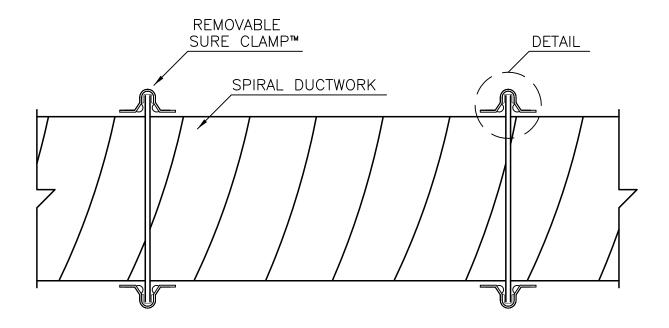
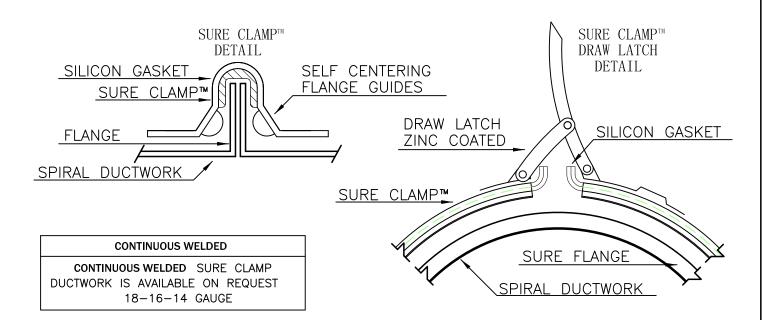
SUBMITTAL SURE • CLAMPTM





GALVANIZED SPIRAL & FITTING GAUGE CHART UNREINFORCED

NEGATIVE PRESSURE TO 20" W.G.					
DIAMETER	FITTING	SPIRAL			
4"-12"	22 GAUGE	22 GAUGE			
13"-22"	20 GAUGE	20 GAUGE			

STAINLESS STEEL SPIRAL & FITTING GAUGE CHART REINFORCE PER SMACNA STANDARDS

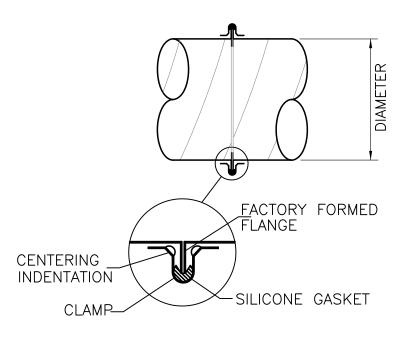
NEGATIVE PRESSURE TO 10" W.G.					
DIAMETER	FITTING	SPIRAL			
4"-12"	24 GAUGE	24 GAUGE			
13"-22"	22 GAUGE	22 GAUGE			

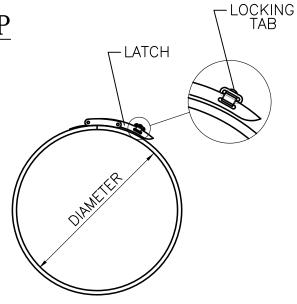
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Cincinnati, Ohio. 45215
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SUBMITTAL SURE • CLAMP

SURE CLAMP





SYSTEM NUMBER/AREA : MATERIAL TYPE :	QTY.	<u>DIAMETER</u>
FABRICATE IN ACCORDANCE WITH LANGDONS CONSTRUCTION STANDARDS		
ZINC COATED LATCHES ARE PROVIDED FOR GALVANIZED AND STAINLESS STEEL CLAMPS.		
INSTALL LOCKING TABS TO SECURE SURE CLAMP HANDLE		
STANDARD SIZES 4"Ø THRU 22"Ø		

(PATENTED)

#52 ELBOWS

*SPECIFY CUSTOM DEGREE & CENTERLINE RADIUS	O DEGREE	DIA. END 1 SURE CLAMP CONNECTION CENTERLINE
	-	RADIUS
NCE WITH	DIA. END 1 SURE CLAMP	

CONNECTION

SYSTEM NUMBER/AREA : ________
MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS

