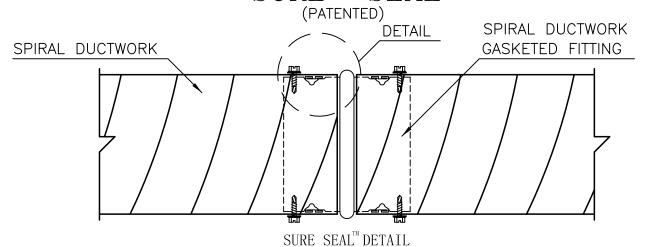
SUBMITTAL SURE • SEAL

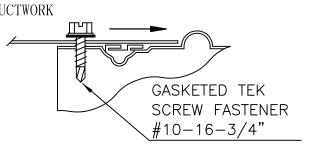


SINGLE WALL SPIRAL DUCTWORK

SURE SEAL™ GASKET

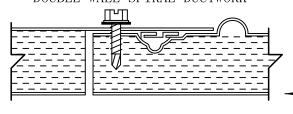
SPIRAL DUCTWORK

GASKETED FITTING



SURE SEAL[™] DETAIL
DOUBLE WALL SPIRAL DUCTWORK

INTERNAL INSULATION
1" THICK/1LB. DENSITY

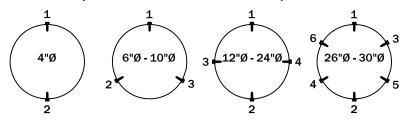


INNER LINER
PERFORATED/
SOLID INNER

PROFILE EPDM RUBBER GASKET



DIAGRAM BELOW SHOWS TEK SCREW QUANTITY AND PLACEMENT SEQUENCE



SURE SEAL [®] SPIRAL DUCTWORK 4"-30" ROUND DUCTWORK GAUGE UNREINFORCED POSITIVE PRESSURE TO 10" W.G.						
DIAMETER	FITTING	DIAMETER	SPIRAL			
4"-20"	24 GAUGE	4"-24"	26 GAUGE			
21"-30"	22 GAUGE	25"-30"	24 GAUGE			

MATERIAL, GALVANIZED, GALVANNEALED, STAINLESS STEEL, PVC COATED.

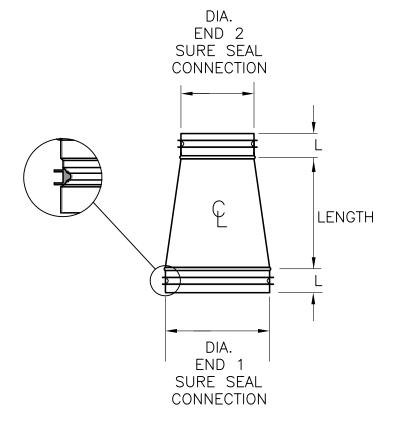
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#52 ELBOWS

*SPECIFY CUSTOM_DEGR	EE				
& CENTERLINE RAI	DIUS	90 D	EGREE		DIA.
					END 1 SURE SEAL CONNECTION
SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :					+ CENTERLINE RADIUS
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS			E	DIA. ND 1 E SEAL	
TRANSVERSE JOINT SMALL END SLIP CONNECTION				NECTION	
3"-11" DIA. L=2 1/2 <u>+</u> 12"-20" DIA. L=2 7/8"+ 22"-36" DIA. L=3 1/4"+	TAG	0	TY.	DEGREE	DIA END 1
<u>LONGITUDINAL SEAMS</u> LAP, SPOTWELD AND SEAL	<u></u>				
RL-2					
GORE LOCK 14" DIA. AND LARGER					
<u>CENTERLINE RADIUS</u> 1-1/2 X DIAMETER					
GORE AMOUNT 0-22 DEGREE = 2 GORE					
23-45 DEGREE = 3 GORE 46-60 DEGREE = 4 GORE 61-90 DEGREE = 5 GORE					

