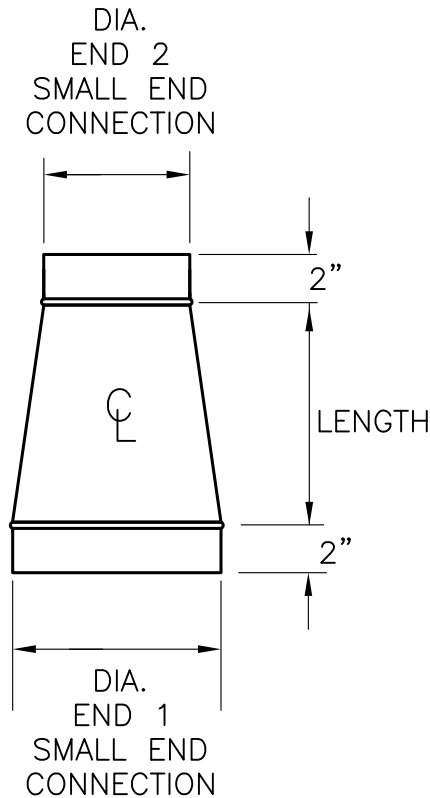


SUBMITTAL SPIRAL FITTINGS

#57 CONCENTRIC REDUCER

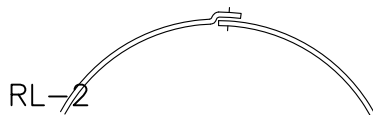


SYSTEM NUMBER/AREA : _____
 MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
 SMACNA DUCT CONSTRUCTION STANDARDS

TRANSVERSE JOINT
 SMALL END SLIP CONNECTION

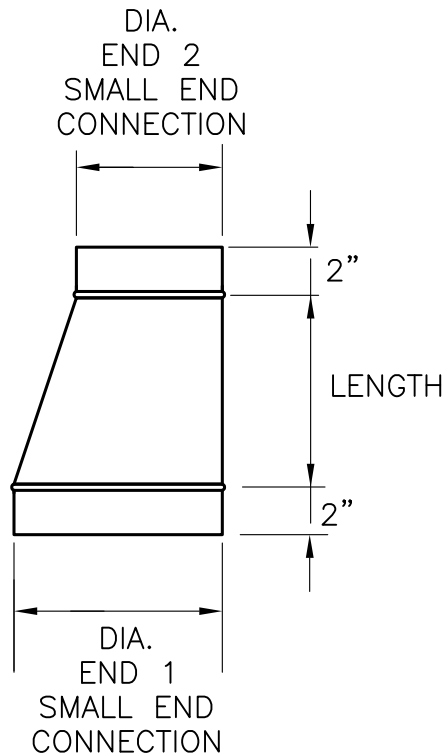
LONGITUDINAL SEAMS
 LAP, SPOTWELD AND SEAL



LENGTH (4" MINIMUM)
 END 1 — END 2

<u>TAG</u>	<u>QTY.</u>	<u>DIA. END 1</u>	<u>DIA END 2</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

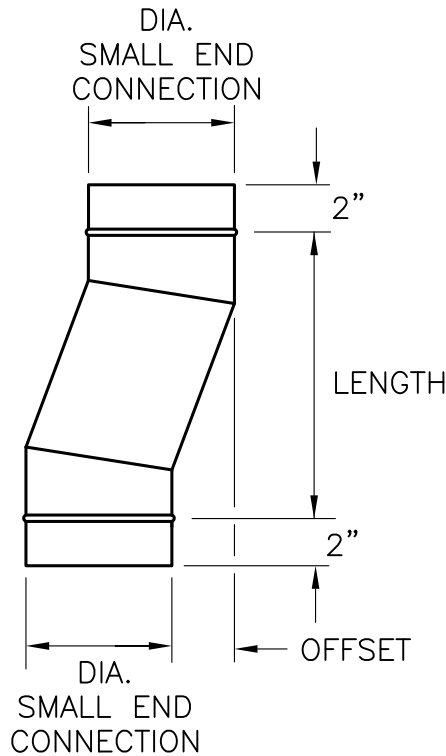
SUBMITTAL SPIRAL FITTINGS #69 ECENTRIC REDUCER



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

SUBMITTAL SPIRAL FITTINGS

#53 OFFSET



SYSTEM NUMBER/AREA : _____

MATERIAL/STATIC WG : _____

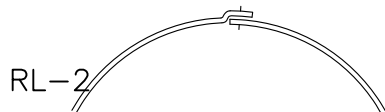
FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

TRANSVERSE JOINT

SMALL END SLIP CONNECTION

LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL

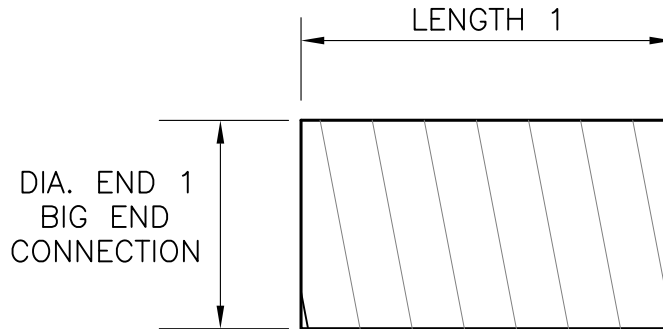


LENGTH (6" MINIMUM)
OFFSET X 2

<u>TAG</u>	<u>QTY.</u>	<u>DIA.</u>	<u>OFFSET</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

SUBMITTAL SPIRAL DUCTWORK

#100S SPIRAL DUCTWORK



SYSTEM NUMBER/AREA : _____

MATERIAL/STATIC WG : _____

TAG

QTY.

DIA. END 1

LENGTH 1

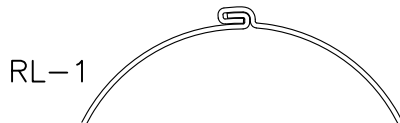
FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

TRANSVERSE JOINT

BIG END RAW CONNECTION

LONGITUDINAL SEAM

SPIRAL SEAM



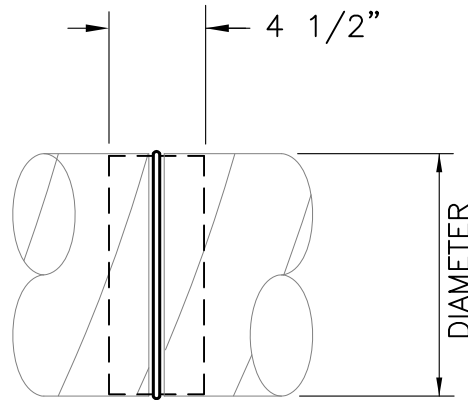
LENGTH 1 = 10' MAX. 14" MIN.