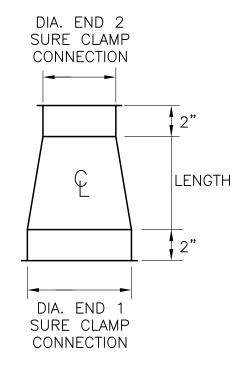
TRANSVERSE JOINT SURE CLAMP

STANDARD SIZES 4"Ø THRU 22"Ø

LAP, SPOTWELD AND SEAL	<u>TAG</u>	QTY.	<u>DEGREE</u>	DIA END 1
RL-2				
GORE LOCK 14" DIA. AND LARGER				
14 DIA. AND LARGER				
CENTERLINE RADIUS 1-1/2 X DIAMETER				
GORE AMOUNT				
0-22 DEG. = 2 GORE				
23-45 DEG. = 3 GORE 46-60 DEG. = 4 GORE 61-90 DEG. = 5 GORE				

(PATENTED)

#57 CONCENTRIC REDUCER

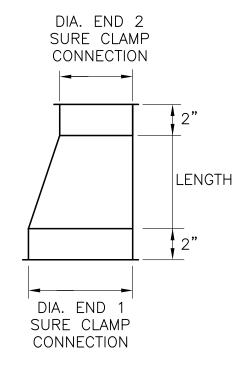


SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	<u>TAG</u>	<u>QTY.</u>	DIA. END 1	DIA END 2
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS				
TRANSVERSE JOINT SURE CLAMP				
LONGITUDINAL SEAMS LAP, SPOTWELD AND SEAL				
RL-2				
<u>LENGTH (4" MINIMUM)</u> END 1 — END 2				

STANDARD SIZES 4"ø THRU 22"ø

(PATENTED)

#69 ECENTRIC REDUCER



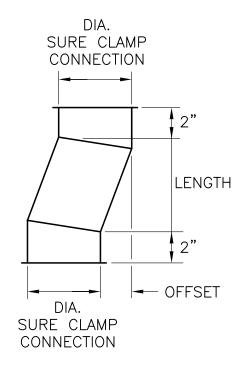
SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	<u>TAG</u>	<u>QTY.</u>	DIA. END 1	<u>DIA END 2</u>
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS				
TRANSVERSE JOINT SURE CLAMP				
<u>LONGITUDINAL SEAMS</u> LAP, SPOTWELD AND SEAL				
RL-2				
<u>LENGTH (4" MINIMUM)</u> (END 1 — END 2) x 2				

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STANDARD SIZES 4"ø THRU 22"ø

(PATENTED)

#53 OFFSET



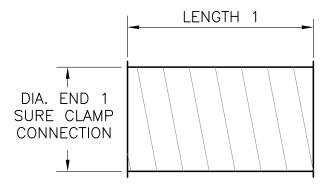
SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	<u>TAG</u>	<u>QTY.</u>	<u>DIA.</u>	<u>OFFSET</u>
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS				
TRANSVERSE JOINT SURE CLAMP				
LONGITUDINAL SEAMS LAP, SPOTWELD AND SEAL				
RL-2				
<u>LENGTH (6" MINIMUM)</u> OFFSET X 2				

STANDARD SIZES 4"ø THRU 22"ø

SUBMITTAL SURE • CLAMP SPIRAL DUCTWORK

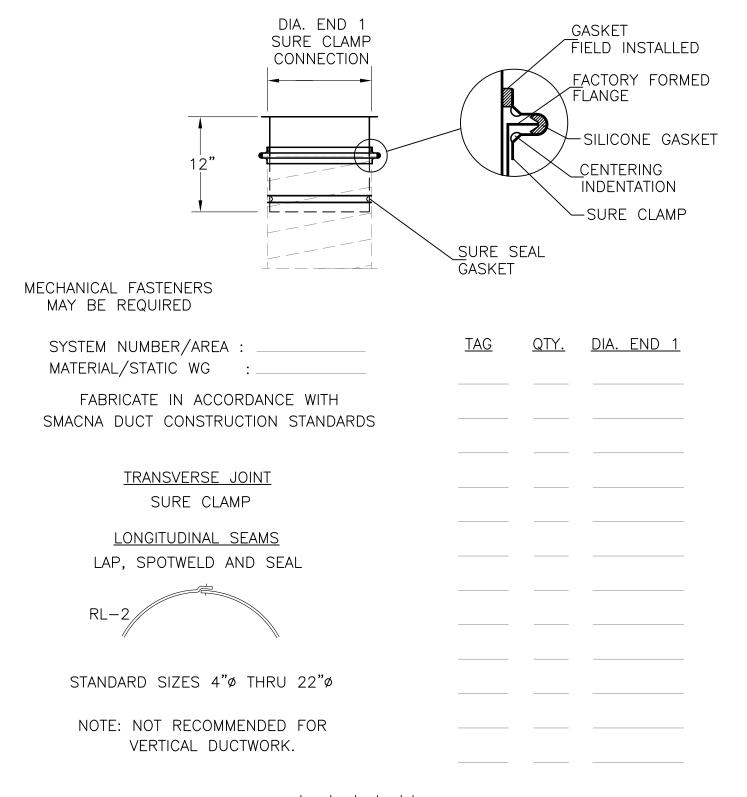
(PATENTED)

