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**DIMENSIONAL DATA**

**FSK COMMERCIAL**

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**Spunstrand**  
*Green duct that works*

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

**FSK (Non-Insulated) Duct and Fittings –  
Shipping Weights OUTSIDE DIAMETER FOR FSK DUCT  
Tolerance +/- 1/4"**

	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. REDUCER (lbs)	ECC. REDUCER (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)	TRANSITION (lbs)	FLANGE (lbs)
4	0.9	1	2	-	-	1	1	1	2	1	2	4	1	1	3	2
5	1.1	1	2	1	1	1	2	2	3	3	3	5	2	1	4	2
6	1.2	2	3	2	3	2	2	3	4	3	4	6	2	1	4	3
7	1.4	2	3	2	3	2	2	3	4	3	4	6	2	1	5	3
8	1.6	2	4	2	3	2	3	4	5	4	5	7	3	1	6	4
9	1.7	3	5	3	4	3	4	5	7	5	7	11	4	2	6	4
10	1.9	3	5	3	4	3	4	6	8	5	8	12	4	2	7	5
12	2.2	4	7	3	4	4	6	8	10	7	10	16	7	3	9	6
14	2.5	5	9	4	5	5	7	10	13	8	13	19	8	4	10	6
16	3.8	8	14	5	7	6	10	14	18	12	18	28	11	4	12	7
18	4.2	9	16	5	7	8	12	18	23	14	23	35	14	6	16	8
20	4.6	11	18	6	8	9	14	21	27	16	27	41	16	6	18	9
22	6.2	13	23	8	10	11	19	29	37	22	37	53	21	8	30	15
24	6.7	15	26	8	10	12	22	33	42	25	42	60	24	8	34	16
26	7.2	18	32	10	13	15	27	42	53	30	54	76	31	11	40	18
28	9.2	21	37	11	14	17	33	52	65	37	66	92	37	12	45	19
30	9.8	23	40	12	16	19	36	58	72	41	74	102	41	13	52	21
32	10.4	25	45	13	17	21	41	65	80	46	83	113	47	15	58	22
36	13.6	32	58	16	21	27	55	89	108	61	113	151	63	19	65	25
42	20.3	64	115	29	38	50	110	183	221	121	233	309	127	35	88	38
48	25.6	76	139	34	44	55	141	239	283	154	302	391	162	39	110	43
54	31.7	101	184	42	55	74	190	327	386	206	414	531	222	52	125	49
60	37.8	131	240	50	65	95	246	426	504	265	542	693	287	67	141	54
*72	58.9	213	398	78	102	118	493	768	890	463	970	1212	507	82	206	81

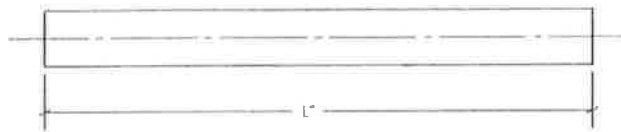
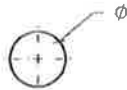
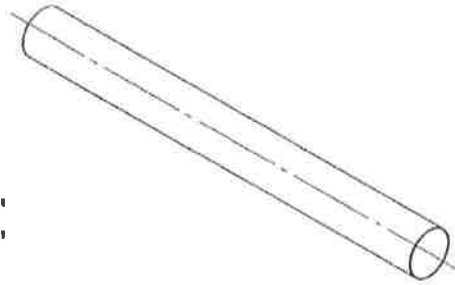
*\*72" and larger diameter ductwork is not included in the ICC-ES listing.*

**OUTSIDE DIAMETER FOR FSK DUCT**  
Tolerance +/- 1/4"

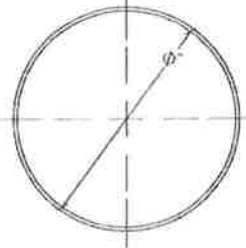
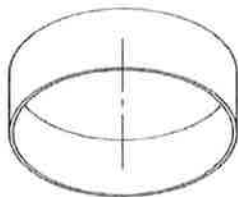
INSIDE DIAMETER (Inches)	INNER WALL		FSK OUTSIDE DIAMETER
	# of PLYS	WALL THICKNESS	
4	3	0.0675	4.14
5	3	0.0675	5.14
6	3	0.0675	6.14
7	3	0.0675	7.14
8	3	0.0675	8.14
9	3	0.0675	9.14
10	3	0.0675	10.14
12	3	0.0675	12.14
14	3	0.0675	14.14
16	4	0.0900	16.18
18	4	0.0900	18.18
20	4	0.0900	20.18
22	5	0.1125	22.23
24	5	0.1125	24.23
26	5	0.1125	26.23
28	6	0.1350	28.27
30	6	0.1350	30.27
32	6	0.1350	32.27
36	8	0.1800	36.36
42	9	0.2025	42.41
48	10	0.2250	48.45
54	12	0.2700	54.54
60	13	0.2925	60.59
70	15	0.3375	70.68
*72	15	0.3375	72.68
<i>*72" and larger diameter ductwork is not included in the ICC-ES listing.</i>			

### Straight Duct

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



### End Cap



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		DIMENSIONS ARE IN INCHES. FRACTIONALS: ANGULAR: MACHINING TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±
		MATERIAL
		FINISH
NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING

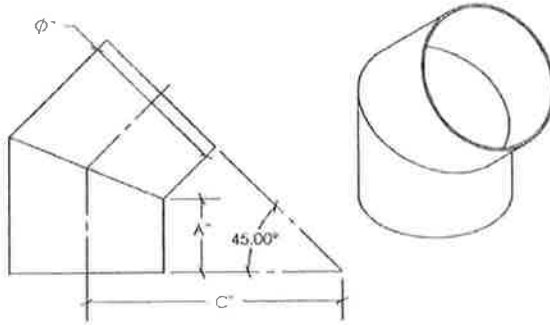
	NAME	DATE
DRAWN	CJS	2009
CHECKED		
ENG APPR.		
MFG APPR.		
QA		
COMMENTS		

*Spunstrand Inc.*

## Duct

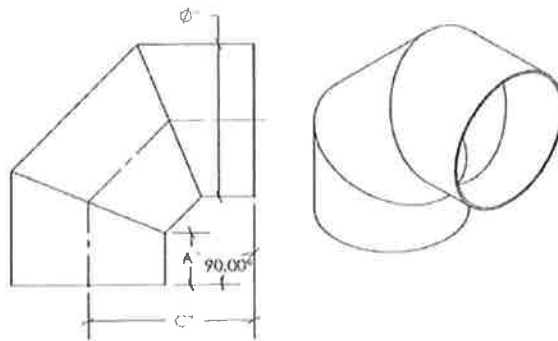
QWG. 110      Underslab FRP      REV

### 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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		MATERIAL			
		Finish			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

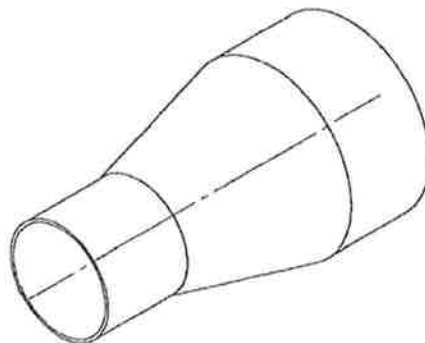
	NAME	DATE
DRAWN	C.S	2/09
CHECKED		
ENG APPR		
MFG APPR		
QA		
COMMENTS		

**Spunstrand Inc.**

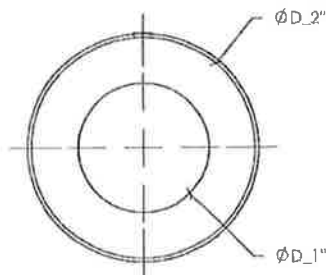
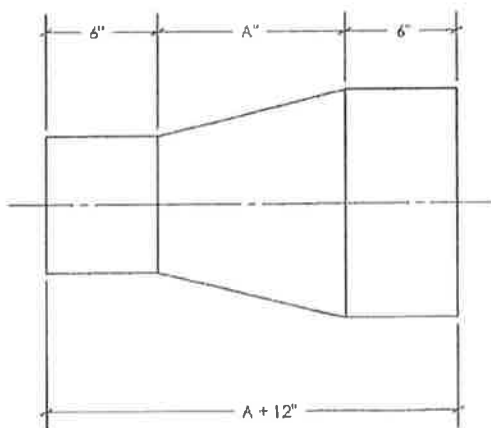
## Elbows

100	DWG. NO.	Underslab FRP	REV
<b>A</b>			

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"

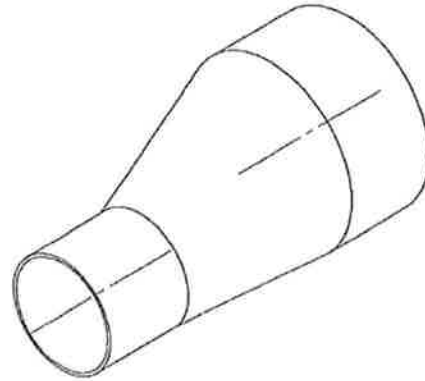


Inches of Reduction = D<sub>2</sub> - D<sub>1</sub>

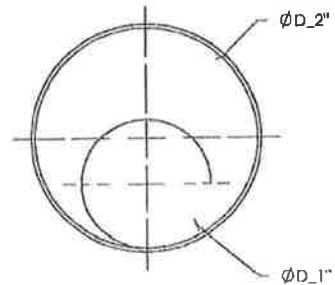
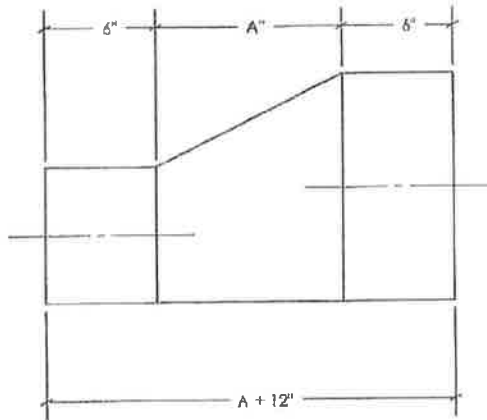


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				DRAWN	CJS		2009
				CHECKED			
				ENG APPR			
				MFG APPR			
				Q.A.			
				COMMENTS:			
	NEXT ASSY	USED ON	FRSH			SIZE	
	APPLICATION		DO NOT SCALE DRAWING			DWG. NO	
						Under slab FRP	
						REV.	