SPECIAL LENGTHS AVAILABLE UPON REQUEST

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SUBMITTAL SPIRAL FITTINGS

SPIRAL COUPLING



SYSTEM NUMBER/AREA : _____
MATERIAL TYPE : _____

QTY. DIAMETER

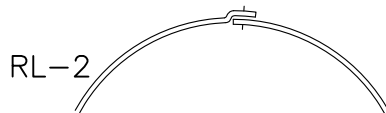
FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

TRANSVERSE JOINT

SMALL END SLIP CONNECTION

LONGITUDINAL SEAMS

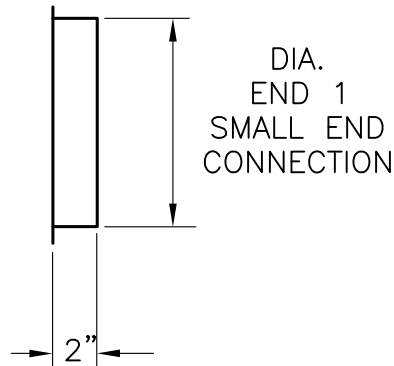
LAP, SPOTWELD AND SEAL

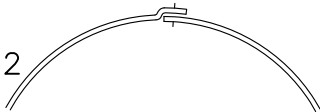


_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

SUBMITTAL SPIRAL FITTINGS

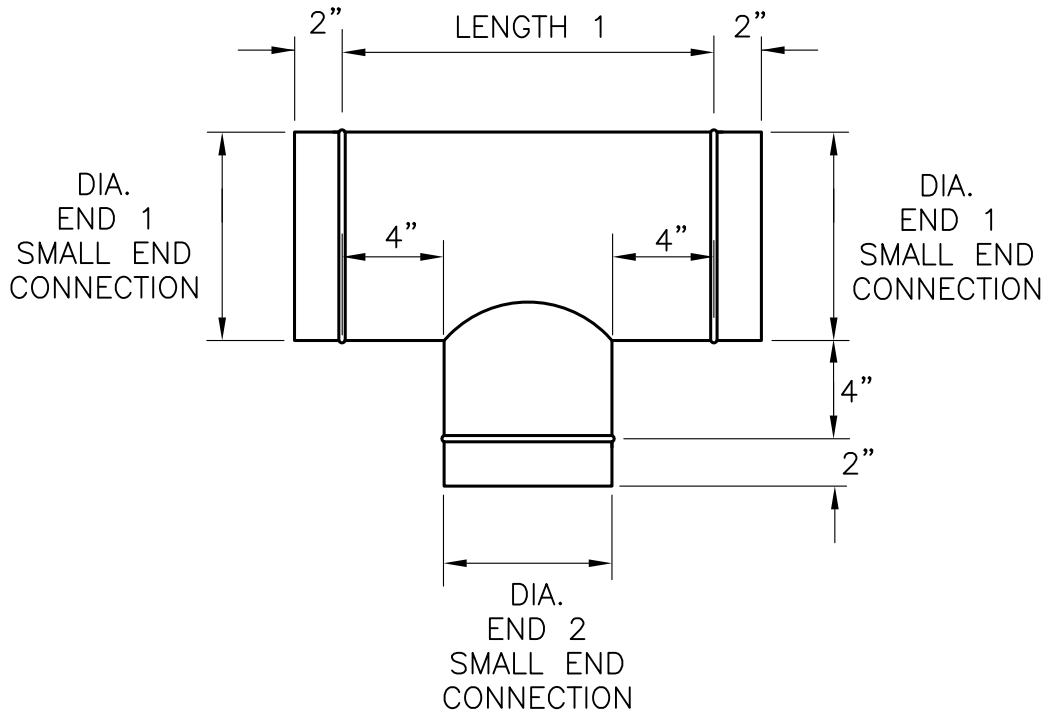
#02 END CAP



	<u>TAG</u>	<u>QTY.</u>	<u>DIA. END 1</u>
SYSTEM NUMBER/AREA : _____	_____	_____	_____
MATERIAL/STATIC WG : _____	_____	_____	_____
FABRICATE IN ACCORDANCE WITH	_____	_____	_____
SMACNA DUCT CONSTRUCTION STANDARDS	_____	_____	_____
<u>TRANSVERSE JOINT</u>	_____	_____	_____
SMALL END SLIP CONNECTION	_____	_____	_____
<u>LONGITUDINAL SEAMS</u>	_____	_____	_____
LAP, SPOTWELD AND SEAL	_____	_____	_____
RL-2 	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

SUBMITTAL SPIRAL FITTINGS

#55 STRAIGHT 90 DEGREE TEE



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

TAG

QTY.

DIA. END 1

DIA. END 2

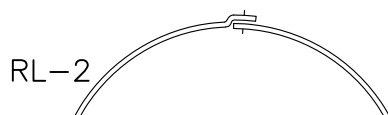
FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

TRANSVERSE JOINT

SMALL END SLIP CONNECTION

LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL

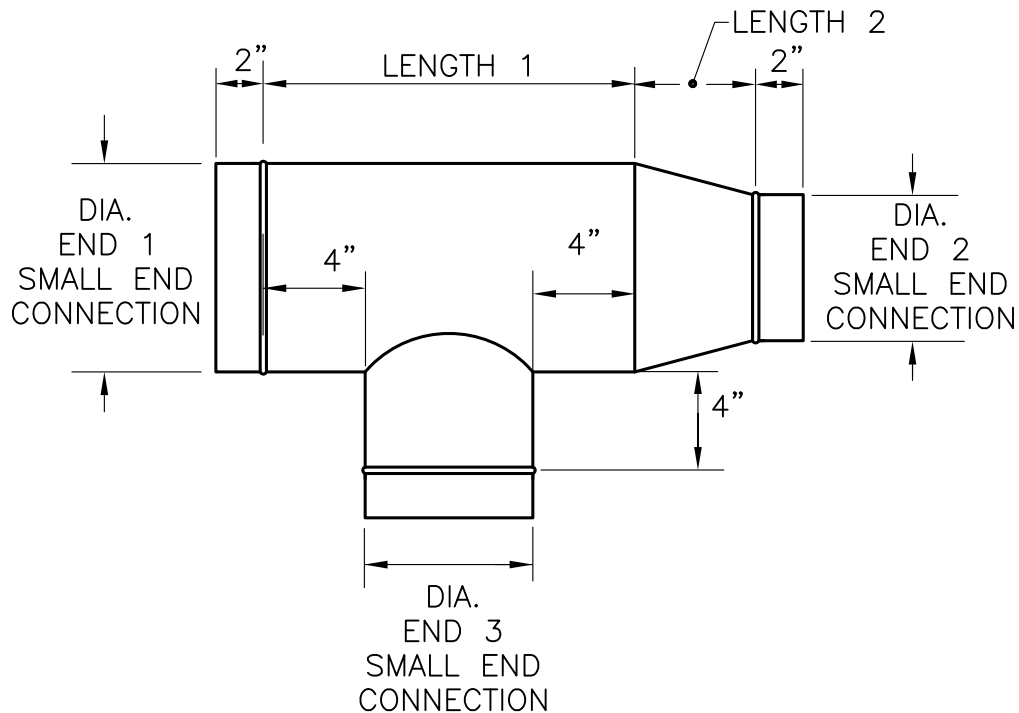


LENGTH 1
END 2 + 8"

