

**DIMENSIONAL DATA**

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**R-6 COMMERCIAL**

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620 North Post Street • Post Falls, ID 83854 • 208.777.7444 ph 208.777.7445 fax •  
[www.spunstrand.com](http://www.spunstrand.com)

## R-6 (Insulated) Duct and Fittings – Shipping Weights

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
NOMINAL DIAM. (IN)	STRAIGHT DUCT / FT (lbs)	45° ELBOW (lbs)	90° ELBOW (lbs)	CON. RED. (lbs)	ECC. RED. (lbs)	END CAP (lbs)	TEE (lbs)	SINGLE 45° Y (lbs)	SINGLE 90° Y (lbs)	CROSS (lbs)	DOUBLE 45° Y (lbs)	DOUBLE 90° Y (lbs)	TRUE Y (lbs)	SADDLE TAP (lbs)	TRANSITIO N (lbs)	FLANGE (lbs)
4	2	2	5	2	3	2	2	2	5	2	5	10	2	1	7	2
5	2	2	5	2	4	2	5	5	7	7	7	12	2	1	8	2
6	3	2	5	4	5	2	5	7	10	7	10	14	5	1	10	4
7	3	4	6	5	6	4	5	8	11	8	11	15	5	2	12	4
8	3	5	8	5	6	4	7	10	13	10	13	18	6	2	13	5
9	4	5	10	6	8	4	10	12	18	12	18	27	6	2	14	5
10	4	6	11	6	8	6	11	14	20	13	20	30	8	5	17	6
12	5	8	14	6	8	6	15	19	25	19	25	39	8	5	19	7
14	6	11	19	8	11	7	20	27	33	24	34	46	13	5	23	7
16	7	12	20	10	12	8	21	29	34	26	36	48	14	6	23	7
18	7	14	26	10	13	10	26	37	40	31	44	52	19	6	25	8
20	8	19	33	12	15	13	32	45	56	37	58	67	27	10	31	11
22	9	23	38	15	20	14	37	50	62	43	68	84	30	10	50	17
24	13	27	50	18	24	18	53	77	89	65	95	119	42	13	58	19
26	14	32	57	21	27	18	57	89	107	71	113	137	48	13	63	21
28	15	33	62	24	31	19	62	113	131	77	148	160	57	13	68	23
30	17	38	65	25	32	20	71	125	154	83	154	202	64	14	72	25
32	18	42	94	26	34	21	78	133	169	90	169	217	72	15	78	26
34	20	50	95	28	37	23	96	291	181	111	198	247	84	17	83	28
36	22	58	96	30	39	25	114	181	192	132	228	277	96	18	88	30
38	24	61	106	32	44	29	119	189	205	138	236	298	112	18	91	31
40	26	64	103	34	49	31	124	197	219	144	246	319	127	19	95	32
42	26	70	125	38	49	32	134	214	253	159	264	362	159	19	101	33
44	30	74	132	40	51	30	139	218	258	163	271	368	170	20	105	34
46	32	78	139	42	53	31	144	222	262	167	278	374	179	21	108	36
48	30	86	148	43	56	29	152	230	268	176	292	386	195	21	112	38
54	37	112	202	53	70	37	230	342	391	264	432	547	259	26	119	40
60	46	134	249	59	77	48	292	451	534	333	570	723	285	33	127	43
66	62	208	389	88	114	56	448	716	834	505	901	1132	545	40	181	61
70	72	257	482	107	138	61	553	892	1033	620	1122	1404	718	45	97	72
*72	77	281	528	116	151	65	604	981	1133	679	1234	1540	805	46	236	80

**\*72" and larger diameter ductwork is not included in the ICC-ES listing.**

## OUTSIDE DIAMETER FOR R-6<sup>2</sup> DUCT

Tolerance +/- 1/4"

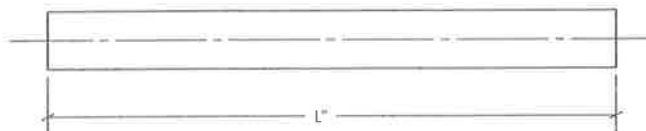
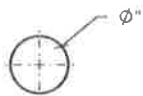
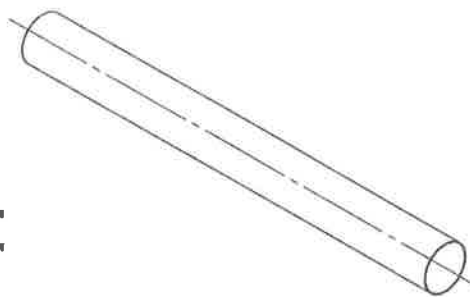
a

NOMINAL INSIDE DIAMETER (Inches)	INNER WALL		OUTER WALL		OUTSIDE DIAMETER
	# of PLIES	NOM. WALL THICKNESS (Inch)	# of PLIES	NOM. WALL THICKNESS (Inch)	
4	2	0.045	3	0.0675	6.4
5	2	0.045	3	0.0675	7.4
6	2	0.045	3	0.0675	8.4
7	2	0.045	3	0.0675	9.4
8	2	0.045	3	0.0675	10.4
9	2	0.045	3	0.0675	11.4
10	2	0.045	3	0.0675	12.4
12	2	0.045	3	0.0675	14.4
14	2	0.045	3	0.0675	16.4
16	2	0.045	3	0.0675	18.4
18	2	0.045	3	0.0675	20.4
20	2	0.045	3	0.0675	22.4
22	2	0.045	3	0.0675	24.4
24	3	0.0675	4	0.09	26.5
26	3	0.0675	4	0.09	28.5
28	3	0.0675	4	0.09	30.5
30	3	0.0675	4	0.09	32.5
32	3	0.0675	4	0.09	34.5
34	4	0.09	4	0.09	36.6
36	4	0.09	4	0.09	38.6
38	4	0.09	4	0.09	40.6
40	4	0.09	4	0.09	42.6
42	4	0.09	4	0.09	44.6
44	4	0.09	4	0.09	46.6
46	4	0.09	4	0.09	48.6
48	4	0.09	4	0.09	50.6
54	4	0.09	5	0.1125	56.6
60	4	0.09	6	0.135	62.7
66	4	0.09	8	0.18	68.7
70	5	0.1125	9	0.2025	72.8