#57 CONCENTRIC REDUCER

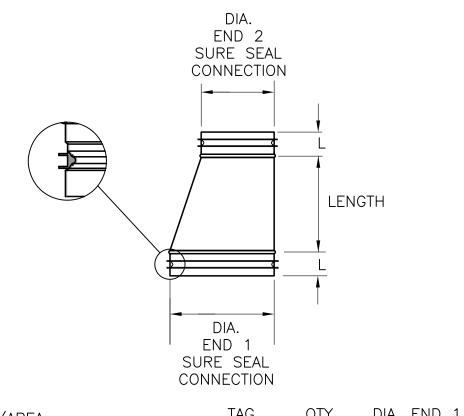


SYSTEM NUMBER/AREA :	<u>TAG</u>	QTY.	DIA. END 1	DIA END 2
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS				
TRANSVERSE JOINT				
SMALL END SLIP CONNECTION				
$3"-11"$ DIA. L=2 $1/2$ \pm 12"-20" DIA. L=2 $7/8$ " \pm 22"-36" DIA. L=3 $1/4$ " \pm				
LONGITUDINAL SEAMS				
LAP, SPOTWELD AND SEAL				
RL-2				
LENGTH (4" MINIMUM)				

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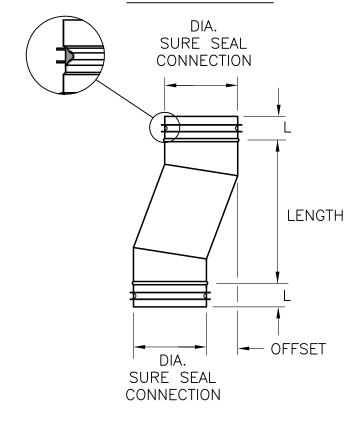
END 1 - END 2

#69 ECENTRIC REDUCER



SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	<u>TAG</u>	<u>QTY.</u>	DIA. END 1	DIA END 2
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS				
TRANSVERSE JOINT				
SMALL END SLIP CONNECTION				
3"-11" DIA. L=2 1/2 <u>+</u> 12"-20" DIA. L=2 7/8"+				
22"-36" DIA. L=3 $1/4$ " \pm				
LONGITUDINAL SEAMS				
LAP, SPOTWELD AND SEAL				
RL-2				
<u>LENGTH (4" MINIMUM)</u> (FND 1 - FND 2) x 2				

#53 OFFSET

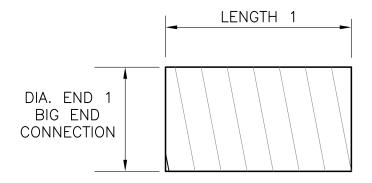


SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	<u>TAG</u>	QTY.	DIA.	<u>OFFSET</u>
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS				
TRANSVERSE JOINT SMALL END SLIP CONNECTION				
3"-11" DIA. L=2 1/2 <u>+</u> 12"-20" DIA. L=2 7/8" <u>+</u> 22"-36" DIA. L=3 1/4" <u>+</u>				
<u>LONGITUDINAL SEAMS</u> LAP, SPOTWELD AND SEAL				
RL-2				
LENGTH (6" MINIMUM)				

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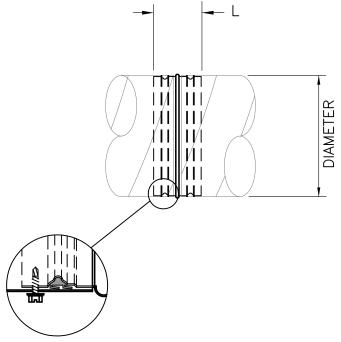
OFFSET X 2

#100S SPIRAL DUCTWORK



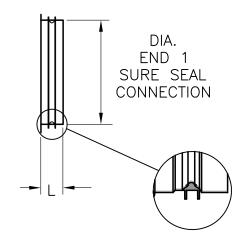
SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	<u>IAG</u>	<u>QIY.</u>	DIA. END 1	LENGIH 1
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS				
TRANSVERSE JOINT BIG END RAW CONNECTION				
LONGITUDINAL SEAM SPIRAL SEAM				
RL-1				
<u>LENGTH 1</u> = 10' MAX. 14" MIN. SPECIAL LENGTHS AVALIABLE UPON REQUEST				