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SUBMITTAL SPIRAL FITTINGS

#65 CONCENTRIC REDUCING TEE 90 DEGREE

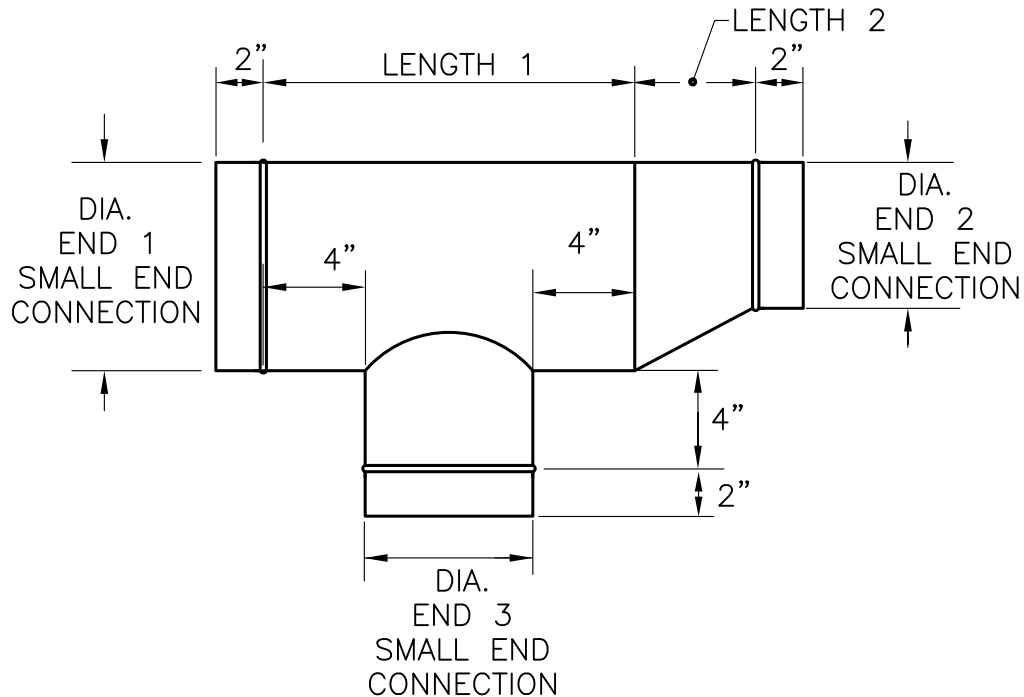


SYSTEM NUMBER/AREA : _____	TAG	QTY.	DIA. END 1	DIA. END 2	DIA. END 3
MATERIAL/STATIC WG : _____	_____	_____	_____	_____	_____
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS	_____	_____	_____	_____	_____
<u>TRANSVERSE JOINT</u>	_____	_____	_____	_____	_____
SMALL END SLIP CONNECTION	_____	_____	_____	_____	_____
<u>LONGITUDINAL SEAMS</u>	_____	_____	_____	_____	_____
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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SUBMITTAL SPIRAL FITTINGS

#65F ECCENTRIC REDUCING TEE 90 DEGREE

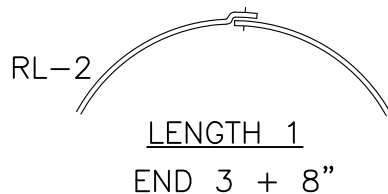


	<u>TAG</u>	<u>QTY.</u>	<u>DIA.</u> <u>END 1</u>	<u>DIA.</u> <u>END 2</u>	<u>DIA.</u> <u>END 3</u>
SYSTEM NUMBER/AREA : _____	_____	_____	_____	_____	_____
MATERIAL/STATIC WG : _____	_____	_____	_____	_____	_____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

TRANSVERSE JOINT
SMALL END SLIP CONNECTION

LONGITUDINAL SEAMS
LAP, SPOTWELD AND SEAL



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

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#54 LATERAL

TAGQTY.

DIA.
END 1

DIA.
END 2

[illegible]