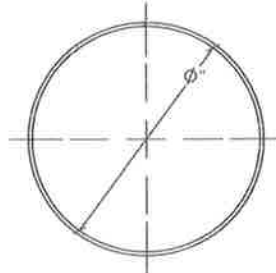
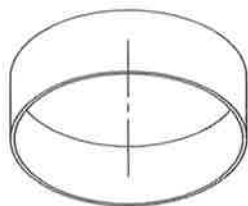
***\*72" and larger diameter ductwork is not included in the ICC-ES listing.***

# Straight Duct

4"  $\phi$  - 48"  $\phi$  L = 20'-0"  
 52"  $\phi$  - 72"  $\phi$  L = 10'-0"



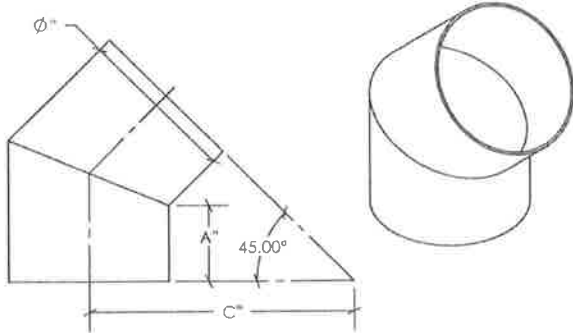
# End Cap



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				DRAWN	CJS		2009
				CHECKED			
				ENG APPR.			
				MFG APPR.			
				Q.A.			
				COMMENTS:			
	NEXT ASSY	USED ON	FINISH				
	APPLICATION		DO NOT SCALE DRAWING				
				SIZE	DWG. NO.	REV.	
				<b>A</b>	Underslab FRP		

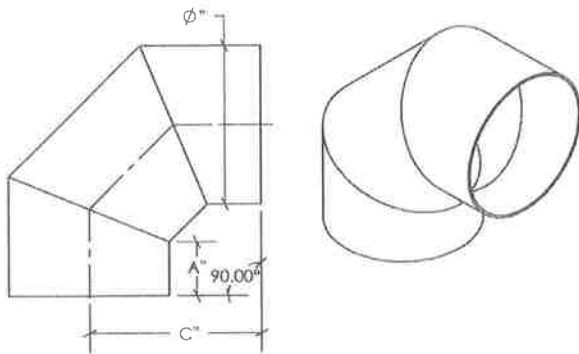
*\*72" and larger diameter ductwork is not included in ICC-ES listing.*

## 45° Elbows



Diameter (in)	90° Elbows		45° Elbows
	A (in)	C (in)	C (in)
4	6	12 3/8	16 5/8
5	6	12 7/8	17 1/8
6	6	13 3/8	17 5/8
7	6	13 7/8	18 1/8
8	6	14 3/8	18 5/8
9	6	14 7/8	19 1/8
10	6	15 3/8	19 5/8
12	6	16 3/8	20 5/8
14	6	17 3/8	21 5/8
16	6	18 3/8	22 5/8
18	6	19 3/8	23 5/8
20	6	20 3/8	24 5/8
22	6	21 3/8	25 5/8
24	6	22 3/8	26 5/8
26	6	23 3/8	27 5/8
28	6	24 3/8	28 5/8
30	6	25 3/8	29 5/8
32	6	26 3/8	30 5/8
34	6	27 3/8	31 5/8
36	6	28 3/8	32 5/8
38	6	29 3/8	33 5/8
40	6	30 3/8	34 5/8
42	6	31 3/8	35 5/8
44	6	32 3/8	36 5/8
48	6	34 3/8	38 5/8
52	6	36 3/8	40 5/8
54	6	37 3/8	41 5/8
60	6	40 3/8	44 5/8
72	6	46 3/8	50 5/8

## 90° Elbows

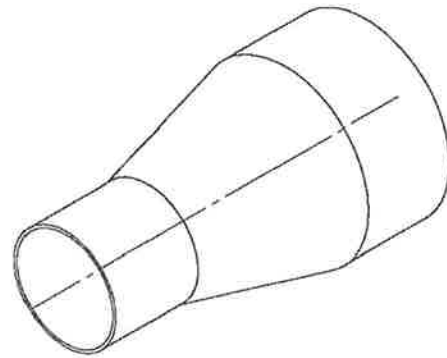


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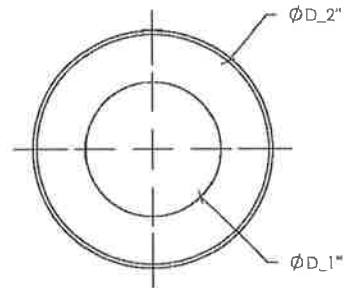
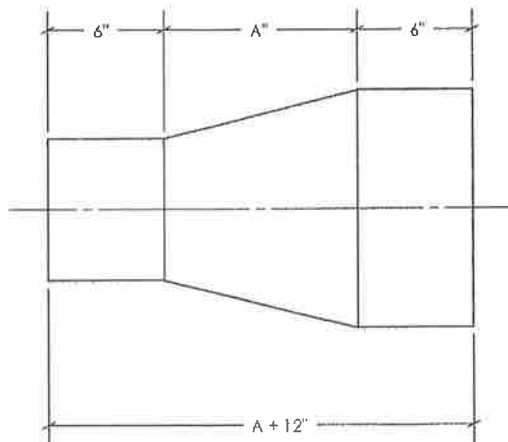
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	NAME	DATE	<i>Spunstrand Inc.</i>
		MATERIAL	DRAWN	CJS	
		FINISH	CHECKED		Elbows
			ENG APPR.		
			MFG APPR.		
			Q.A.		
			COMMENTS:		
NEXT ASSY	USED ON				SIZE DWG. NO. Underlab FRP REV.
APPLICATION		DO NOT SCALE DRAWING			

\*72" and larger diameter ductwork is not included in ICC-ES listing.