#100S SPIRAL DUCTWORK

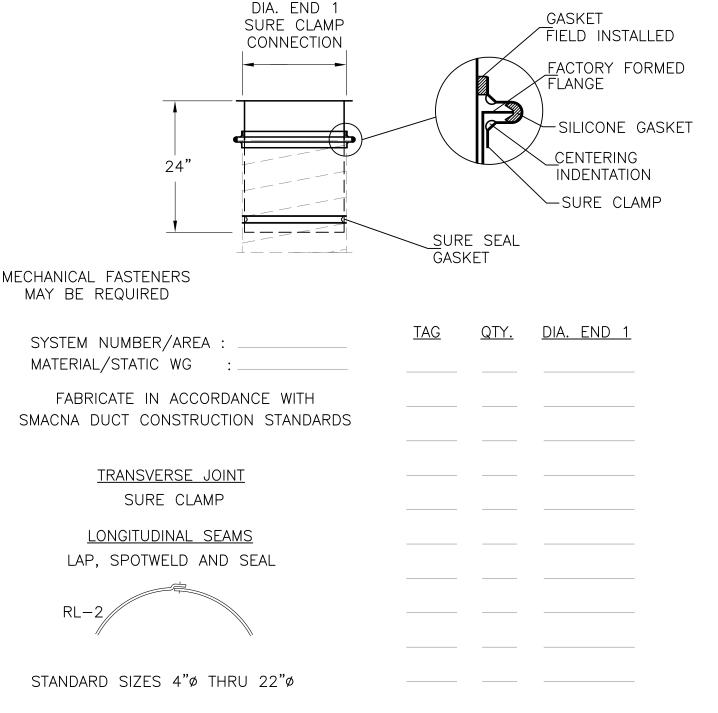


SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	<u>TAG</u>	<u>QTY.</u>	<u>DIA. END 1</u>	LENGTH 1
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS				
TRANSVERSE JOINT SURE CLAMP				
<u>LONGITUDINAL SEAM</u> SPIRAL SEAM				
RL-1				
STANDARD SIZES 4"Ø THRU 22"Ø				
<u>LENGTH 1</u> = 10' MAX. 14" MIN.				
SPECIAL LENGTHS AVALIABLE UPON REQUEST				

#100 ADJ-12 SPIRAL 12" ADJUSTABLE LENGTH END



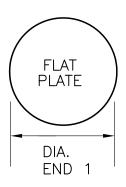
#100 ADJ-24 SPIRAL 24" ADJUSTABLE LENGTH END



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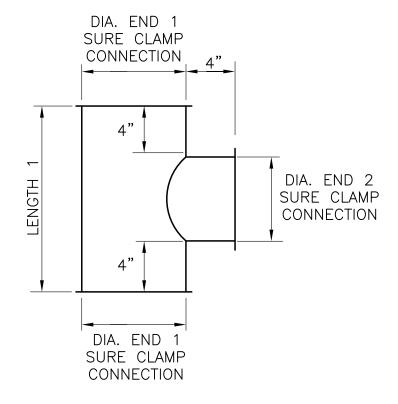
NOTE: NOT RECOMMENDED FOR VERTICAL DUCTWORK.