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<sub>2</sub> - D<sub>1</sub>



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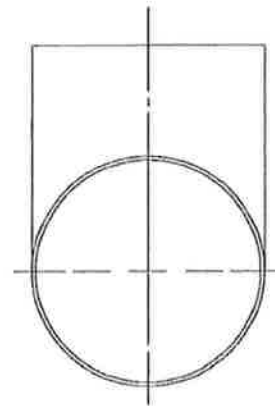
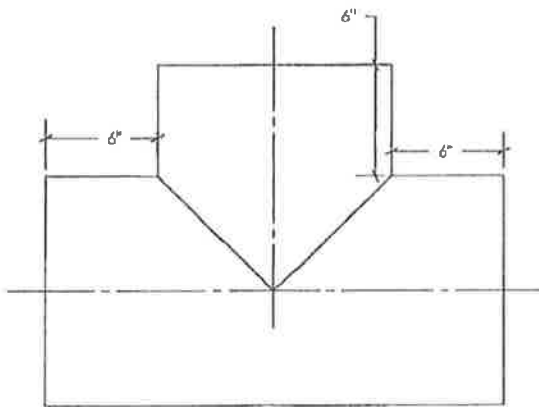
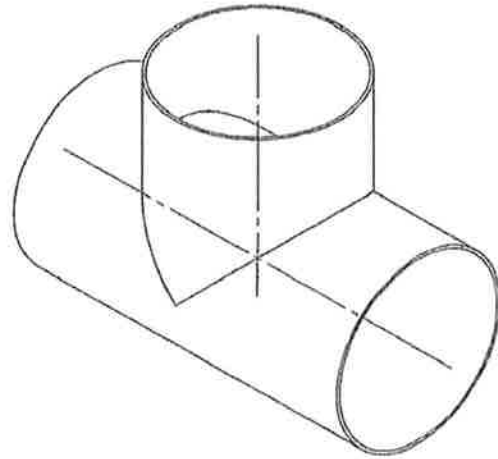
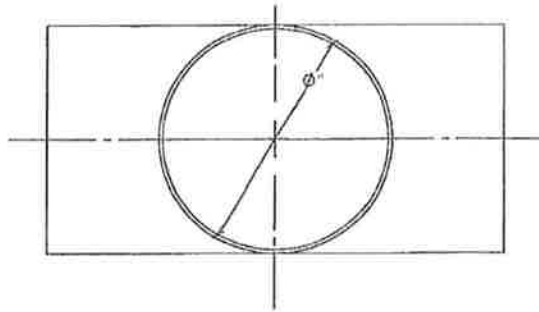
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		TOLERANCES:	
		FRACTIONAL ±	
		ANGULAR: MACH ± BEND ±	
		TWO PLACE DECIMAL ±	
		THREE PLACE DECIMAL ±	
		MATERIAL:	
NEXT ASSY	USED ON	FINISH	
APPLICATION		DO NOT SCALE DRAWING	

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

*Spunstrand Inc.*

**Eccentric Reducer**

SIZE	DWG. NO.	Under slab FRP	REV.
<b>A</b>			



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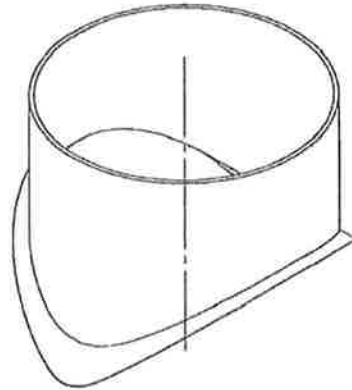
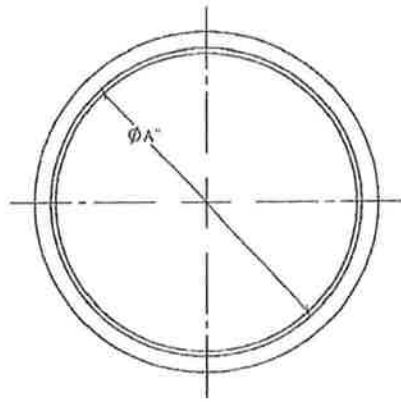
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		FRACTIONAL ±	CHECKED		
		ANGULAR: MACH ± BEND ±	ENG APPR		
		TWO PLACE DECIMAL ±	MFG APPR		
		THREE PLACE DECIMAL ±	Q.A.		
		MATERIAL	COMMENTS:		
		FINISH			
NEXT ASSY	USED ON				
APPLICATION	DO NOT SCALE DRAWING				

*Spunstrand Inc.*

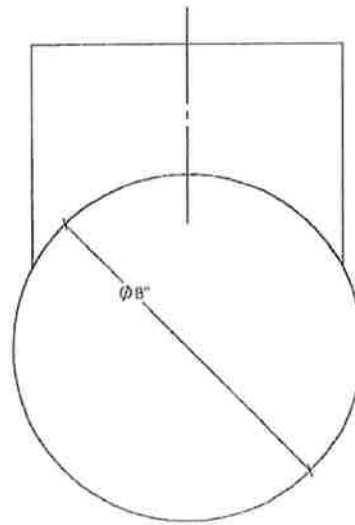
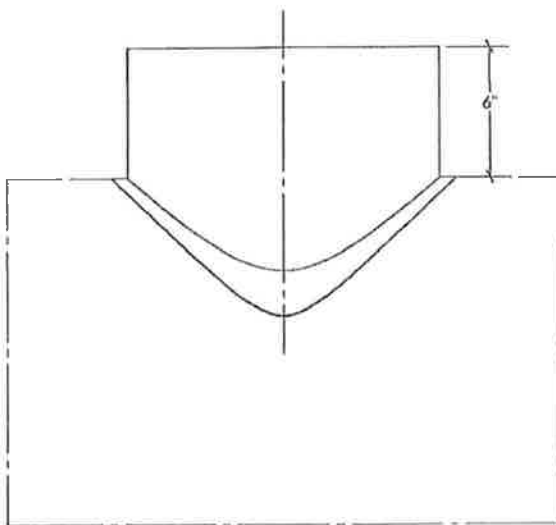
TEE