Inches of Reduction	A
1"	2 1/8"
2"	4
3"	5 7/8"
4"	7 3/4"
5"	9 5/8"
6"	11 1/2"
7"	13 3/8"
8"	15 1/8"
9"	17"
10"	18 7/8"
11"	20 3/4"
12"	22 5/8"
13"	24 1/2"
14"	26 3/8"
15"	28 5/8"
16"	32"
17"	33 7/8"
18"	35 3/4"
19"	36 5/8"
20"	37 5/8"



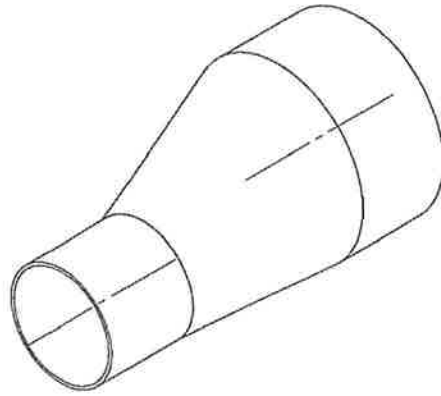
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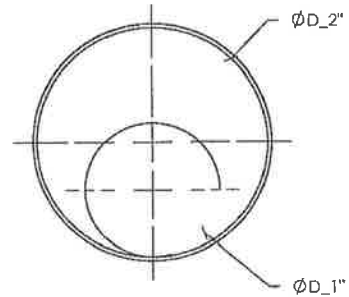
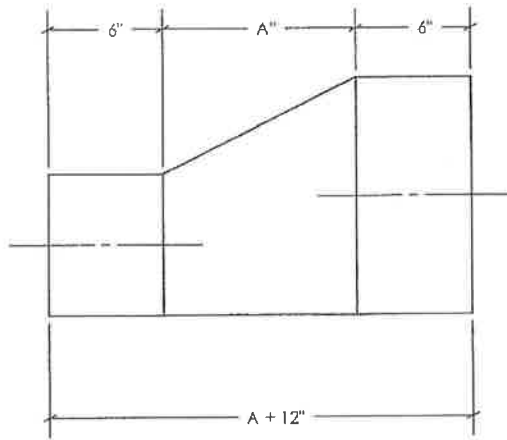
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		MATERIAL		CHECKED		
NEXT ASSY		USED ON		ENG APPR.		SIZE <b>A</b> DWG. NO. <b>Underlab FRP</b> REV.
APPLICATION		DO NOT SCALE DRAWING		IMFG APPR.		
				Q.I.A.		
				COMMENTS:		

Inches of Reduction	A
1"	4 1/4"
2"	8"
3"	11 3/4"
4"	15 1/2"
5"	19 1/4"
6"	23"
7"	26 3/4"
8"	30 1/4"
9"	34"
10"	37 3/4"
11"	41 1/2"
12"	45 1/4"
13"	49"
14"	52 3/4"
15"	57 1/4"
16"	64"
17"	67 3/4"
18"	69 1/4"
19"	71 1/2"
20"	75 1/4"

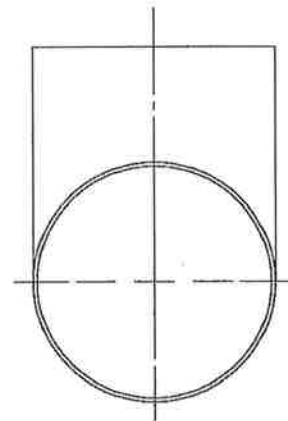
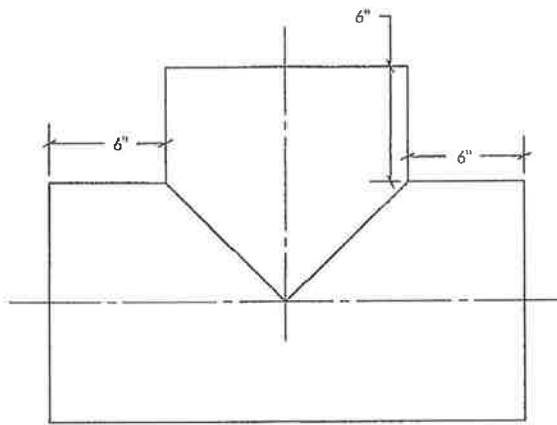
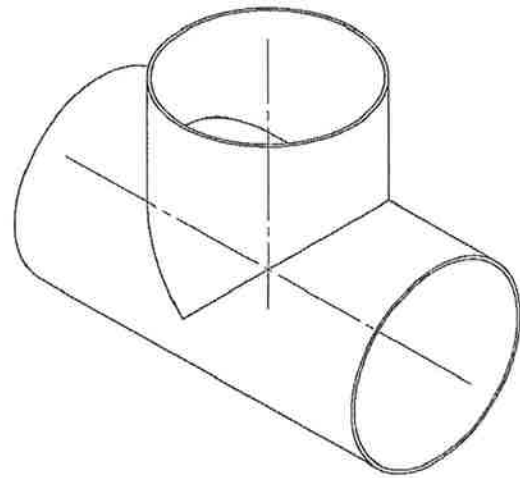
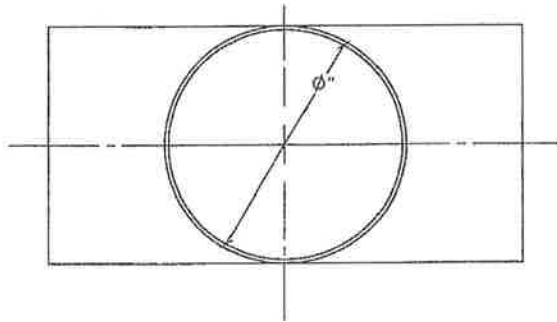