#02 END CAP



	<u>IAG</u>	<u>QIY.</u>	<u>DIA. END 1</u>
SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :			
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS			
TRANSVERSE JOINT SURE CLAMP			
LONGITUDINAL SEAMS LAP, SPOTWELD AND SEAL			
RL-2			
STANDARD SIZES 4"ø THRU 22"ø			

#55 STRAIGHT 90 DEGREE TEE

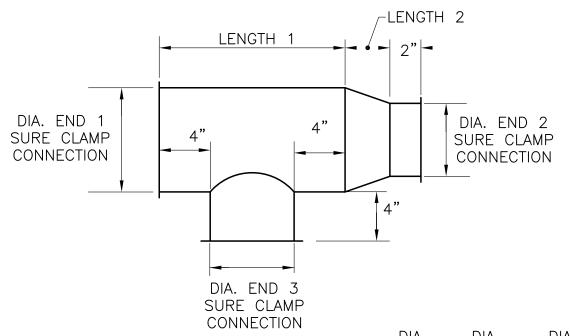


SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	<u>TAG</u>	QTY.	DIA. END 1	DIA. END 2
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS				
TRANSVERSE JOINT SURE CLAMP				
LONGITUDINAL SEAMS				
LAP, SPOTWELD AND SEAL				
RL-2				
LENGTH 1				
END 2 + 8"				

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STANDARD SIZES 4"Ø THRU 22"Ø

#65 CONCENTRIC REDUCING TEE 90 DEGREE

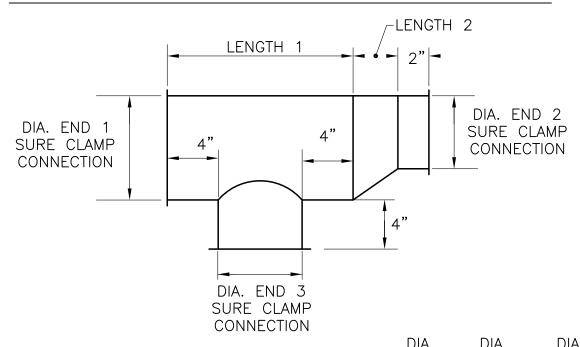


SYSTEM NUMBER/AREA :	TAG	QTY.	END 1	END 2	END 3
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS					
TRANSVERSE JOINT SURE CLAMP					
LONGITUDINAL SEAMS LAP, SPOTWELD AND SEAL					
RL-2					
LENGTH 1 END 3 + 8"					
<u>LENGTH 2 (4" MINIMUM)</u> END 1 — END 2					

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STANDARD SIZES 4"Ø THRU 22"Ø

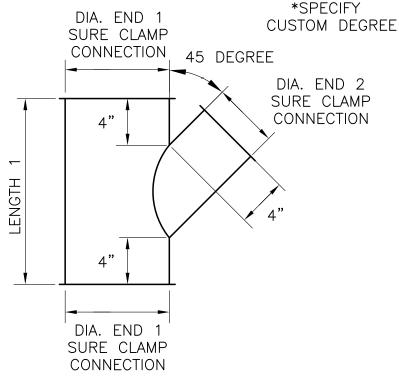
#65F ECCENTRIC REDUCING TEE 90 DEGREE



SYSTEM NUMBER/AREA :	<u>TAG</u>	QTY.	DIA. END 1	DIA. END 2	END 3
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS					
TRANSVERSE JOINT SURE CLAMP					
LONGITUDINAL SEAMS LAP, SPOTWELD AND SEAL					
RL-2					
<u>LENGTH 1</u> END 3 + 8"					
<u>LENGTH 2 (4" MINIMUM)</u> (END 1 — END 2) X 2					
STANDARD SIZES 4"Ø THRU 22"Ø					

(PATENTED)

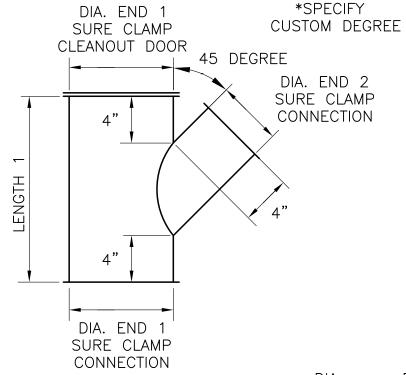
#54 LATERAL



SYSTEM NUMBER/AREA :	<u>TAG</u>	QTY.	<u>DIA.</u> END 1	<u>DIA.</u> END 2
MATERIAL/STATIC WG :				
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS				
TRANSVERSE JOINT				
SURE CLAMP				
<u>LONGITUDINAL SEAMS</u>				
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				
STANDARD SIZES 4"Ø THRU 22"Ø				