SIZE	DWG. NO.	Underlab FRP	REV.
A			



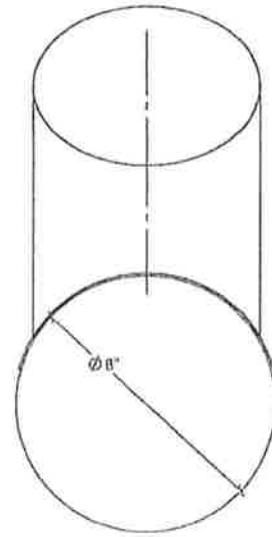
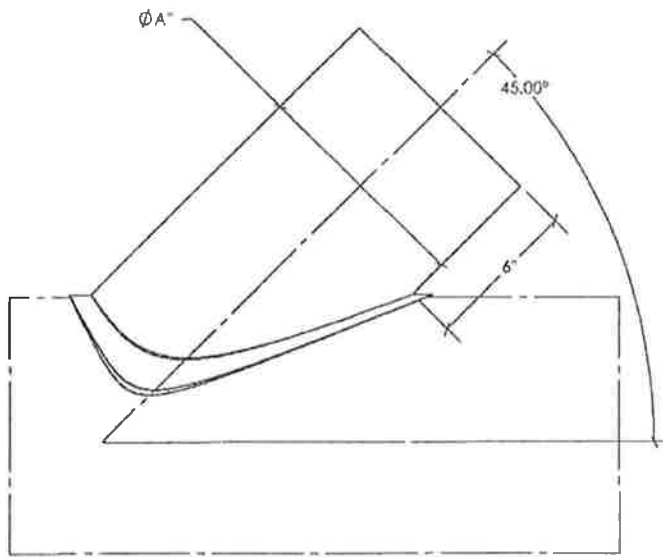
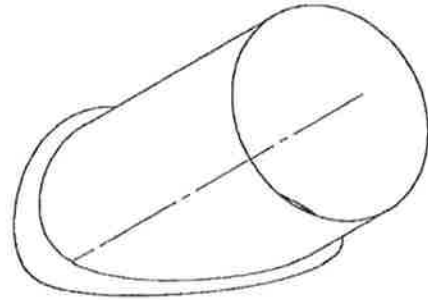


A onto B

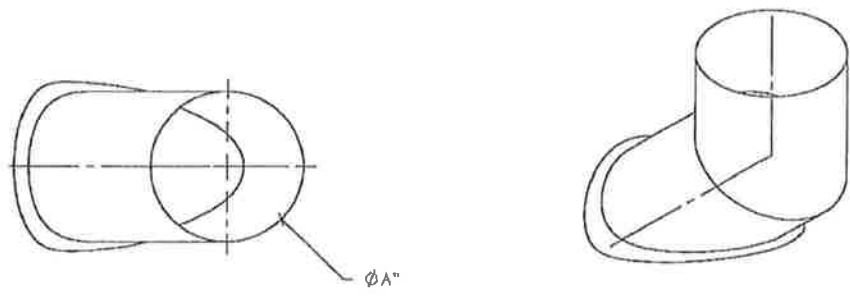


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				DRAWN	CJS		2009
				CHECKED			<p><b>90deg Saddle Tap</b></p>
				ENG APPR.			
				MFG APPR.			
		MATERIAL	FR13H	Q.A.	COMMENTS:	<p>SITE DWG. NO. Underlab FRP</p>	
	NEXT ASSY	USED ON	APPLICATION	DO NOT SCALE DRAWING		REV.	