SMALL END SLIP CONNECTION

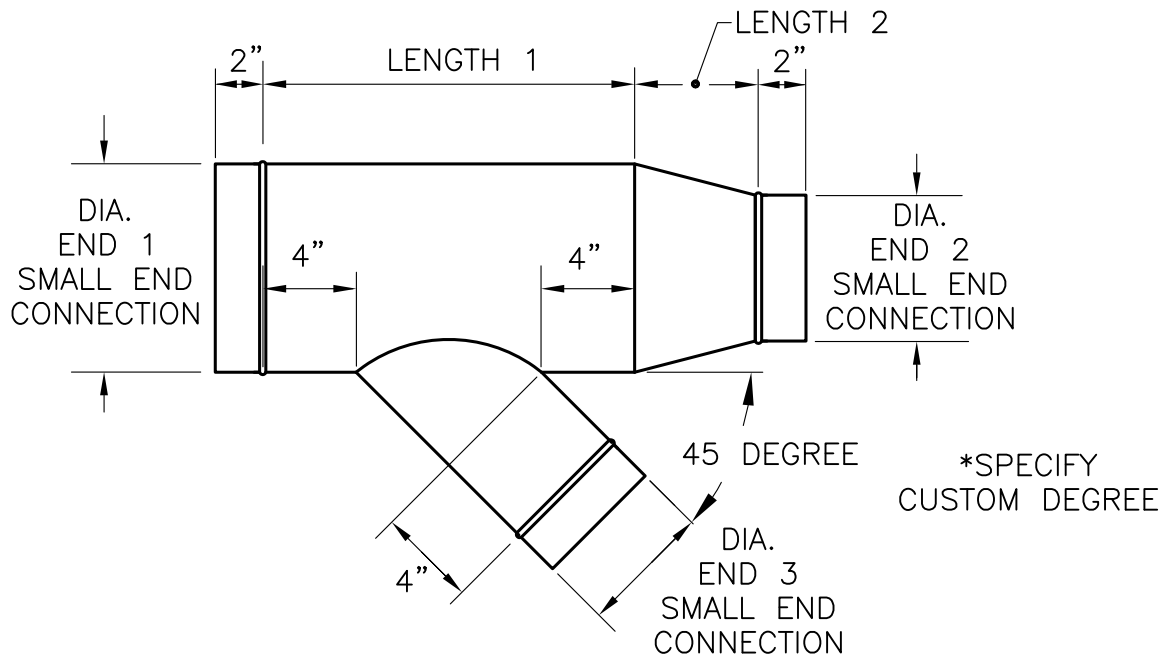
LAP, SPOTWELD AND SEAL



30 DEGREE: DIA. END $2 \times (2) + 8$
45 DEGREE: DIA. END $2 \times (1.41) + 8$

SUBMITTAL SPIRAL FITTINGS

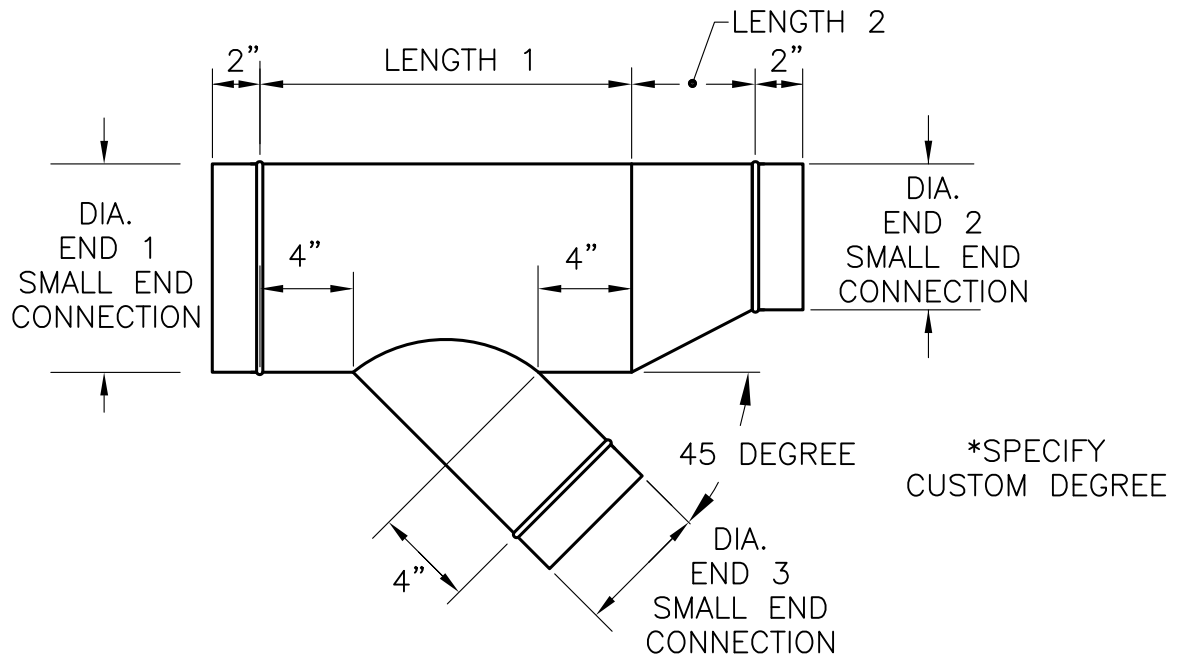
#63 REDUCING LATERAL

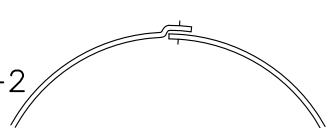


SYSTEM NUMBER/AREA :	TAG	QTY.	DIA. END 1	DIA. END 2	DIA. END 3
MATERIAL/STATIC WG :					
FABRICATE IN ACCORDANCE WITH					
SMACNA DUCT CONSTRUCTION STANDARDS					
<u>TRANSVERSE JOINT</u>					
SMALL END SLIP CONNECTION					
<u>LONGITUDINAL SEAMS</u>					
LAP, SPOTWELD AND SEAL					
RL-2					
<u>LENGTH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

SUBMITTAL SPIRAL FITTINGS

#63F ECCENTRIC REDUCING LATERAL



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

SUBMITTAL SPIRAL FITTINGS

#73 LATERAL CROSS

SYSTEM NUMBER/AREA : _____

MATERIAL/STATIC WG : _____

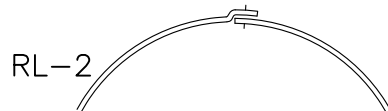
FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

TRANSVERSE JOINT

SMALL END SLIP CONNECTION

LONGITUDINAL SEAMS

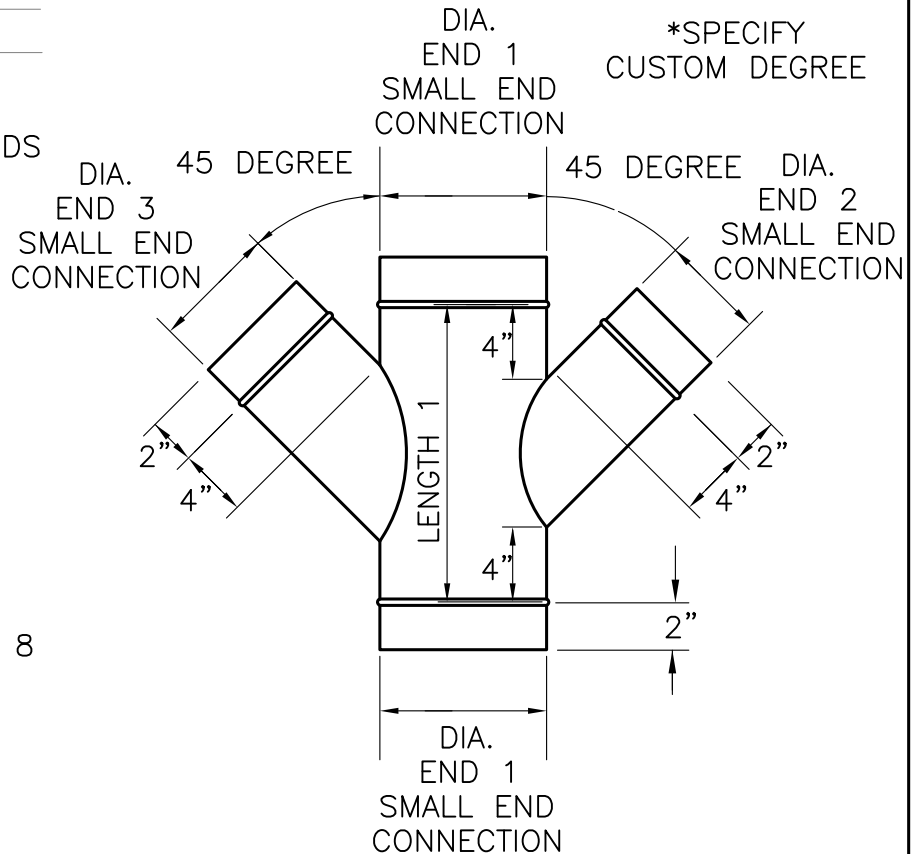
LAP, SPOTWELD AND SEAL



LENGTH 1

45 DEGREE: DIA. END 3 X (1.41) + 8

30 DEGREE: DIA. END 3 X (2) + 8



<u>TAG</u>	<u>QTY.</u>	<u>DIA. END 1</u>	<u>DIA. END 2</u>	<u>DIA. END 3</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

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SUBMITTAL SPIRAL FITTINGS

#64 REDUCING LATERAL CROSS

SYSTEM NUMBER/AREA : _____

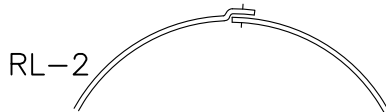
MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