(PATENTED)

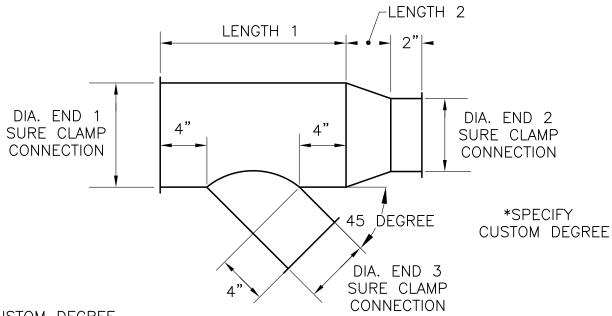
#54 LATERAL/CLEANOUT DOOR



SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	TAG	<u>QTY.</u>	<u>DIA.</u> END 1	DIA. END 2
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS				
TRANSVERSE JOINT SURE CLAMP				
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				
STANDARD SIZES 4"Ø THRU 22"Ø				

(PATENTED)

#63 REDUCING LATERAL



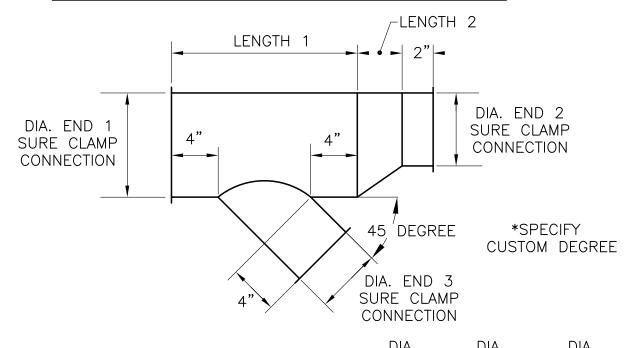
*SPECIFY CUSTOM DEGREE

STANDARD SIZES 4"ø THRU 22"ø

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 SURE CLAMP					
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					

(PATENTED)

#63F ECCENTRIC REDUCING LATERAL



SYSTEM NUMBER/AREA :	<u>TAG</u>	QTY.	<u>DIA.</u> END 1	<u>DIA.</u> END 2	<u>DIA.</u> END 3	
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS						
TRANSVERSE JOINT SURE CLAMP						
<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						
LENGTH 2 (4" MINIMUM)						

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(END 1 - END 2) X 2

STANDARD SIZES 4"ø THRU 22"ø

(PATENTED)

#73 LATERAL CROSS

SYSTEM NUM	BER/AREA	٠ :				
MATERIAL/ST	ATIC WG	:			DIA END 1	*SPECIFY
					DIA. END 1 SURF CLAMP	CUSTOM DEGREE
	TE IN ACC				CONNECTION	
SMACNA DUC	I CONSTR	UCTION S	STANDARDS		1	15 DEGREE
<u>Tf</u>	RANSVERSE SURE CI		SURE	END 3 CLAMP ECTION	4"	DIA. END 2 SURE CLAMP CONNECTION
<u>L01</u>	<u>NGITUDINAL</u>	_ SEAMS				
	SPOTWELD)	\times
		_		4"	JENGH HENGH	4"
RL-2					4"	
	<u>LENGTH</u>	<u>1</u>				
45 DEGREE:			.41) + 8			
30 DEGREE:	: DIA. END	3 X (2	2) + 8	C	DIA. END 1 SURE CLAMP	
STANDARI	D SIZES 4	ø THRU	1 22 " ø		CONNECTION	
	<u>TAG</u>	QTY.	DIA. END 1	DIA END 2	DIA END 3	
						_
						_
						_
						_
						_
						_
						_