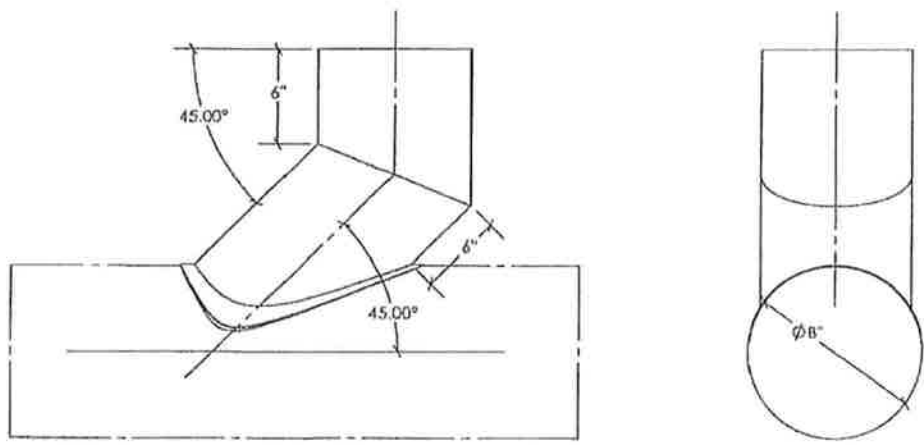
**A onto B**



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

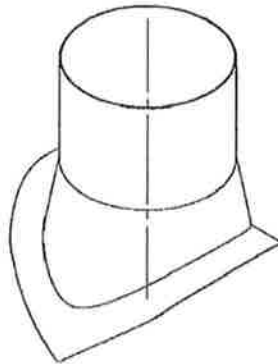


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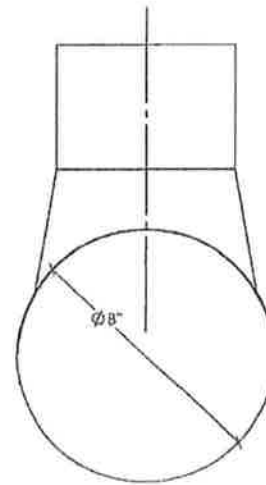
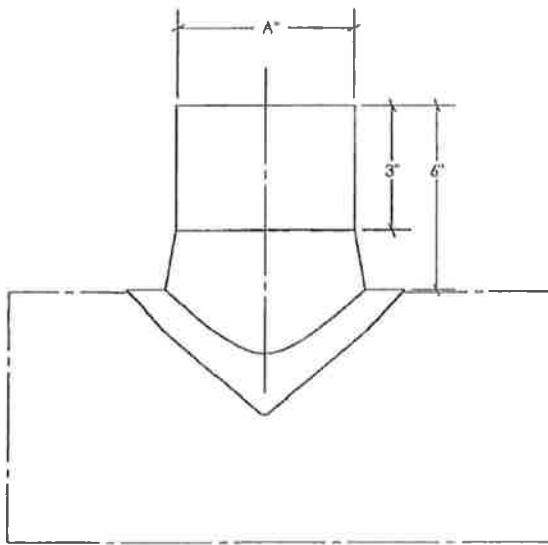


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		DIMENSIONS ARE IN INCHES		NAME	DATE	<i>Spunstrand Inc.</i>	
		TOLERANCES:		DRAWN	CJS		2009
		FRACTIONAL ±		CHECKED			
		ANGULAR: MACH ± BEND ±		ENG APPR.			
		TWO PLACE DECIMAL ±		PAFD APPR.			
		THREE PLACE DECIMAL ±		QA			
		MATERIAL		COMMENTS:		90deg Lateral Saddle Tap	
NEXT ASSY	USED ON	FINISH					
APPLICATION		DO NOT SCALE DRAWING		SIZE	DWG. NO.	Underslab FRP	
				A		REV.	

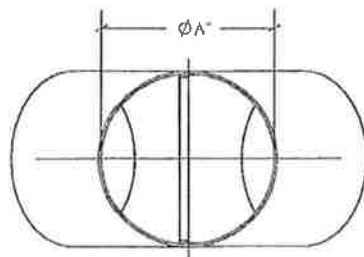
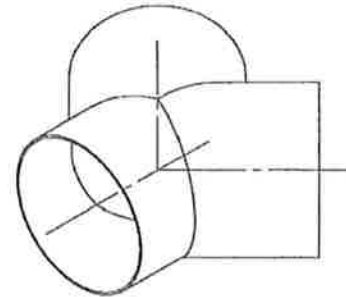
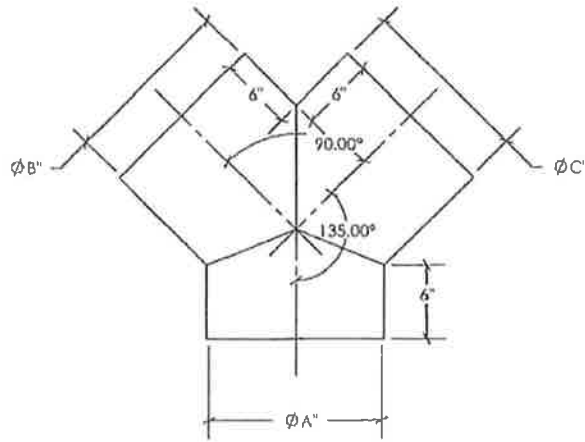


**A onto B**



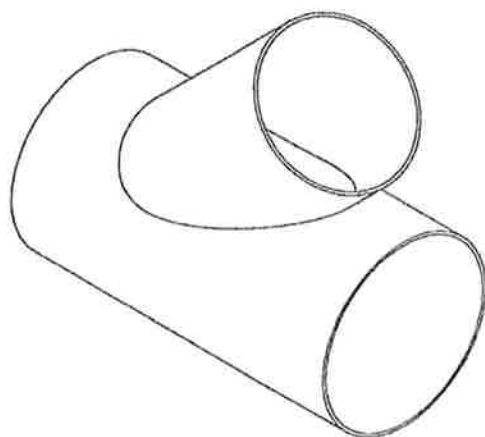
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		DIMENSIONS ARE IN INCHES		NAME	DATE	<i>Spunstrand Inc.</i>
		TOLERANCES:		DRYDRN	CJS	
		FRACTIONAL ±		CHECKED		<b>Conical Tap</b>
		ANGULAR: MATCH ± BEND ±		ENG APPR.		
		TWO PLACE DECIMAL ±		MFG APPR.		
		THREE PLACE DECIMAL ±		D.A.		
		MATERIAL		COMMENTS:		SEE DWG. NO. Underlab FRP
NEXT ASSY	USED ON	FRISH				
APPLICATION		DO NOT SCALE DRAWING				REV.