Inches of Reduction =  $D_2 - D_1$



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		DIMENSIONS ARE IN INCHES		NAME	DATE	<i>Spunstrand Inc.</i>
		TOLERANCES:		DRAWN	CJS	
		FRACTIONAL ±		CHECKED		<b>Eccentric Reducer</b>
		ANGULAR: MACH ± BEND ±		ENG APPR.		
		TWO PLACE DECIMAL ±		MFG APPR.		
		THREE PLACE DECIMAL ±		Q.A.		
		MATERIAL		COMMENTS:		THE <b>A</b> DWG. NO. Underlab FRP REV.
NEXT ASSY	USED ON	FINISH				
APPLICATION		DO NOT SCALE DRAWING				



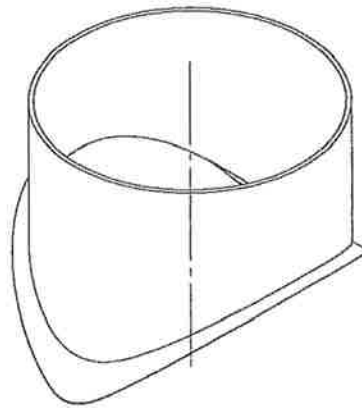
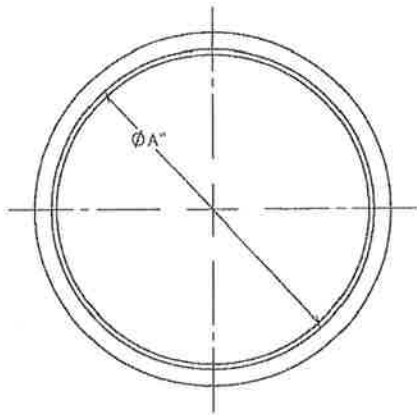
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		MATERIAL
		FINISH
NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING

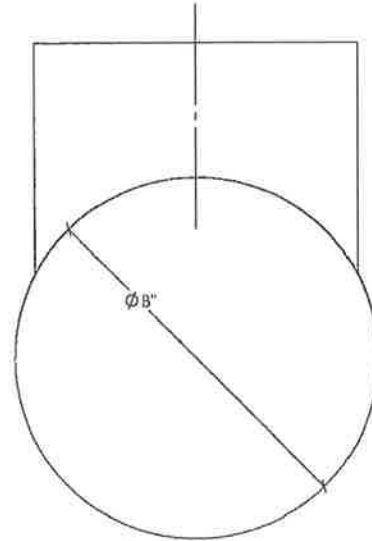
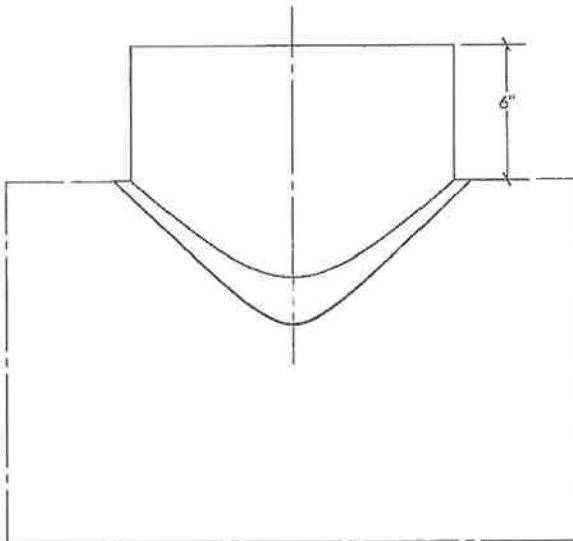
	NAME	DATE
DRAWN	CJS	2009
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

<i>Spunstrand Inc.</i>		
<b>TEE</b>		
SIZE <b>A</b>	DWG. NO. Underslab FRP	REV.





**A onto B**



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		TOLERANCES:
		FRACTIONAL ±
		ANGULAR: MACH ± BEND ±
		TWO PLACE DECIMAL ±
		THREE PLACE DECIMAL ±
		MATERIAL
		FINISH
NEXT ASSY	USED ON	
APPLICATION	DO NOT SCALE DRAWING	

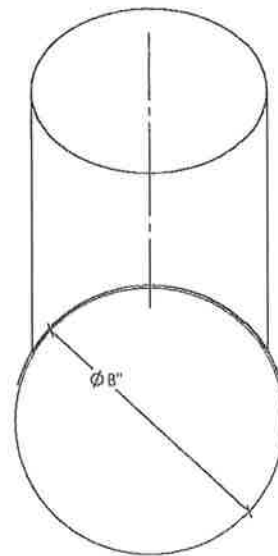
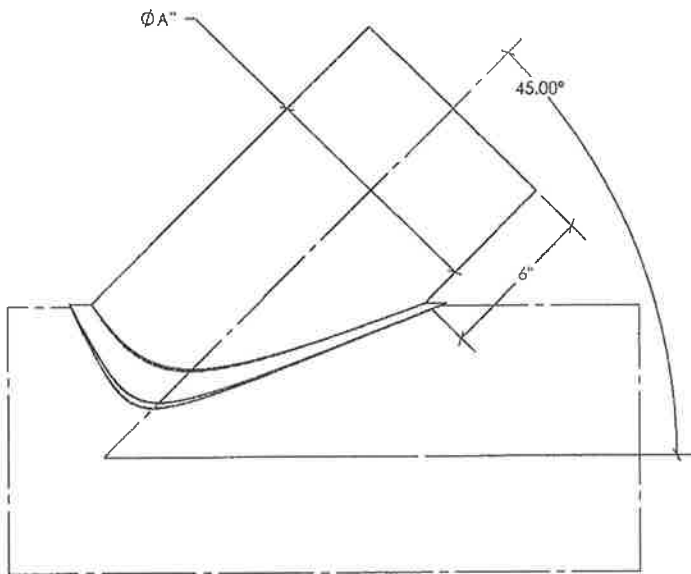
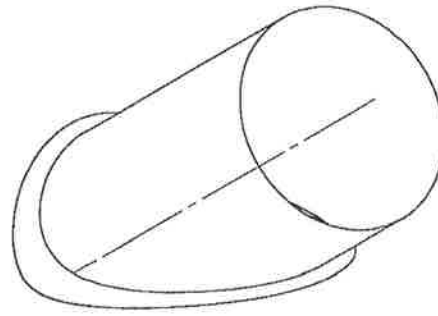
	NAME	DATE
DRAWN	CJS	2009
CHECKED		
ENGR APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