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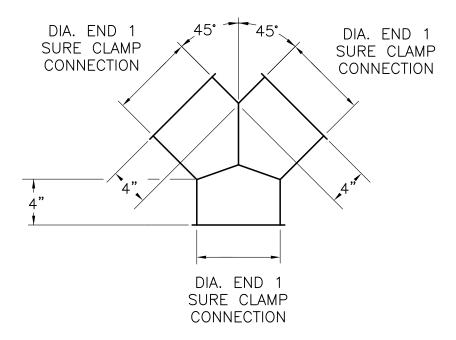
#64 REDUCING LATERAL CROSS

MATERIAL/STA	ATIC WG	·			DIA. END : SURE CLAM CONNECTIO	IP	
		ORDANCE WITH JCTION STANDA	l	LENGTH 2 -	\	. 45 DEGRE	
<u>TR</u> ,	<u>ANSVERSE</u> SURE CL		DIA. END SURE CLAM CONNECTIO	3 //P	4"	DIA SUR	END 4 CLAMP NNECTION
	<u>GITUDINAL</u> SPOTWELD	<u>SEAMS</u> AND SEAL	33,11,23,13		-		
RL-2/				4"	HENCH LENCH 4."	4"	
	<u>LENGTH</u>	<u>1</u>			1,44		
		D 3 X (1.41) D 3 X (2) +			DIA. END SURE CLAN		
	<u>H 2 (4"</u> ND 1 —	<u>MINIMUM)</u> END 2			CONNECTIO		
STANDARD	SIZES 4	"ø THRU 22"ø					
TAG	QTY.	DIA. END 1	DIA END	<u>2</u> <u>DIA</u>	END 3	DIA END 4	
	. ———						

(PATENTED)

#132A 45° Y BRANCH

*SPECIFY CUSTOM DEGREE

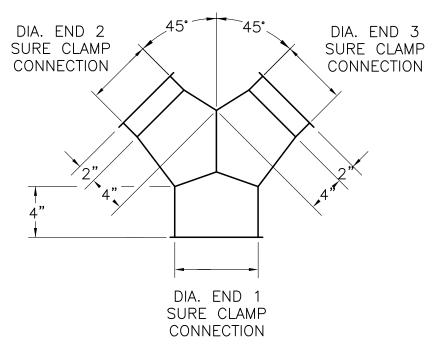


SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	<u>TAG</u>	QTY.	DIA. END 1
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS			
TRANSVERSE JOINT SURE CLAMP			
<u>LONGITUDINAL SEAMS</u> LAP, SPOTWELD AND SEAL			
RL-2			
STANDARD SIZES 4"Ø THRU 22"Ø			

Y BRANCH REDUCING

*SPECIFY CUSTOM DEGREE

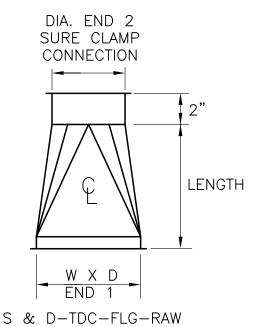
#132 45°



SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	TAG	<u>QTY.</u>	DIA. END 1	<u>DIA.</u> END 2	DIA. END 3
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS					
TRANSVERSE JOINT SURE CLAMP					
<u>LONGITUDINAL SEAMS</u> LAP, SPOTWELD AND SEAL					
RL-2					
STANDARD SIZES 4"Ø THRU 22"Ø					

(PATENTED)

#50 CENTER LINE SQUARE TO ROUND



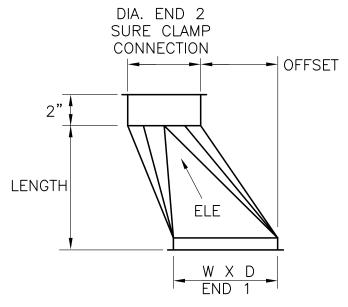
 $W \times D$ CONN. DIA. END 1 TYPE END 2 **TAG** QTY. CENTERLINE END 1 **CENTERLINE** SYSTEM NUMBER/AREA: MATERIAL/STATIC WG Χ FABRICATE IN ACCORDANCE WITH Χ SMACNA DUCT CONSTRUCTION STANDARDS Χ END 1 TRANSVERSE JOINT Χ S & D-TDC-FLG-RAW Χ END 2 TRANSVERSE JOINT SURE CLAMP Χ LONGITUDINAL SEAMS Χ LAP, SPOTWELD AND SEAL Χ Χ Χ LENGTH (6" MINIMUM) Χ END 1 (W OR D LARGEST ONE) - END 2