SPIRAL COUPLING



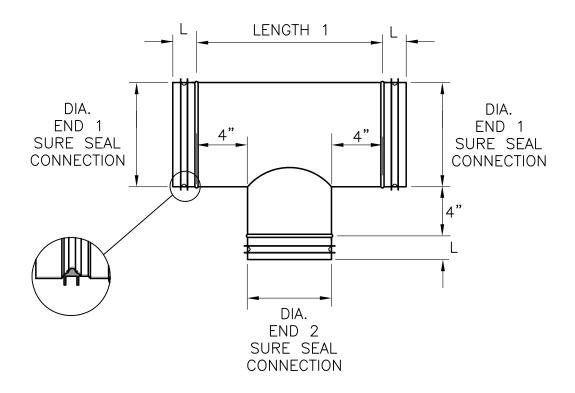
SYSTEM NUMBER/AREA : MATERIAL TYPE :	QTY.	DIAMETER
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS		
TRANSVERSE JOINT		
SMALL END SLIP CONNECTION		
$3"-11"$ DIA. L=5 $1/2\frac{\pi}{2}$ 12"-20" DIA. L=6 $1/4\frac{\pi}{2}$ 22"-36" DIA. L=7" \pm		
LONGITUDINAL SEAMS LAP, SPOTWELD AND SEAL		
RL-2		

#02 END CAP



SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	<u>TAG</u>	<u>QTY.</u>	DIA. END 1
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS			
TRANSVERSE JOINT			
SMALL END SLIP CONNECTION			
$3"-11"$ DIA. L=2 $1/2$ \pm 12"-20" DIA. L=2 $7/8$ " \pm 22"-36" DIA. L=3 $1/4$ " \pm			
22 -30 DIA. L-3 1/4 ±			
LONGITUDINAL SEAMS			
LAP, SPOTWELD AND SEAL			
RI -2			

#55 STRAIGHT 90 DEGREE TEE



SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	<u>TAG</u>	QTY.	DIA. END 1	DIA. END 2
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS				
TRANSVERSE JOINT				
SMALL END SLIP CONNECTION 3"-11" DIA. L=2 1/2± 12"-20" DIA. L=2 7/8"± 22"-36" DIA. L=3 1/4"±				
,				
<u>LONGITUDINAL SEAMS</u> LAP, SPOTWELD AND SEAL				
RL-2				

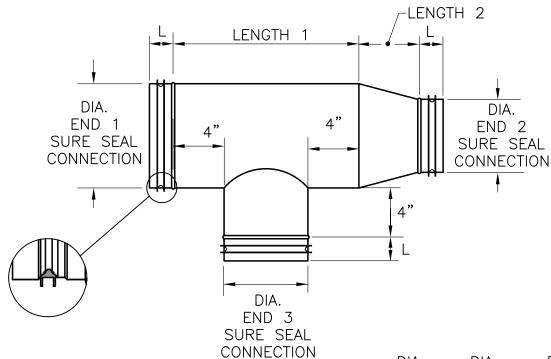
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END 2 + 8"

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LENGTH 1

#65 CONCENTRIC REDUCING TEE 90 DEGREE

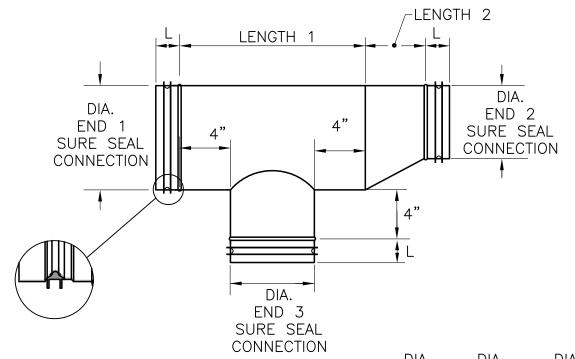


	CONN	IECTION		DIA.	DIA.	DIA.
SYSTEM NUMBER/AREA :		<u>TAG</u>	QTY.	<u>END 1</u>	END 2	END 3
MATERIAL/STATIC WG :						
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDA						
TRANSVERSE JOINT						
SMALL END SLIP CONNECTION						
$3"-11"$ DIA. L=2 $1/2\frac{+}{2}$ 12"-20" DIA. L=2 $7/8"\pm$ 22"-36" DIA. L=3 $1/4"\pm$						
LONGITUDINAL SEAMS						
LAP, SPOTWELD AND SEAL						

LENGTH 2 (4" MINIMUM) END 1 — END 2

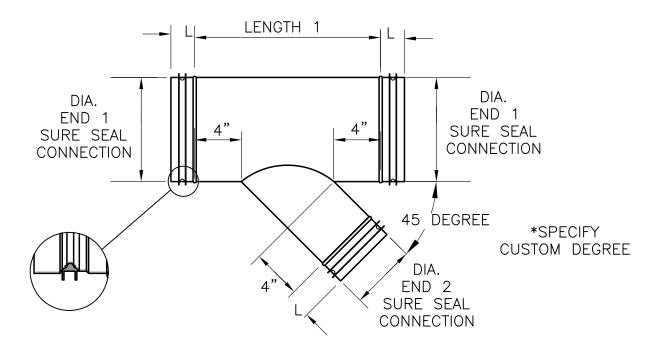
 $\frac{\text{LENGTH 1}}{\text{END 3 + 8"}}$