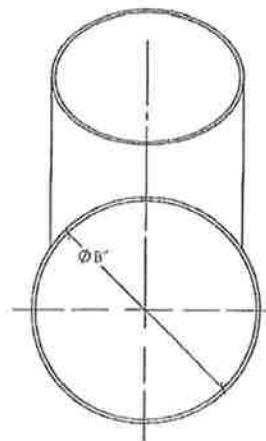
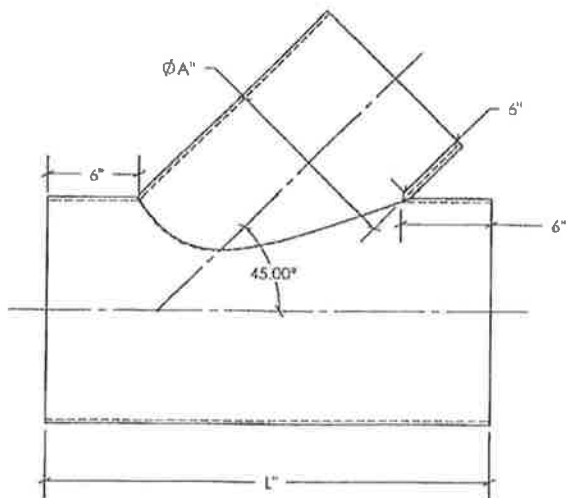
**A x B x C**

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			MATERIAL	DRAWN	CJS		2007
			FINISH	CHECKED			
				ENG APPR.			
				MFG APPR.			
	NEXT ASSY	USED ON	COMMENTS:	D.A.			
	APPLICATION	DO NOT SCALE DRAWING					
				SIZE	DWG NO.	REV.	
				<b>A</b>	Underslab FRP		



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

A x B



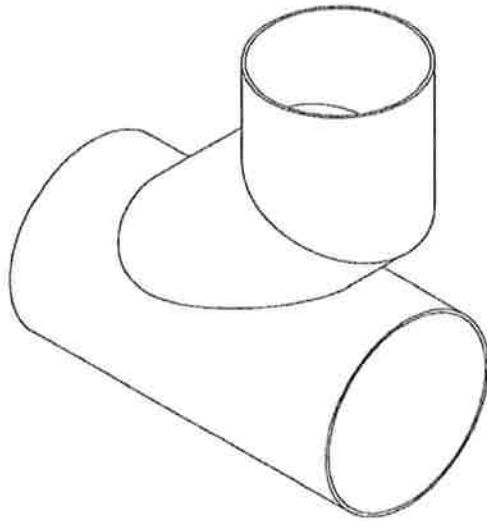
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WITHOUT THE WRITTEN PERMISSION OF  
SPUNSTRAND INC. IS PROHIBITED.

		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR; MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	NAME	DATE	
			DRAWN	CJS	2009
			CHECKED		
			ENG APPR.		
			Q.A.		
			COMMENTS		
NEXT ASSY	USED ON	MATERIAL			
		FINISH			
APPLICATION		DO NOT SCALE DRAWING			

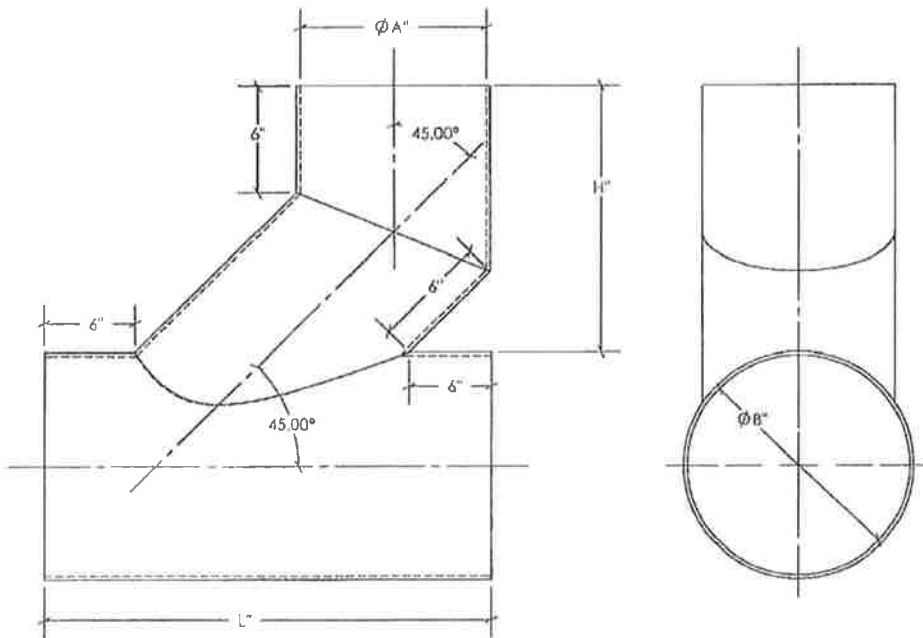
*Spunstrand Inc.*

**45deg Lateral**

SIZE	DRG. NO.	REV.
A	Underslab FRP	



90 DEGREE LATERAL		
INCH 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	25 1/7	14 2/5
12	28	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	45	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 1/5
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	