*Spunstrand Inc.*

**90deg Saddle Tap**

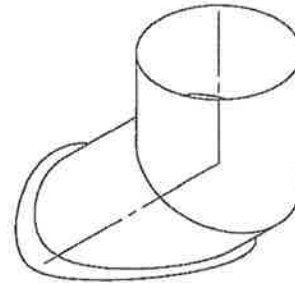
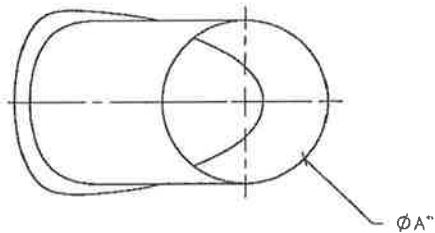
SIZE **A** DWG. NO. **Underlab FRP** REV.

**A onto B**

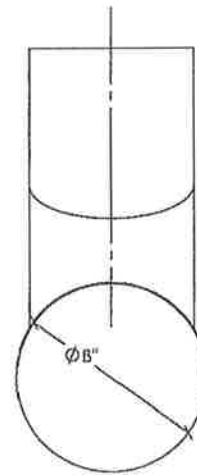
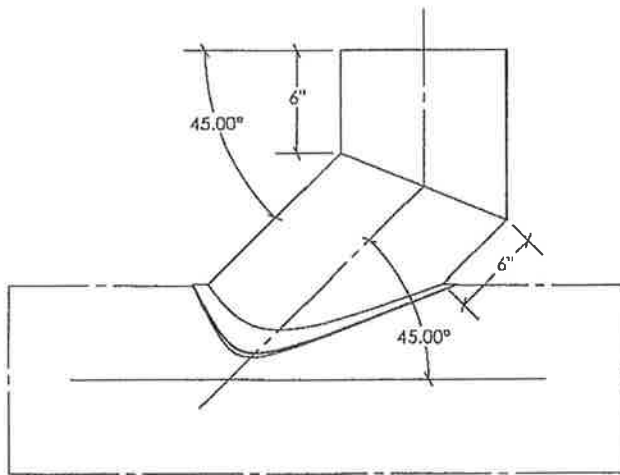


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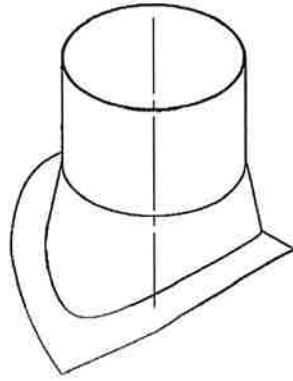
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		TOLERANCES:		DRAWN	CJS		
		FRACTIONAL ±		CHECKED			<b>45deg Saddle Tap</b>
		ANGULAR: MACH ± BEND ±		END APPR.			
		TWO PLACE DECIMAL ±		MFG APPR.			
		THREE PLACE DECIMAL ±		Q.A.			
		MATERIAL		COMMENTS:			SIZE <b>A</b>
NEXT ASSY	USED ON	FINISH					
APPLICATION		DO NOT SCALE DRAWING		DWG. NO. Underslab FRP			REV.



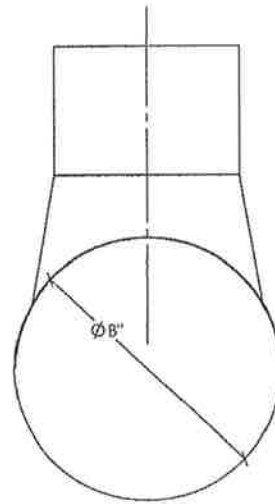
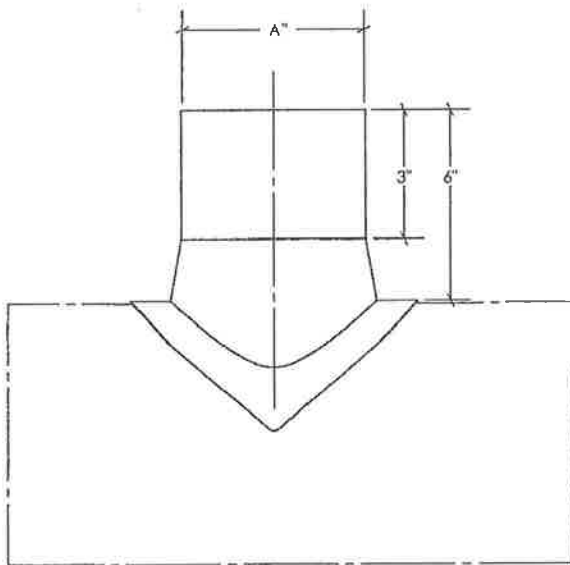
**A onto B**



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				MATERIAL		CHECKED				
				FINISH		Q.A.		COMMENTS:		
		NEXT ASSY	USED ON	APPLICATION		DO NOT SCALE DRAWING		SIZE <b>A</b>	DWG. NO.	Underslab FRP