*SPECIFY
CUSTOM DEGREE

TRANSVERSE JOINT
SMALL END SLIP CONNECTION

LONGITUDINAL SEAMS
LAP, SPOTWELD AND SEAL



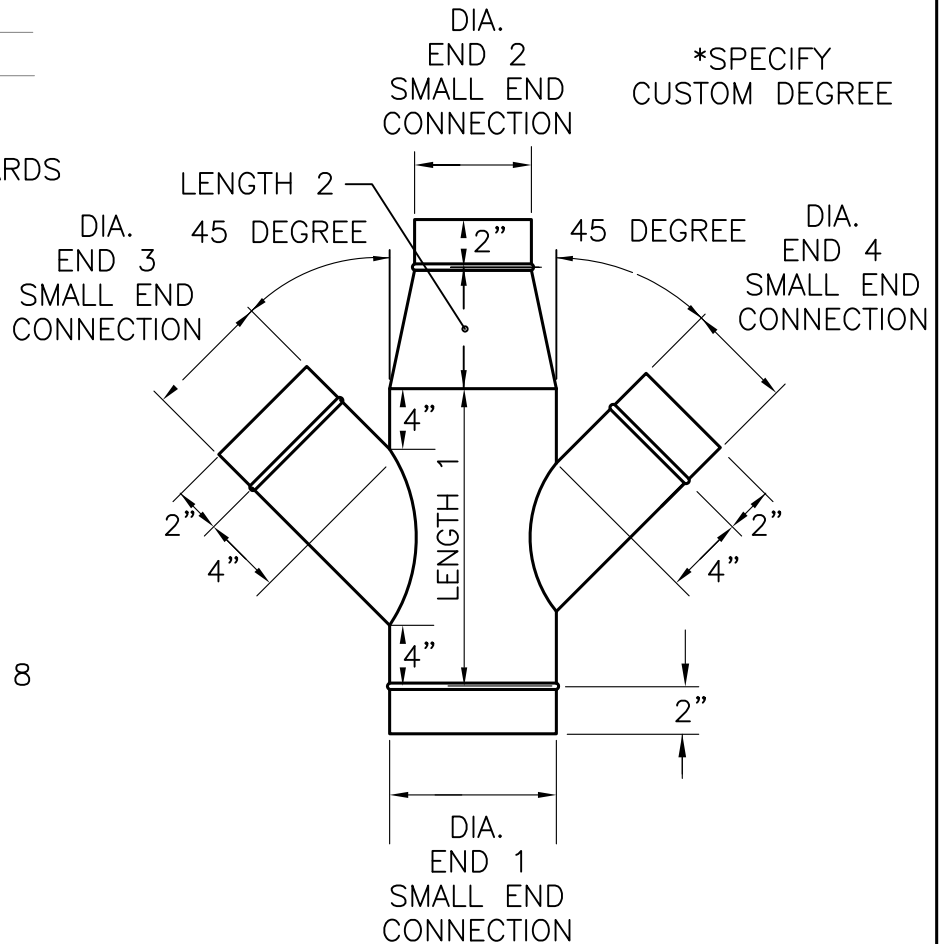
LENGTH 1

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

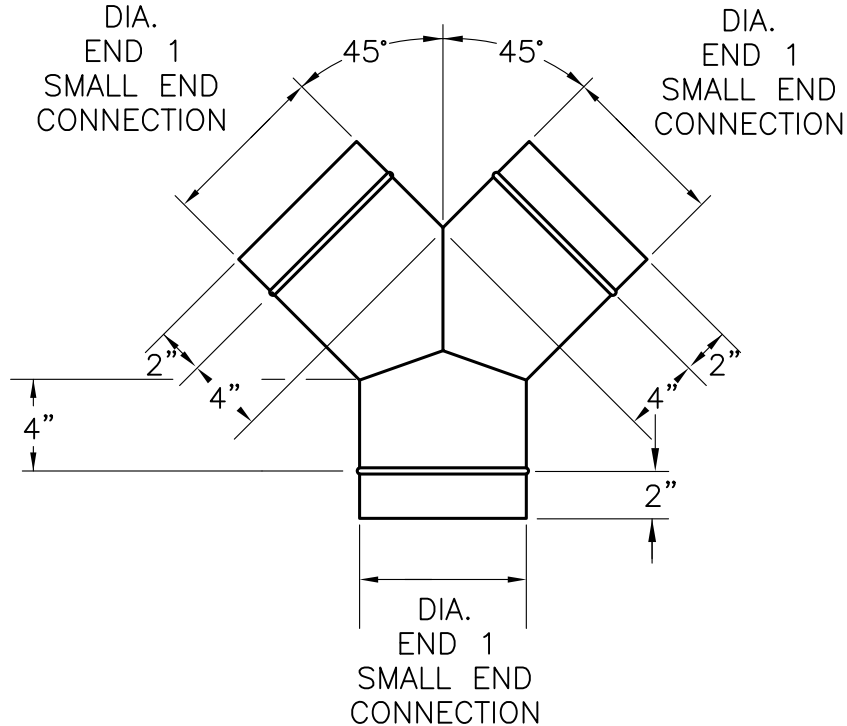


<u>TAG</u>	<u>QTY.</u>	<u>DIA. END 1</u>	<u>DIA END 2</u>	<u>DIA END 3</u>	<u>DIA END 4</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

SUBMITTAL SPIRAL FITTINGS

#132A 45° Y BRANCH

*SPECIFY CUSTOM DEGREE

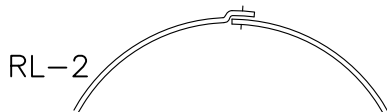


SYSTEM NUMBER/AREA : _____
MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

TRANSVERSE JOINT
SMALL END SLIP CONNECTION

LONGITUDINAL SEAMS
LAP, SPOTWELD AND SEAL

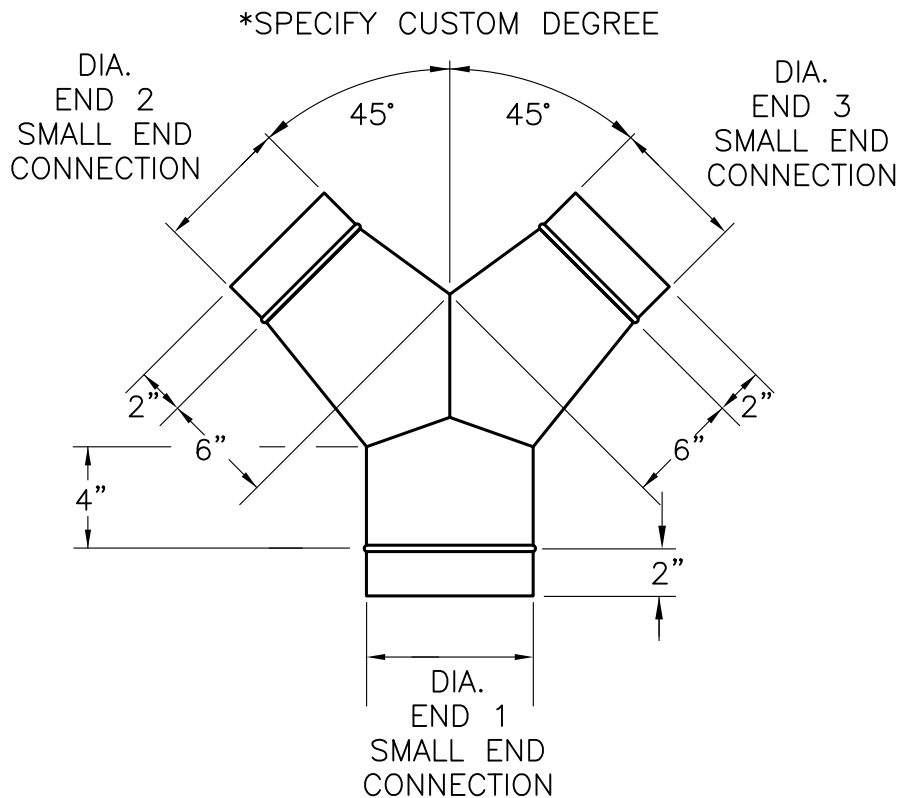


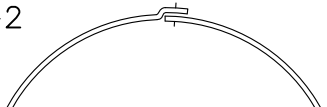
<u>TAG</u>	<u>QTY.</u>	<u>DIA. END 1</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