#65F ECCENTRIC REDUCING TEE 90 DEGREE



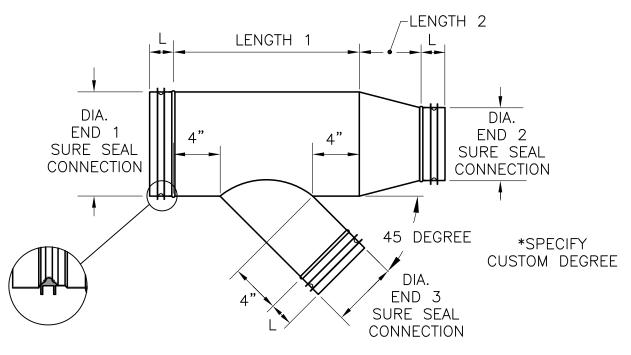
SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	<u>TAG</u>	QTY.	END 1	END 2	END 3
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS					
TRANSVERSE JOINT SMALL END SLIP CONNECTION					
3"-11" DIA. L=2 $1/2$ ± $12"-20"$ DIA. L=2 $7/8"$ ± $22"-36"$ DIA. L=3 $1/4"$ ±					
LONGITUDINAL SEAMS LAP, SPOTWELD AND SEAL					
RL-2					
" <u>LENGTH 1</u> END 3 + 8"					
LENGTH 2 (4" MINIMUM) (FND 1 - FND 2) X 2					

#54 LATERAL



SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	<u>TAG</u>	QTY.	DIA. END 1	DIA. END 2
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS				
TRANSVERSE JOINT				
SMALL END SLIP CONNECTION				
$3"-11"$ DIA. L=2 $1/2$ $\frac{+}{2}$ 12"-20" DIA. L=2 $7/8$ " $\frac{+}{2}$ 22"-36" DIA. L=3 $1/4$ " +				
LONGITUDINAL SEAMS LAP, SPOTWELD AND SEAL				
RL-2				
LENGTH 1				
45 DEGREE: DIA. END 2 X (1.41) + 8 30 DEGREE: DIA. END 2 X (2) + 8				

#63 REDUCING LATERAL

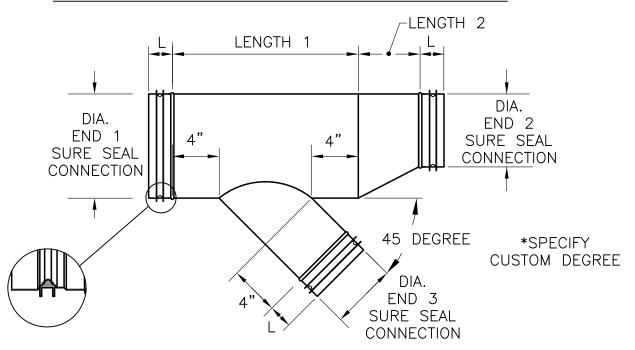


SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	<u>TAG</u>	QTY.	DIA. END 1	DIA. END 2	DIA. END 3
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS					
TRANSVERSE JOINT SMALL END SLIP CONNECTION					
$3"-11"$ DIA. L=2 $1/2$ \pm 12"-20" DIA. L=2 $7/8$ " \pm 22"-36" DIA. L=3 $1/4$ \pm					
<u>LONGITUDINAL SEAMS</u> LAP, SPOTWELD AND SEAL					
RL-2					
LENGTH 1					
45 DEGREE: DIA. END 3 X (1.41) + 8 30 DEGREE: DIA. END 3 X (2) + 8					

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LENGTH 2 (4" MINIMUM) END 1 - END 2