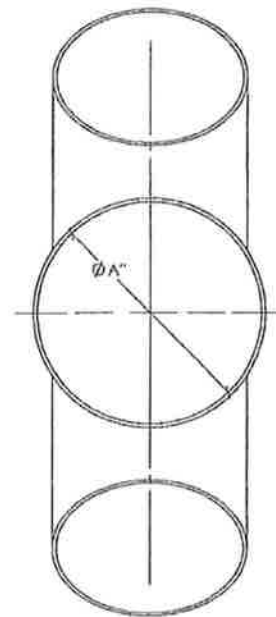
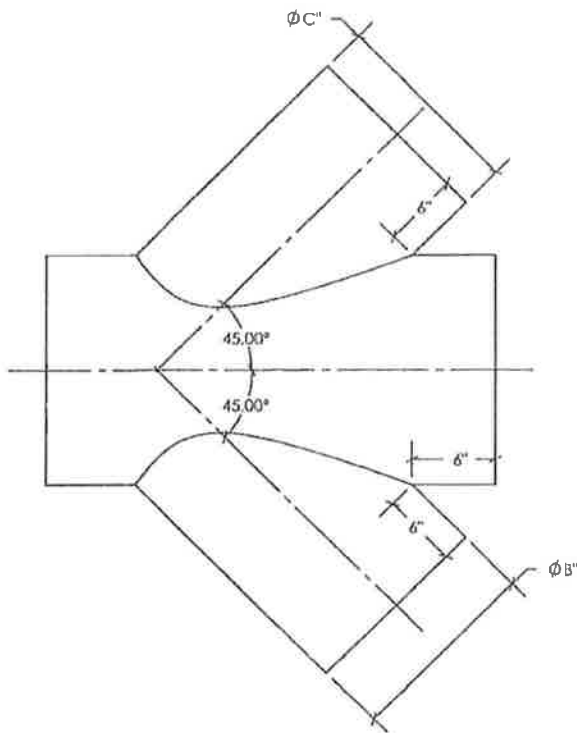
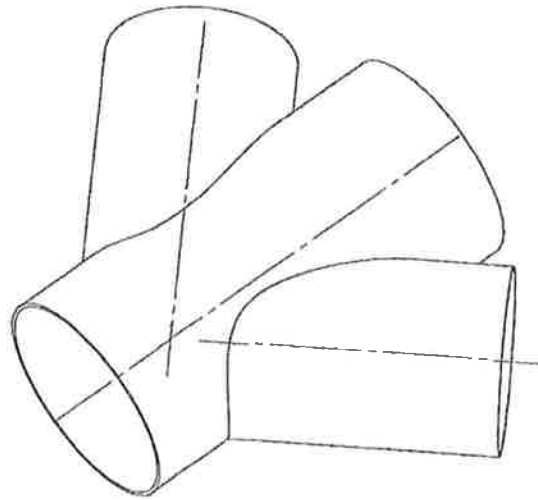
	NAME	DATE
DRAWN	CJS	2009
CHECKED		
ENG APPR		
MFG APPR		
Q.A.		
COMMENTS:		

*Spunstrand Inc.*

**90deg Lateral**

REV	DWG. NO	REV.
A	Underslab FRP	

A x B x C

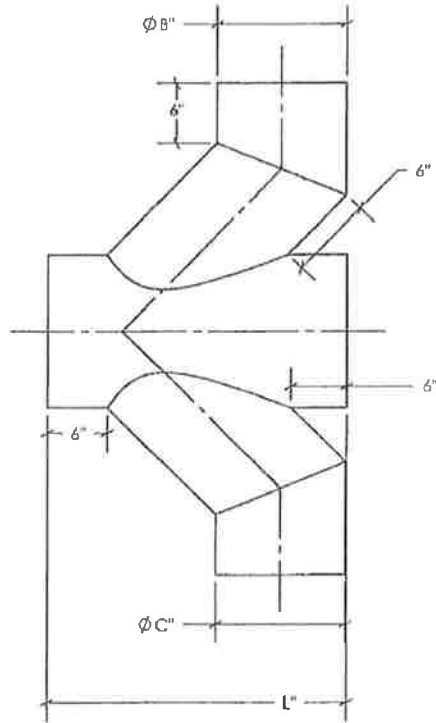
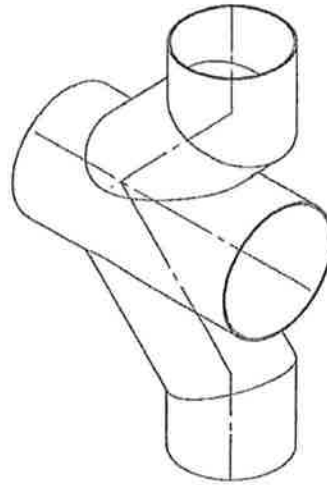


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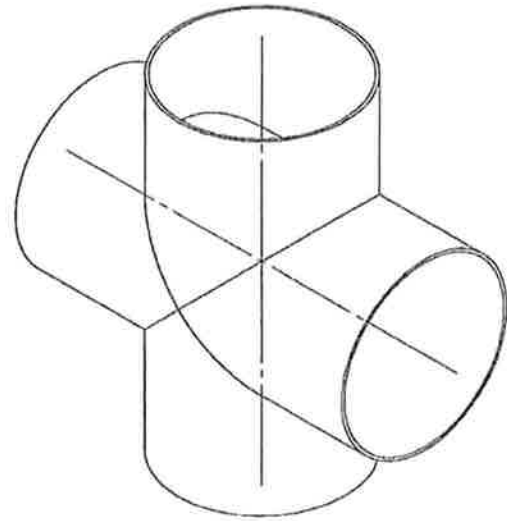
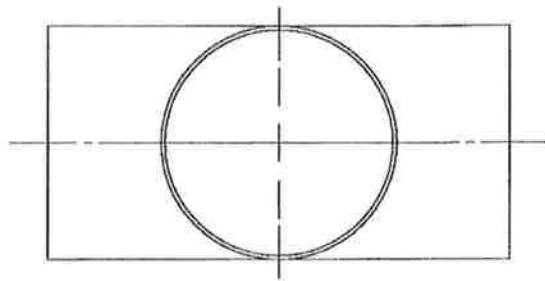
		DIMENSIONS ARE IN INCHES		NAME	DATE	<b>Spunstrand Inc.</b>
		TOLERANCES:		DRAWN	2009	
		FRACTIONAL ±		CJS		
		ANGULAR: MACH ± BEND ±		CHECKED		
		TWO PLACE DECIMAL ±		RIG APPR.		<b>Double 45deg Lateral</b>
		THREE PLACE DECIMAL ±		MFG APPR.		
		MATERIAL		Q.A.		
NEXT ASSY	USED ON	FINISH		COMMENTS:		Under slab FRP
APPLICATION	DO NOT SCALE DRAWING				REV.	