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STANDARD SIZES 4"Ø THRU 22"Ø

(PATENTED)

#74 OFFSET SQUARE TO ROUND



S & D-TDC-FLG-RAW

SYSTEM NUMBER/AREA :	<u>TAG</u>	QTY.	<u>W X D</u> END 1	TYPE END 1	DIA END 2	<u>OFFSET</u>	ELE. TU/TD
MATERIAL/STATIC WG :			X				
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS			X				
_			X				
<u>END 1 TRANSVERSE JOINT</u> S & D-TDC-FLG-RAW			X				
END 2 TRANSVERSE JOINT			X				
SURE CLAMP			X				
<u>LONGITUDINAL SEAMS</u> LAP, SPOTWELD AND SEAL			X				
			X				
RL-2			X				
I FNGTH (6" MINIMUM)			X				

STANDARD SIZES 4"ø THRU 22"ø

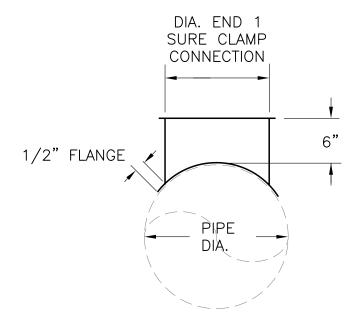
OFFSET X 2

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(PATENTED)

#67-90 FIELD MOUNTED STRAIGHT TAP ON ROUND



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 SURE CLAMP				
<u>LONGITUDINAL SEAMS</u> LAP, SPOTWELD AND SEAL				
RL-2				
STANDARD SIZES 4"Ø THRU 22"Ø				

(PATENTED)

#67 FIELD MOUNTED LATERAL TAP

DIA. END 1
SURE CLAMP
CONNECTION

1/2"
FLANGE

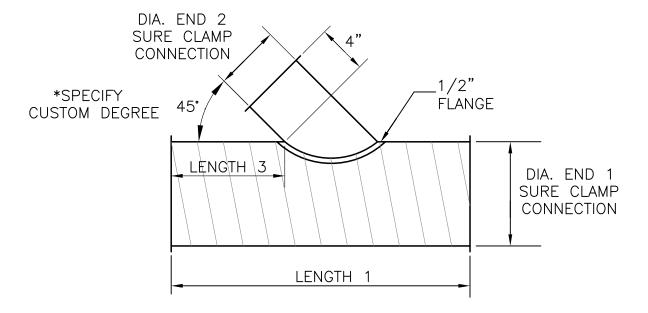
MECHANICALLY
FASTEN AND SEAL.

*SPECIFY

SYSTEM NUMBER/AREA :	<u>TAG</u>	QTY.	DIA. END 1	<u>PIPE DIA.</u>
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS				
TRANSVERSE JOINT SURE CLAMP				
LONGITUDINAL SEAMS LAP, SPOTWELD AND SEAL				
RL-2				
STANDARD SIZES 4"ø THRU 22"ø				

(PATENTED)

#54S LATERAL SHOP MOUNTED

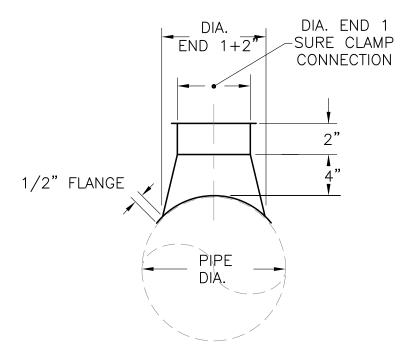


SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	<u>TAG</u>	QTY.	DIA. END 1	DIA. END 2	LENGTH 1	LENGTH 3
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS						
TRANSVERSE JOINT SURE CLAMP						
LATERAL LONGITUDINAL SEAM LAP, SPOTWELD AND SEAL						
RL-2						
BODY LONGITUDINAL SEAM SPIRAL SEAM						
RL-1						