#63F ECCENTRIC REDUCING LATERAL



SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	<u>TAG</u>	QTY.	DIA. END 1	DIA. END 2	<u>DIA.</u> END 3
FABRICATE IN ACCORDANCE WITH					
SMACNA DUCT CONSTRUCTION STANDARDS					
TRANSVERSE JOINT SMALL END SLIP CONNECTION					
3"-11" DIA. L=2 $1/2$ " 12"-20" DIA. L=2 $7/8$ " 22"-36" DIA. L=3 $1/4$.					
LONGITUDINAL SEAMS					
LAP, SPOTWELD AND SEAL					
RL-2					
LENGTH 1					
45 DEGREE: DIA. END 3 X (1.41) + 8 30 DEGREE: DIA. END 3 X (2) + 8					
LENGTH 2 (4" MINIMUM) (END 1 - END 2) X 2	nsheetmetal				

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#73 LATERAL CROSS

SYSTEM NUMBER/AR				DIA.	*SPECIFY
FABRICATE IN AC SMACNA DUCT CONST		NDARDS		SURE SEAL CONNECTION	CUSTOM DEGREE
TRANSVERSE SMALL END SLIP	CONNECTION	END 3	EAL 🗶	1	5 DEGREE DIA. END 2 SURE SEAL CONNECTION
	L=2 1/2 <u>+</u> L=2 7/8"± L=3 1/4" ±			4"	
<u>LONGITUDIN</u> LAP, SPOTWEL			4"	LENGTH	4"
RL-2				4"	<u></u>
LENG 45 DEGREE: DIA. EI 30 DEGREE: DIA. E	ND 3 X (1.4			DIA. END 1 SURE SEAL CONNECTION	'
TAG	QTY. DI	A. END 1	DIA END 2	DIA END 3	
					-
					-

#64 REDUCING LATERAL CROSS

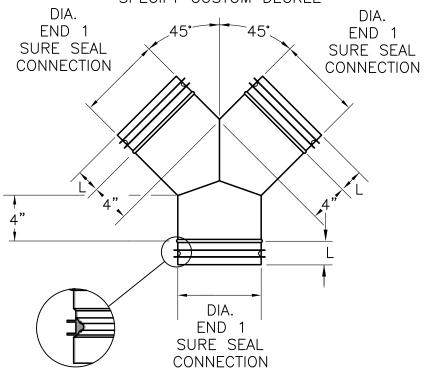
	•		:				DIA. END			
			DANCE WITH TION STANDA	RDS		(SURE S CONNEC	SEAL		CIFY DEGREE
12 22'	TRANSVE L END S 3"-11" D 2"-20" D "-36" DI	LIP CON IA. L=2 IA. L=2 A. L=3	1/2 <u>+</u> 7/8"+ 1/4" +	DIA. END 3 SURE SEA CONNECTION	×	\	4"	45	5 DEGREE	DIA. END 4 SURE SEAL CONNECTION
	<u>LONGITUD</u> P, SPOTW						_			<u> </u>
RL-	-2/	GTH 1			4"		TENGTH		4"	<u>(</u> L
45 DEGR	REE: DIA.	END 3	X (1.41) + X (2) + 8	8			•		<u> </u>	
<u>LE1</u>	NGTH 2 (END 1	(<u>4" MINI</u> — END	•				DIA. END SURE S CONNEC	1 SEAL		
	<u>TAG</u>	QTY.	DIA. END 1	<u>DIA EN</u>	<u>1D 2</u>	<u>DIA E</u>	END 3	DIA	A END 4	

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#132A 45° Y BRANCH

*SPECIFY CUSTOM DEGREE

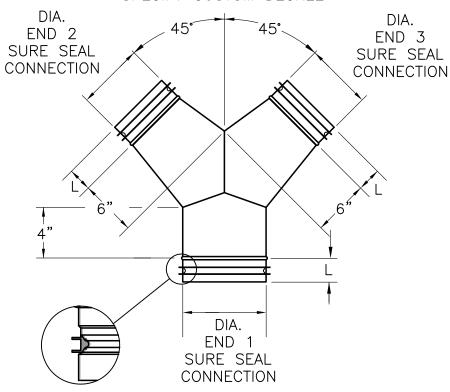


SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	<u>TAG</u>	QTY.	DIA. END 1
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS			
TRANSVERSE JOINT SMALL END SLIP CONNECTION			
$3"-11"$ DIA. L=2 $1/2$ \pm 12"-20" DIA. L=2 $7/8"\pm$ 22"-36" DIA. L=3 $1/4"\pm$			
LONGITUDINAL SEAMS LAP, SPOTWELD AND SEAL			
RL-2			

(PATENTED)

