED. CASINGS OVER 8'HIGH MAY HAVE STAGGERED HORIZONTAL SEAMS WITH 2"x2"x 1/8" ANGLE CENTERED AND SCREWED AT STAGGERED SEAMS.

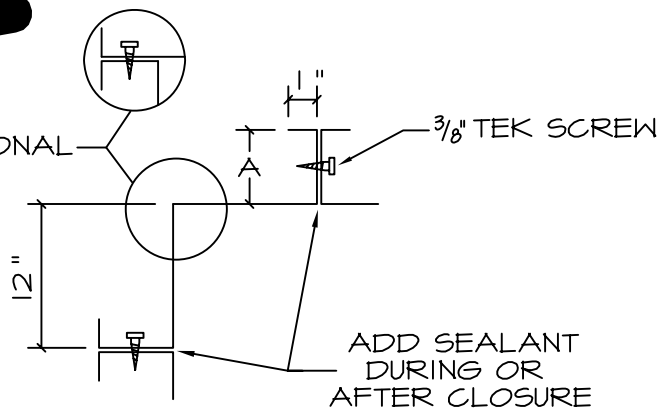


SECTION 'A'

MAX. HEIGHT	PANEL GAUGE	"A" DEPTH	W = MAX. WIDTH OF PANEL LOAD CLASS ("W.G. STATIC)		
			2"	3"	4"
6'					
6'					
8'					
8'					
10'					
10'					



DETAIL 'A'



DETAIL 'B'

SINGLE WALL PLENUM / CASING

PROJECT:	JOB #	41
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