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SUBMITTAL SPIRAL FITTINGS

#132 45° Y BRANCH REDUCING

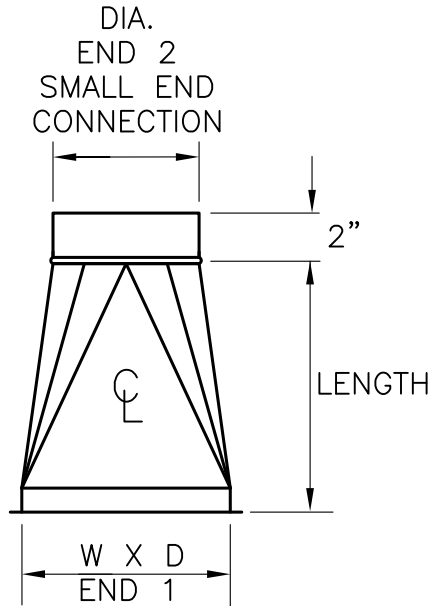


SYSTEM NUMBER/AREA : _____	TAG	QTY.	DIA. END 1	DIA. END 2	DIA. END 3
MATERIAL/STATIC WG : _____	_____	_____	_____	_____	_____
FABRICATE IN ACCORDANCE WITH	_____	_____	_____	_____	_____
SMACNA DUCT CONSTRUCTION STANDARDS	_____	_____	_____	_____	_____
<u>TRANSVERSE JOINT</u>	_____	_____	_____	_____	_____
SMALL END SLIP CONNECTION	_____	_____	_____	_____	_____
<u>LONGITUDINAL SEAMS</u>	_____	_____	_____	_____	_____
LAP, SPOTWELD AND SEAL	_____	_____	_____	_____	_____
RL-2	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____

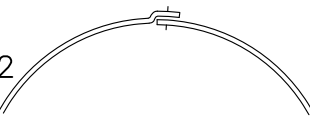
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SUBMITTAL SPIRAL FITTINGS

#50 CENTER LINE SQUARE TO ROUND



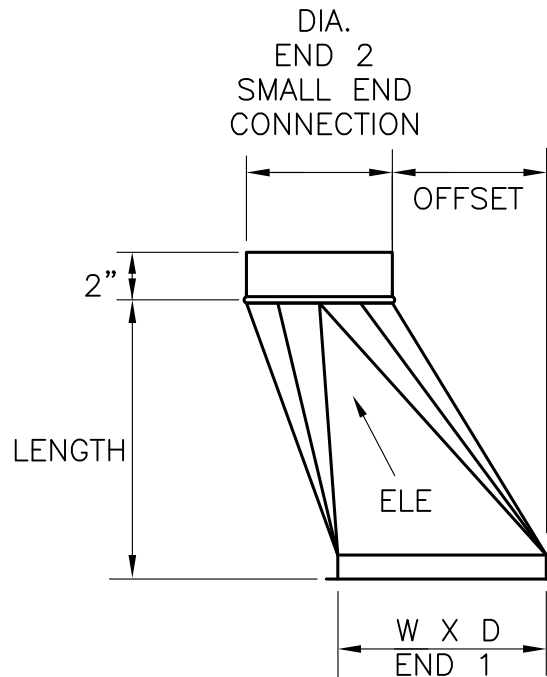
S & D-TDC-FLG-RAW

SYSTEM NUMBER/AREA : _____	TAG	QTY.	<u>W X D</u> <u>END 1</u> CENTERLINE	<u>CONN.</u> <u>TYPE</u> END 1	<u>DIA.</u> <u>END 2</u> CENTERLINE
MATERIAL/STATIC WG : _____	_____	_____	X	_____	_____
FABRICATE IN ACCORDANCE WITH	_____	_____	X	_____	_____
SMACNA DUCT CONSTRUCTION STANDARDS	_____	_____	X	_____	_____
<u>END 1 TRANSVERSE JOINT</u>	_____	_____	X	_____	_____
S & D-TDC-FLG-RAW	_____	_____	X	_____	_____
<u>END 2 TRANSVERSE JOINT</u>	_____	_____	X	_____	_____
SMALL END SLIP CONNECTION	_____	_____	X	_____	_____
<u>LONGITUDINAL SEAMS</u>	_____	_____	X	_____	_____
LAP, SPOTWELD AND SEAL	_____	_____	X	_____	_____
RL-2 	_____	_____	X	_____	_____
<u>LENGTH (6" MINIMUM)</u>	_____	_____	X	_____	_____
END 1 (W OR D LARGEST ONE) - END 2	_____	_____		_____	_____

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SUBMITTAL SPIRAL FITTINGS

#74 OFFSET SQUARE TO ROUND



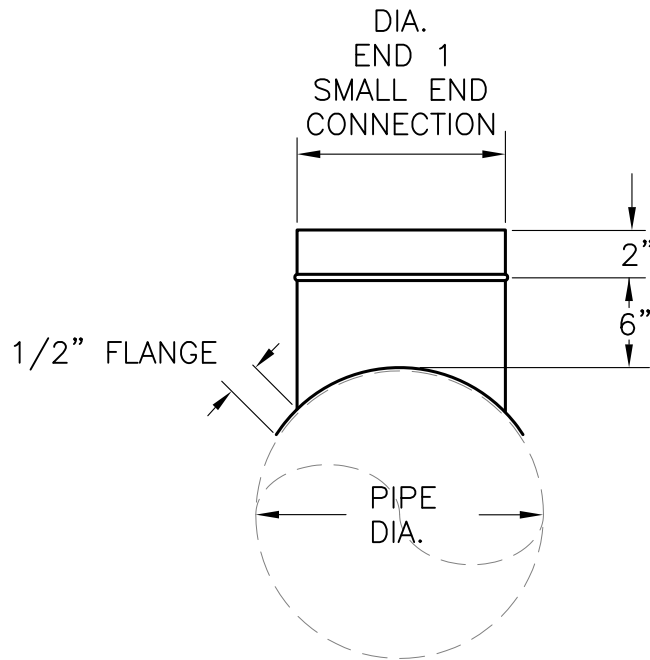
S & D-TDC-FLG-RAW

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

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SUBMITTAL SPIRAL FITTINGS

#67-90 FIELD MOUNTED STRAIGHT TAP ON ROUND



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

TAG

QTY.

DIA. END 1

PIPE DIA.