**A onto B**

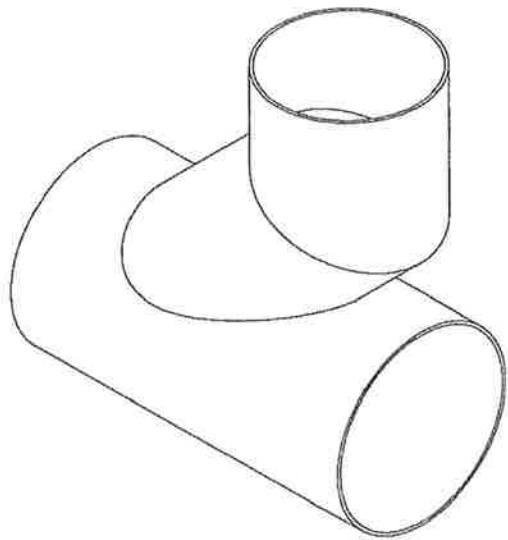


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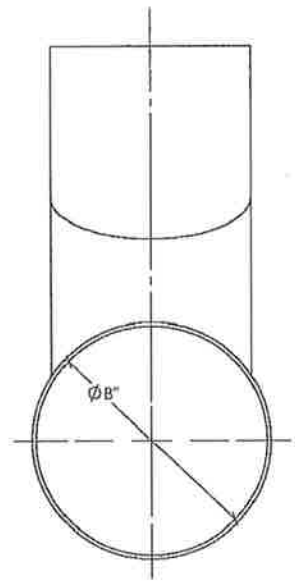
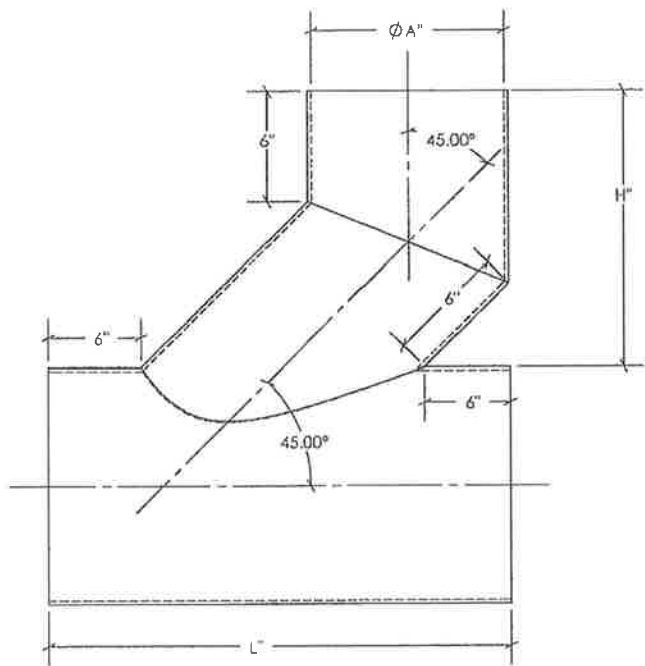
		DIMENSIONS ARE IN INCHES		NAME	DATE	<i>Spunstrand Inc.</i>
		TOLERANCES:		DRAWN	CJS	
		FRACTIONAL ±		CHECKED		
		ANGULAR: MACH ± BEND ±		ENG APPR.		
		TWO PLACE DECIMAL ±		MFG APPR.		
		THREE PLACE DECIMAL ±		Q.A.		
		MATERIAL		COMMENTS:		
		FINISH				
NEXT ASSY	USED ON					SIZE <b>A</b> DWG. NO. Understab FRP REV.
APPLICATION		DO NOT SCALE DRAWING				







90 DEGREE LATERAL		
"A" DIAMETER	L	H
4	17 2/3	12
5	19	12 1/3
6	20 1/2	12 3/4
7	21 8/9	13 1/7
8	23 1/3	13 4/7
9	24 3/4	14
10	26 1/7	14 2/5
12	29	15 2/9
14	31 7/8	16
16	34 5/8	16 7/8
18	37 1/2	17 5/7
20	40 1/4	18 1/2
22	43 1/8	19 1/3
24	46	20 1/5
26	48 3/4	21
28	51 5/8	21 6/7
30	54 1/2	22 2/3
32	57 1/4	23 1/2
34	60	24 1/3
36	63	25 1/6
38	65 3/4	26
40	68 5/8	26 5/6
42	71 1/4	27 2/3
44	74 1/4	28 1/2
48	79.872	30 1/8
52	85 1/2	31 4/5
54	88 3/8	32 5/8
60	96 7/8	35 1/9
72	113 7/8	40



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DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	
MATERIAL	
FINISH	
NEXT ASSY	USED ON
APPLICATION	DO NOT SCALE DRAWING

NAME	DATE
DRAWN CJS	2009
CHECKED	
ENG APPR.	
MFG APPR.	
Q.A.	
COMMENTS:	