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

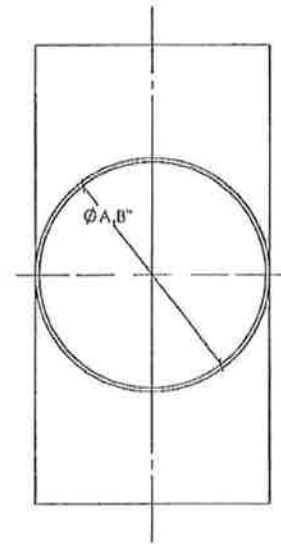
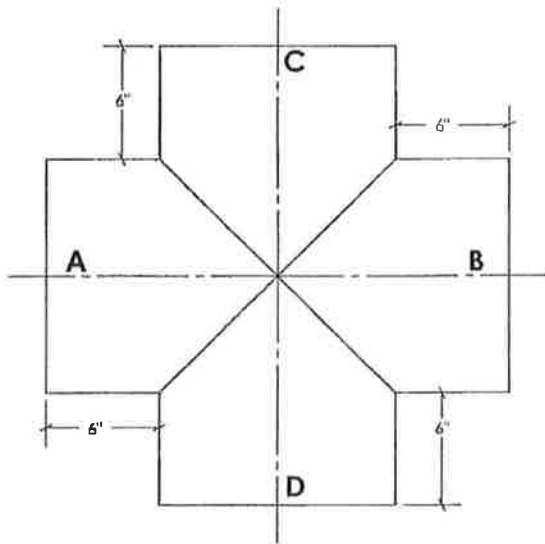




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			<p>MATERIAL</p>		<p>CHECKED</p>			
			<p>FINISH</p>		<p>ENG APPR.</p>			
			<p>COMMENTS:</p>		<p>MFG APPR.</p>			
					<p>Q.A.</p>			
		<p>NEXT ASSY</p>	<p>USED ON</p>			<p>SIZE <b>A</b></p>	<p>DWG. NO. Underslab FRP</p>	<p>REV.</p>
		<p>APPLICATION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

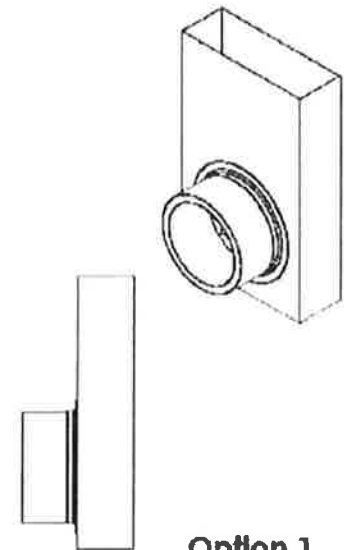


**A x B x C x D**  
**A & B must be equal diameter (Primary Air Flow)**  
**C diameter must be equal to or less than A,B**  
**D diameter must be equal to or less than A,B**

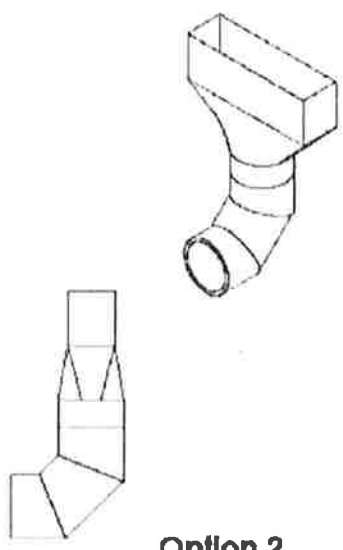


**\*Reducing Crosses Available by Request\***

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



**Option 1**



**Option 2**

					<b>Spunstrand Inc.</b>
<b>CUSTOMER DRAWING APPROVAL</b> ___APPROVED___ APPROVED AS NOTED	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES FRACTIONS ANGLES MAXIMUM 30 DEGREES TWO PLACE DECIMAL THREE PLACE DECIMAL	DRAWN CHECKED ENG APPR MFG APPR Q.A.	NAME C.J.S.	DATE 8/25/10	TITLE Spunstrand FRP Register Boot Options
COMMENTS	AUTHORIZED SIGNATURE _____ DATE _____ <small>THE SIGNATORY HEREBY VERIFIES THIS DRAWING TO BE CORRECT AND ACCURATE. SPUNSTRAND INC. IS NOT RESPONSIBLE FOR DIMENSIONAL CHANGES MADE TO THIS DRAWING AFTER COMMENCEMENT OF MANUFACTURING AND DELIVERY OF THE SAID CHANGES MAY RESULT IN ADDITIONAL CHARGES.</small>	DESIGNER _____ DATE REVISION _____ REVISION _____	<b>PROPRIETARY AND CONFIDENTIAL</b> THIS DRAWING IS THE SOLE PROPERTY OF SPUNSTRAND INC. AND ANY REPRODUCTION WITHOUT THE WRITTEN PERMISSION OF SPUNSTRAND INC. IS PROHIBITED.		SIZE <b>A</b> DWG. NO. <b>Reg Boot Options</b> REV _____
5	4	3	2	1	DO NOT SCALE DRAWING SHEET 1 OF 1