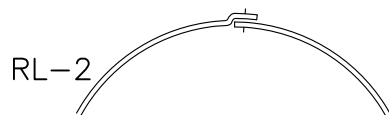
FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

TRANSVERSE JOINT

SMALL END SLIP CONNECTION

LONGITUDINAL SEAMS

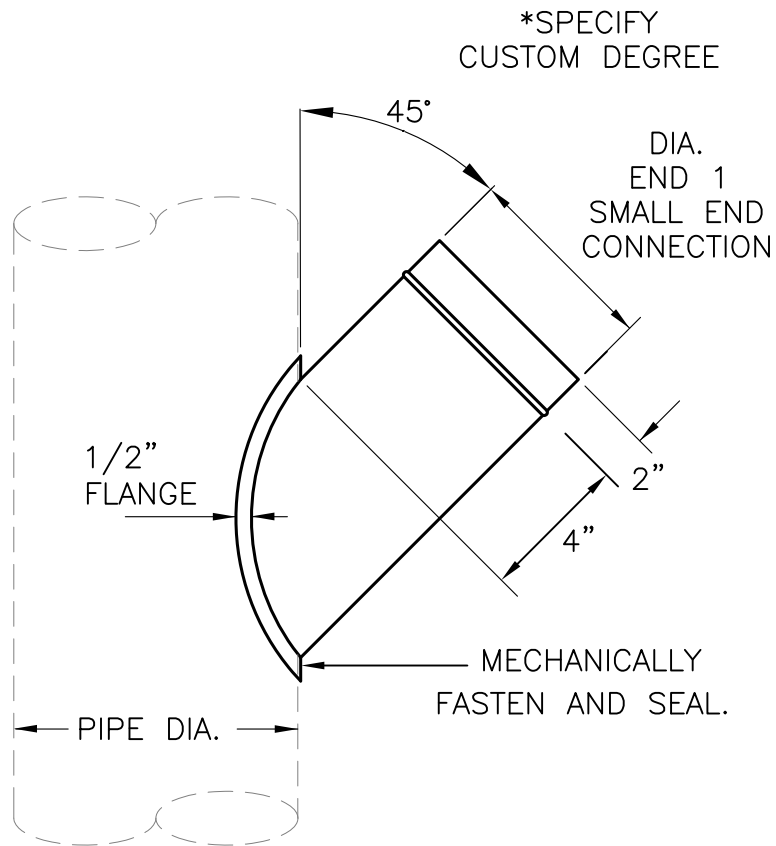
LAP, SPOTWELD AND SEAL



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SUBMITTAL SPIRAL FITTINGS

#67 FIELD MOUNTED LATERAL TAP

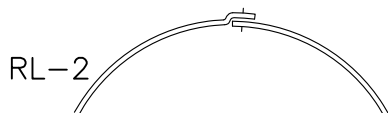


SYSTEM NUMBER/AREA : _____
MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

TRANSVERSE JOINT
SMALL END SLIP CONNECTION

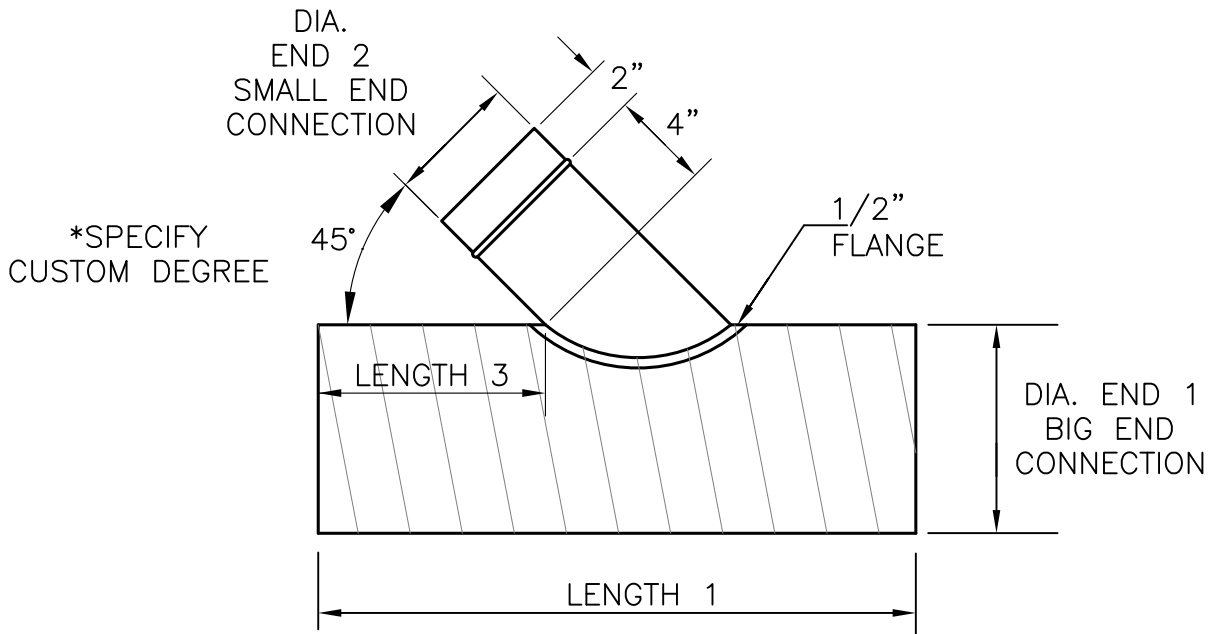
LONGITUDINAL SEAMS
LAP, SPOTWELD AND SEAL

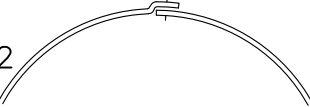


<u>TAG</u>	<u>QTY.</u>	<u>DIA. END 1</u>	<u>PIPE DIA.</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

SUBMITTAL SPIRAL FITTINGS

#54S LATERAL SHOP MOUNTED

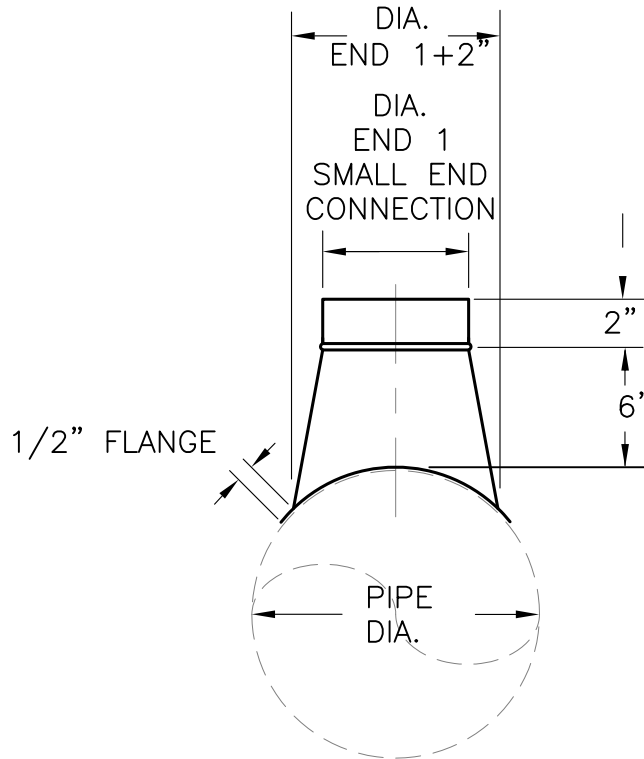


SYSTEM NUMBER/AREA :	TAG	QTY.	DIA. END 1	DIA. END 2	LENGTH 1	LENGTH 3
MATERIAL/STATIC WG :						
FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS						
<u>TRANSVERSE JOINT</u>						
SMALL END SLIP CONNECTION						
<u>LATERAL LONGITUDINAL SEAM</u>						
LAP, SPOTWELD AND SEAL						
RL-2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