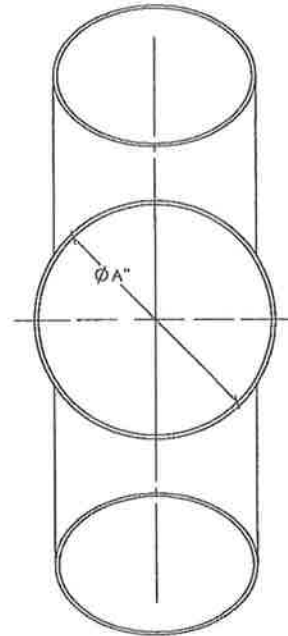
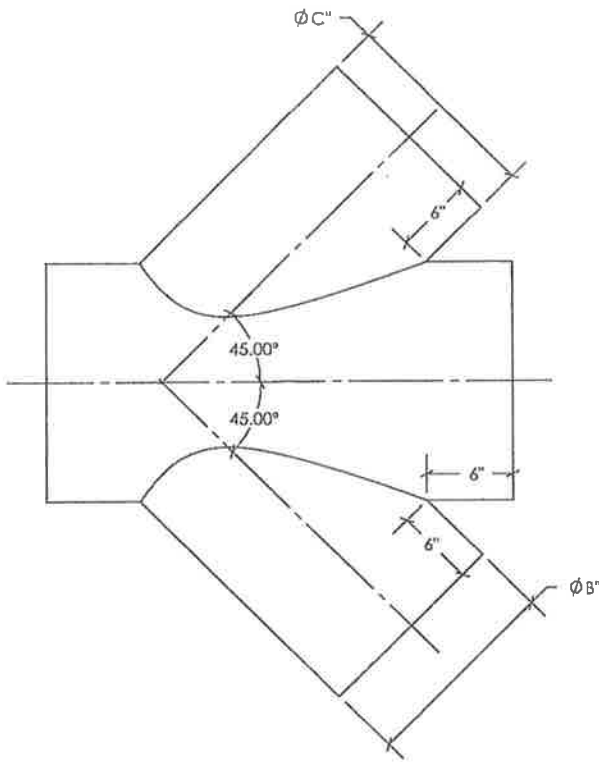
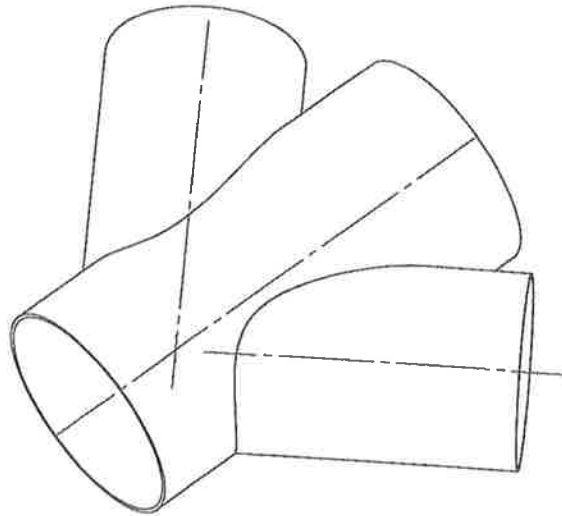
*Spunstrand Inc.*

**90deg Lateral**

SIZE **A** DWG. NO. Under slab FRP REV.

\*72" and larger diameter ductwork is not included in ICC-ES listing.

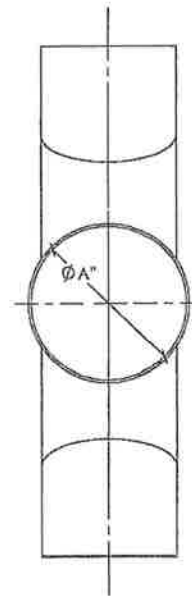
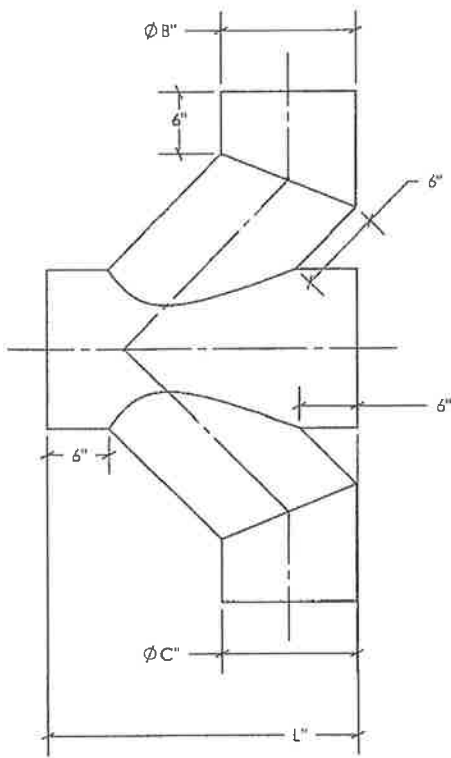
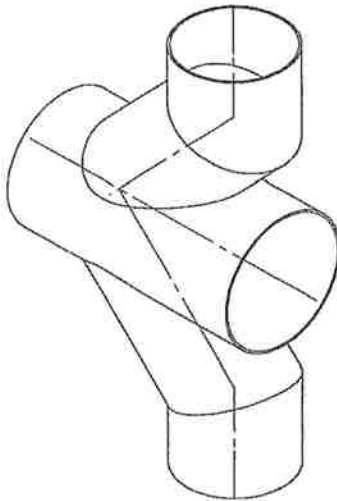
A x B x C



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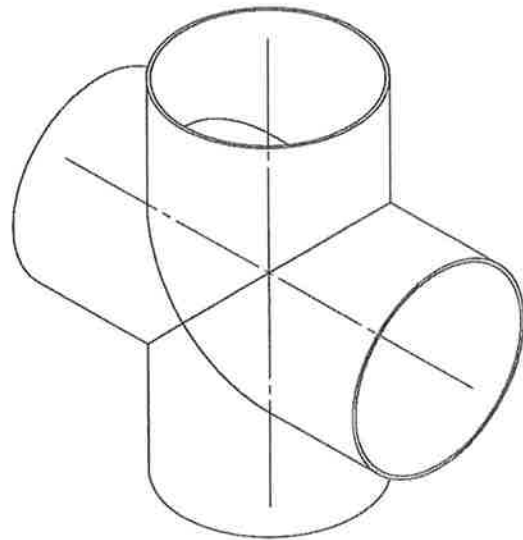
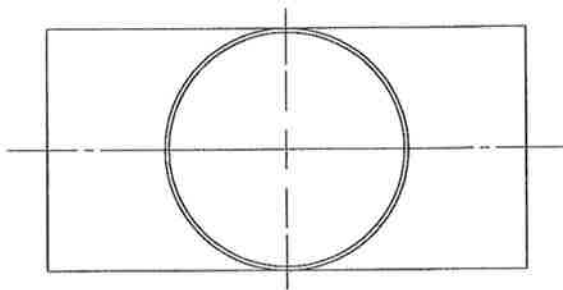
				NAME	DATE	<i>Spunstrand Inc.</i>
				DRAWN	CJS 2009	
				CHECKED		Double 45deg Lateral
				ENGR APPR.		
				MFG APPR.		
				Q.A.		SIZE <b>A</b> DWG. NO. Underslab FRP REV.
				COMMENTS:		
	NEXT ASSY	USED ON	FINISH			
	APPLICATION		DO NOT SCALE DRAWING			