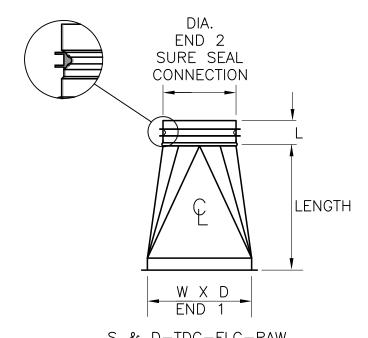
#132 45° Y BRANCH REDUCING

*SPECIFY CUSTOM DEGREE



SYSTEM NUMBER/AREA :	<u>TAG</u>	QTY.	<u>DIA.</u> END 1	<u>DIA.</u> END 2	DIA. END 3
MATERIAL/STATIC WG :					
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS					
TRANSVERSE JOINT					
SMALL END SLIP CONNECTION					
$3"-11"$ DIA. L=2 $1/2\frac{+}{2}$ 12"-20" DIA. L=2 $7/8"+$					
22"-36" DIA. L=3 $1/4$ " \pm					
LONGITUDINAL SEAMS					
LAP, SPOTWELD AND SEAL					
RL-2					

#50 CENTER LINE SQUARE TO ROUND

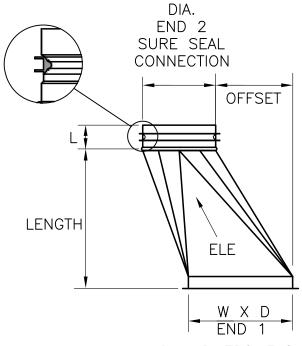


S	& D-IDC-	FLG-RAW	W X D	CONN.	DIA.
SYSTEM NUMBER/AREA :	<u>TAG</u>	QTY.	END 1 CENTERLINE	TYPE END 1	END 2 CENTERLINE
MATERIAL/STATIC WG :			X		
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDA			X		
END 1 TRANSVERSE JOINT			X		
S & D-TDC-FLG-RAW			X		
END 2 TRANSVERSE JOINT			X		
SMALL END SLIP CONNECTION 3"-11" DIA. L=2 1/2±			X		
12"-20" DIA. L=2 $7/8$ "± 22"-36" DIA. L=3 $1/4$ " ±			X		
LONGITUDINAL SEAMS			X		
LAP, SPOTWELD AND SEAL			X		
			X		
RL-2			X		
LENGTH (6" MINIMUM)			X		
END 1 (W OR D LARGEST ONE))				

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- END 2

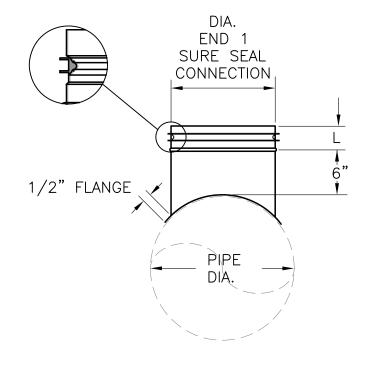
#74 OFFSET SQUARE TO ROUND



S & D-TDC-FLG-RAW

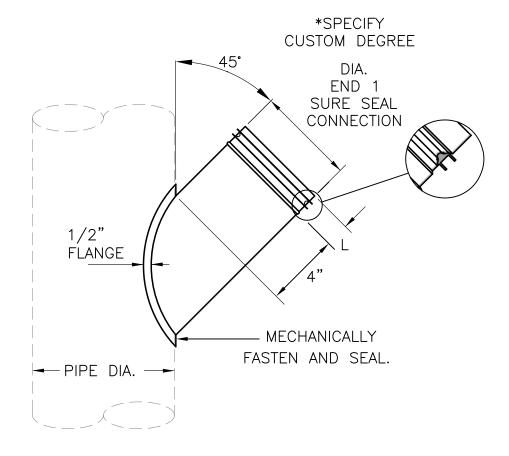
SYSTEM NUMBER/AREA :		5 150	1 20 100	•			
MATERIAL/STATIC WG :			<u>W X D</u>	CONN. TYPE	DIA		ELE.
FABRICATE IN ACCORDANCE WITH	<u>TAG</u>	QTY.	END 1	<u>END 1</u>		<u>OFFSET</u>	
SMACNA DUCT CONSTRUCTION STANDARD)S		X				
END 1 TRANSVERSE JOINT			X				
S & D-TDC-FLG-RAW			X				
END 2 TRANSVERSE JOINT			X				
SMALL END SLIP CONNECTION							
$3"-11"$ DIA. L=2 $1/2\frac{4}{1}$			X				
12"-20" DIA. L=2 7/8" <u>+</u> 22"-36" DIA. L=3 1/4" <u>+</u>			X				
LONGITUDINAL SEAMS			X				
LAP, SPOTWELD AND SEAL			X				
RL−2			X				
			X				
LENGTH (6" MINIMUM)							
OFFSET X 2							