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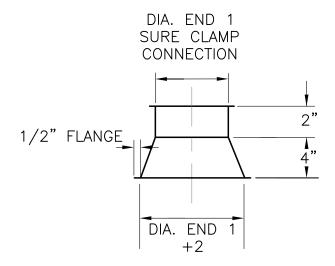
STANDARD SIZES 4"Ø THRU 22"Ø

#56T CONICAL TAP ON ROUND



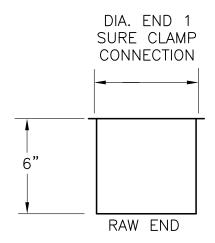
SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	TAG	<u>QTY.</u>	DIA. END 1	<u>PIPE DIA.</u>
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS				
TRANSVERSE JOINT SURE CLAMP				
<u>LONGITUDINAL SEAMS</u> LAP, SPOTWELD AND SEAL				
RL-2				
STANDARD SIZES 4"Ø THRU 22"Ø				

#57T CONICAL TAP ON RECTANGULAR DUCTWORK



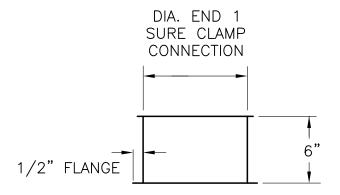
SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	<u>TAG</u>	<u>QTY.</u>	DIA. END 1
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS			
TRANSVERSE JOINT SURE CLAMP			
<u>LONGITUDINAL SEAMS</u> LAP, SPOTWELD AND SEAL			
RL-2			
STANDARD SIZES 4"Ø THRU 22"Ø			

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



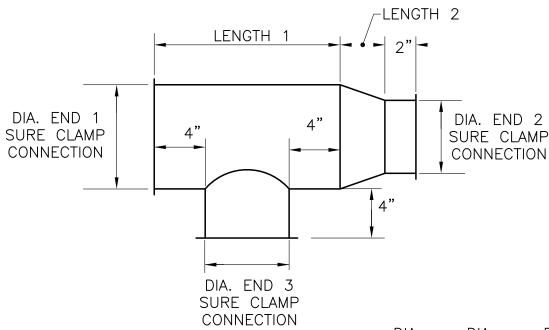
SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	<u>TAG</u>	<u>QTY.</u>	DIA. END 1
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS			
TRANSVERSE JOINT SURE CLAMP			
LONGITUDINAL SEAMS LAP, SPOTWELD AND SEAL			
RL-2			
STANDARD SIZES 4"Ø THRU 22"Ø			

#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 SURE CLAMP			
<u>LONGITUDINAL SEAMS</u> LAP, SPOTWELD AND SEAL			
RL-2			
STANDARD SIZES 4"Ø THRU 22"Ø			

#65 CONCENTRIC REDUCING TEE 90 DEGREE



	TAO	OT\/	DIA.	DIA.	DIA.
SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	<u>TAG</u>	<u>QTY.</u>	<u>END 1</u>	<u>END 2</u>	<u>END 3</u>
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS					
TRANSVERSE JOINT SURE CLAMP					
LONGITUDINAL SEAMS LAP, SPOTWELD AND SEAL					
RL-2					
<u>LENGTH 1</u> END 3 + 8"					
<u>LENGTH 2 (4" MINIMUM)</u> END 1 — END 2					

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STANDARD SIZES 4"Ø THRU 22"Ø

(PATENTED)

#100VD MANUAL VOLUME DAMPER 4"\$\varphi\$ TO 18"\$\varphi\$

6" LONG (4"ø-10"ø)			<u>1</u> 1/2" LONG STAND OFF
12" LONG 3/8	" LOCKING JADRANT\ _		_20 GA. BLADE
FACTORY FORMED FLANGE		3/8" BEARI	SPOT WELD TO DAMPER BLADE (TYP.) SQUARE END NG & NYLON
CENTERING INDENTATION SILICONE GASKET		TINUOUS THRU	
SYSTEM NUMBER/AREA : MATERIAL/STATIC WG :	<u>TAG</u>	QTY.	DIAMETER
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS			
TRANSVERSE JOINT SURE CLAMP			
<u>LONGITUDINAL SEAMS</u> LAP, SPOTWELD AND SEAL			
RL-2			
STANDARD SIZES 4"Ø THRU 22"Ø			