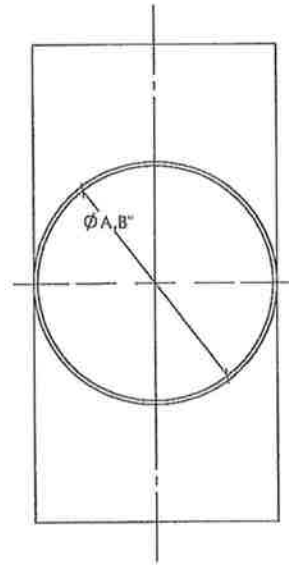
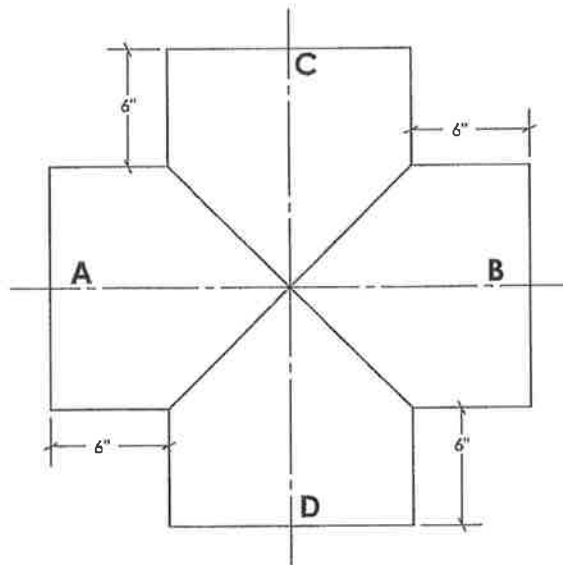
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		DIMENSIONS ARE IN INCHES		NAME	DATE	<i>Spunstrand Inc.</i>
		TOLERANCES:		DRAWN	CJS	
		FRACTIONAL ±		CHECKED		Double 90deg Lateral
		ANGULAR: MACH ± BEND ±		ENG APPR.		
		TWO PLACE DECIMAL ±		MFG APPR.		
		THREE PLACE DECIMAL ±		Q.A.		SIZE <b>A</b> DWG. NO. Underslab FRP REV.
		MATERIAL		COMMENTS:		
NEXT ASSY	USED ON	FINISH				
APPLICATION		DO NOT SCALE DRAWING				



**A x B x C x D**

A & B must be equal diameter (Primary Air Flow)  
 C diameter must be equal to or less than A,B  
 D diameter must be equal to or less than A,B



\*Reducing Crosses Available by Request\*

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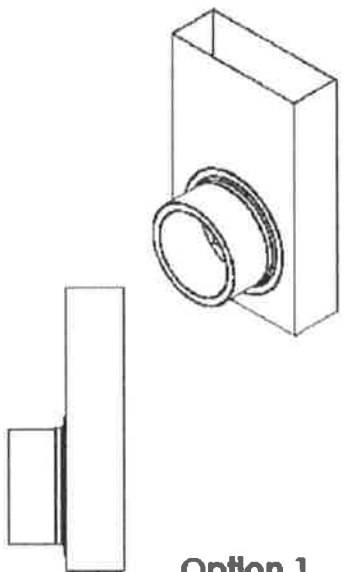
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		MATERIAL		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

	NAME	DATE
DRAWN	CJS	2009
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

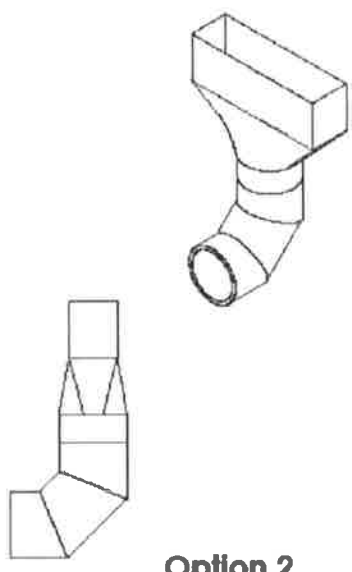
*Spunstrand Inc.*

**Cross**

SIZE **A** DWG. NO. Underslab FRP REV.



**Option 1**



**Option 2**

**CUSTOMER DRAWING APPROVAL**

\_\_\_APPROVED \_\_\_APPROVED AS NOTED

AUTHORIZED SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

THE SIGNATORY HEREBY VERIFIES THIS DRAWING TO BE CORRECT AND AUTHORIZES SPUNSTRAND INC. TO PROCEED WITH MANUFACTURING. THE SIGNATORY ASSUMES RESPONSIBILITY FOR IDENTIFYING CHANGE REQUESTS, IF ANY, TO THE PRODUCTION REPRESENTATIVE ON THE DRAWING AFTER COMMENCEMENT OF MANUFACTURING AND RECOGNIZES THAT SAID CHANGES MAY RESULT IN ADDITIONAL CHARGES.

COMMENTS:

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 DECIMALS: FRACTIONS:  
 ANGULAR: MATCH 00ND 3  
 TWO PLACE DECIMAL 2  
 THREE PLACE DECIMAL 3

CONSTRUCTION  
 User: \_\_\_\_\_  
 User: \_\_\_\_\_  
 User: \_\_\_\_\_

UNLESS OTHERWISE SPECIFIED:	NAME	DATE
DRAWN	CJS	8/25/10
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

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**Spunstrand Inc.**

TITLE  
 Spunstrand FRP Register Boot Options

SIZE DWG. NO. REV  
**A** Reg Boot Options

DO NOT SCALE DRAWING SHEET 1 OF 1

3 4 3 2 1