#67-90 FIELD MOUNTED STRAIGHT TAP ON ROUND



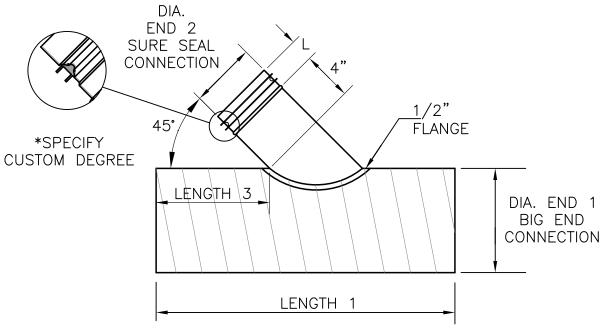
SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	<u>TAG</u>	QTY.	DIA. END 1	<u>PIPE DIA.</u>
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS				
TRANSVERSE JOINT SMALL END SLIP CONNECTION				
$3"-11"$ DIA. L=2 $1/2\frac{+}{2}$ 12"-20" DIA. L=2 $7/8"\pm$ 22"-36" DIA. L=3 $1/4"\pm$				
LONGITUDINAL SEAMS LAP, SPOTWELD AND SEAL				
RL-2				

#67 FIELD MOUNTED LATERAL TAP



SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	<u>TAG</u>	<u>QTY.</u>	DIA. END 1	<u>PIPE DIA.</u>
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS				
TRANSVERSE JOINT				
SMALL END SLIP CONNECTION				
3"-11" DIA. L=2 1/2 <u>"</u> 12"-20" DIA. L=2 7/8" <u>+</u>				
22"-36" DIA. L=3 $1/4$ " \pm				
LONGITUDINAL SEAMS				
LAP, SPOTWELD AND SEAL				
PI 2				

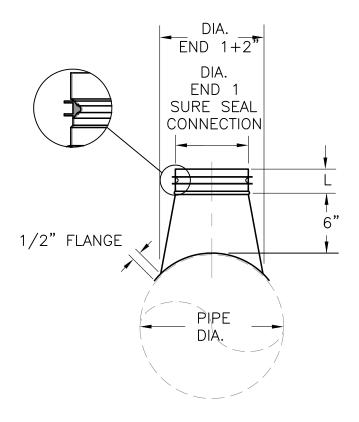
#54S LATERAL SHOP MOUNTED



SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	<u>TAG</u>	QTY.	DIA. END 1	DIA. END 2	LENGTH 1	LENGTH 3
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS						
TRANSVERSE JOINT SMALL END SLIP CONNECTION						
$3"-11"$ DIA. L=2 $1/2$ \pm 12"-20" DIA. L=2 $7/8$ " \pm 22"-36" DIA. L=3 $1/4$ " \pm						
LATERAL LONGITUDINAL SEAM LAP, SPOTWELD AND SEAL						
RL-2						
BODY LONGITUDINAL SEAM SPIRAL SEAM						
RL-1 www.land	ıdonsheeti	 metal.co				

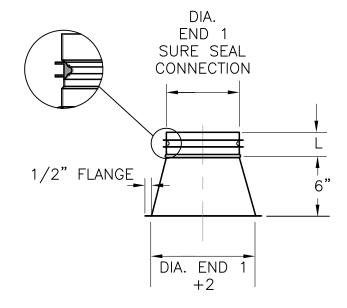
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#56T CONICAL TAP ON ROUND



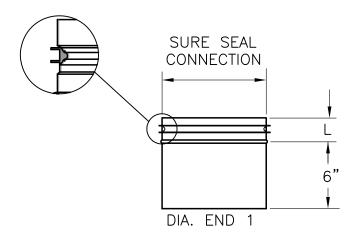
<u>TAG</u>	QTY.	DIA. END 1	PIPE DIA.
	<u>TAG</u>	TAG QTY.	TAG QTY. DIA. END 1

#57T CONICAL TAP ON RECTANGULAR DUCTWORK



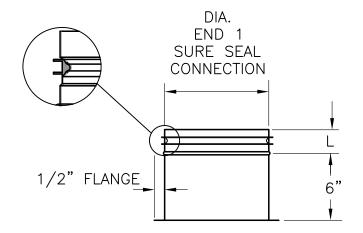
SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	<u>TAG</u>	QTY.	DIA. END 1
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS			
TRANSVERSE JOINT SMALL END SLIP CONNECTION			
$3"-11"$ DIA. L=2 $1/2$ \pm 12"-20" DIA. L=2 $7/8$ " \pm 22"-36" DIA. L=3 $1/4$ " \pm			
<u>LONGITUDINAL SEAMS</u> LAP, SPOTWELD AND SEAL			
RL-2			

#100C EQUIPMENT COLLAR-(HOODS, AIR VALVES, ECT.)



SYSTEM NUMBER/AREA :	<u>TAG</u>	<u>QTY.</u>	DIA. END 1
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS			
TRANSVERSE JOINT SMALL END SLIP CONNECTION			
$3"-11"$ DIA. L=2 $1/2$ \pm 12"-20" DIA. L=2 $7/8$ " \pm 22"-36" DIA. L=3 $1/4$ " \pm			
<u>LONGITUDINAL SEAMS</u> LAP, SPOTWELD AND SEAL			
RL-2			

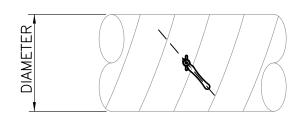
#100T FIELD MOUNTED STRAIGHT TAP ON RECTANGULAR

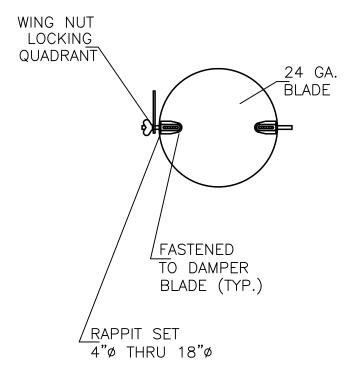


SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	TAG	QTY.	DIA. END 1
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS			
TRANSVERSE JOINT SMALL END SLIP CONNECTION			
3"-11" DIA. L=2 1/2 <u>+</u> 12"-20" DIA. L=2 7/8" <u>+</u> 22"-36" DIA. L=3 1/4" <u>+</u>			
LONGITUDINAL SEAMS			
LAP, SPOTWELD AND SEAL			

SUBMITTAL SPIRAL FITTINGS

MANUAL VOLUME DAMPER 4"\$\varphi\$ TO 18"\$\varphi\$





SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	<u>TAG</u>	QTY.	<u>DIAMETER</u>
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS			
TRANSVERSE JOINT			
SMALL END SLIP CONNECTION			
LONGITUDINAL SEAMS			
LAP, SPOTWELD AND SEAL			
RL-2			
"			
STANDARD SIZES 4"Ø THRU 18"Ø			

MANUAL VOLUME DAMPER 4"\$\opi\$ TO 18"\$\opi\$ (EVEN SIZES)

6" LONG (4"ø-10"ø) 12" LONG (12"ø-18"ø) 20 GA. SLEEVE (20"ø-30"ø)	1 1/2" LONG STAND OFF 3/8" LOCKING QUADRANT BLADE
SURE SEAL GASKET (TYP.)	SPOT WELD TO DAMPER BLADE (TYP.) 3/8" SQUARE END BEARING & NYLON BUSHING (TYP.) CONTINUOUS ROD
	14"ø THRU 18"ø 1/2" HARDWARE W/CONTINUOUS ROD
SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	SPECIFY BLADE GA. 20"Ø THRU 30"Ø
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARD	S — QTY. DIAMETER
TRANSVERSE JOINT SURE SEAL GASKET	
$3"-11"$ DIA. L=2 $1/2$ $\frac{+}{2}$ 12"-20" DIA. L=2 $7/8$ " $\frac{+}{2}$ 22"-36" DIA. L=3 $1/4$ " $\frac{+}{2}$	
<u>LONGITUDINAL SEAMS</u> LAP, SPOTWELD AND SEAL	
RL-2	
STANDARD SIZES 4"Ø THRU 30"Ø	