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SUBMITTAL SPIRAL FITTINGS

#56T CONICAL TAP ON ROUND

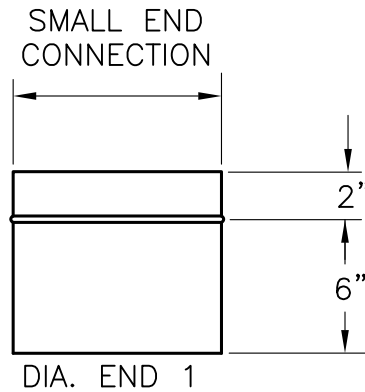


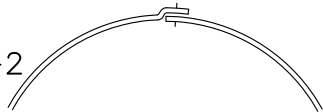
SYSTEM NUMBER/AREA :	<u>TAG</u>	<u>QTY.</u>	<u>DIA. END 1</u>	<u>PIPE DIA.</u>
MATERIAL/STATIC WG :				
FABRICATE IN ACCORDANCE WITH				
SMACNA DUCT CONSTRUCTION STANDARDS				
<u>TRANSVERSE JOINT</u>				
SMALL END SLIP CONNECTION				
<u>LONGITUDINAL SEAMS</u>				
LAP, SPOTWELD AND SEAL				
RL-2				

#57T CONICAL TAP ON RECTANGULAR DUCTWORK

SUBMITTAL SPIRAL FITTINGS

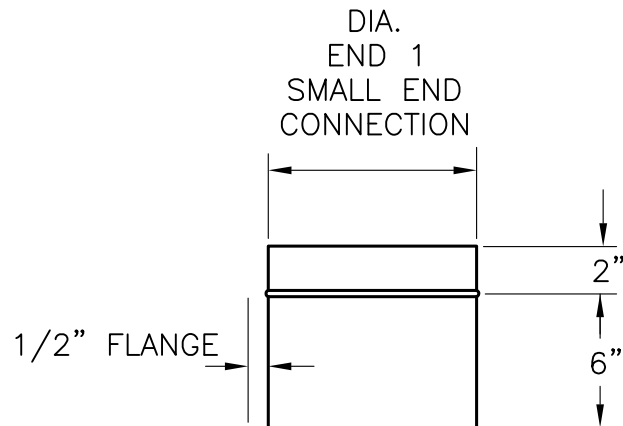
#100C EQUIPMENT COLLAR-(HOODS, AIR VALVES, ECT.)



	<u>TAG</u>	<u>QTY.</u>	<u>DIA. END 1</u>
SYSTEM NUMBER/AREA : _____	_____	_____	_____
MATERIAL/STATIC WG : _____	_____	_____	_____
FABRICATE IN ACCORDANCE WITH	_____	_____	_____
SMACNA DUCT CONSTRUCTION STANDARDS	_____	_____	_____
<u>TRANSVERSE JOINT</u>	_____	_____	_____
SMALL END SLIP CONNECTION	_____	_____	_____
<u>LONGITUDINAL SEAMS</u>	_____	_____	_____
LAP, SPOTWELD AND SEAL	_____	_____	_____
RL-2 	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

SUBMITTAL SPIRAL FITTINGS

#100T FIELD MOUNTED STRAIGHT TAP ON RECTANGULAR



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

TAG

QTY.

DIA. END 1

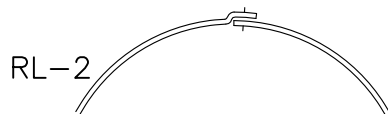
FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

TRANSVERSE JOINT

SMALL END SLIP CONNECTION

LONGITUDINAL SEAMS

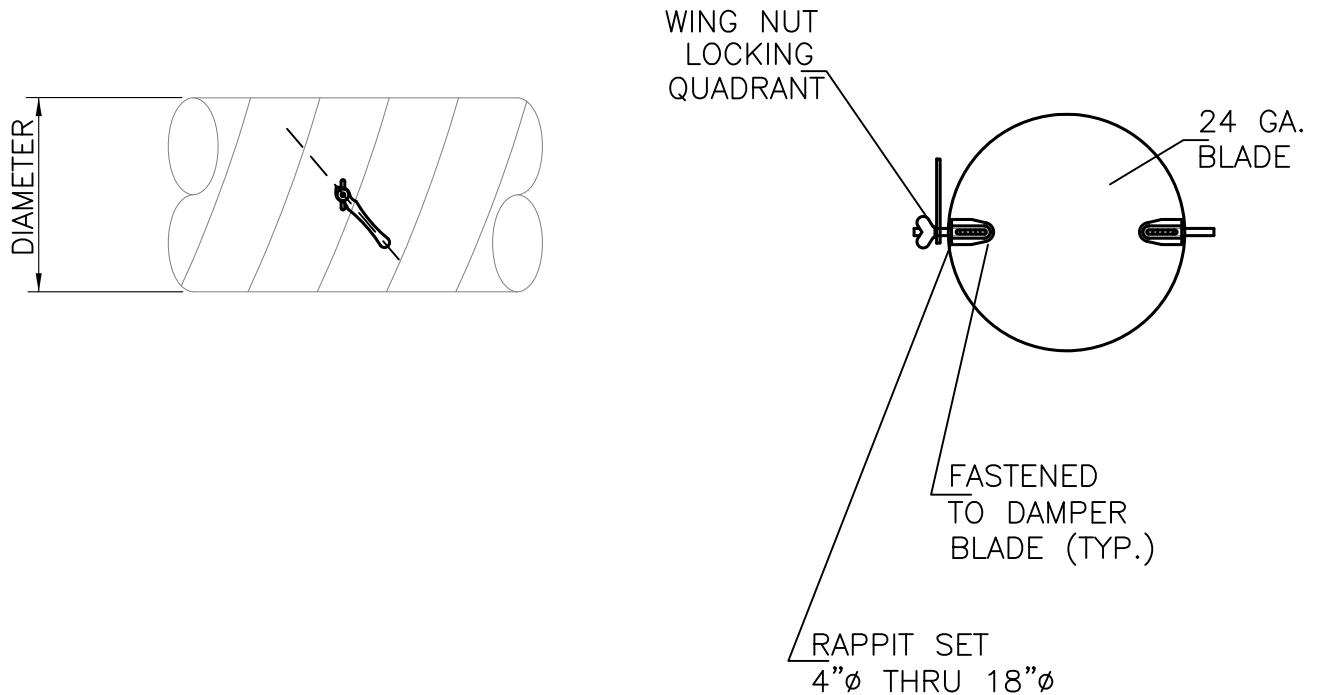
LAP, SPOTWELD AND SEAL



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SUBMITTAL SPIRAL FITTINGS

MANUAL VOLUME DAMPER 4"Ø TO 18"Ø

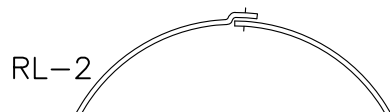


SYSTEM NUMBER/AREA : _____
MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

TRANSVERSE JOINT
SMALL END SLIP CONNECTION

LONGITUDINAL SEAMS
LAP, SPOTWELD AND SEAL



STANDARD SIZES 4"Ø THRU 18"Ø

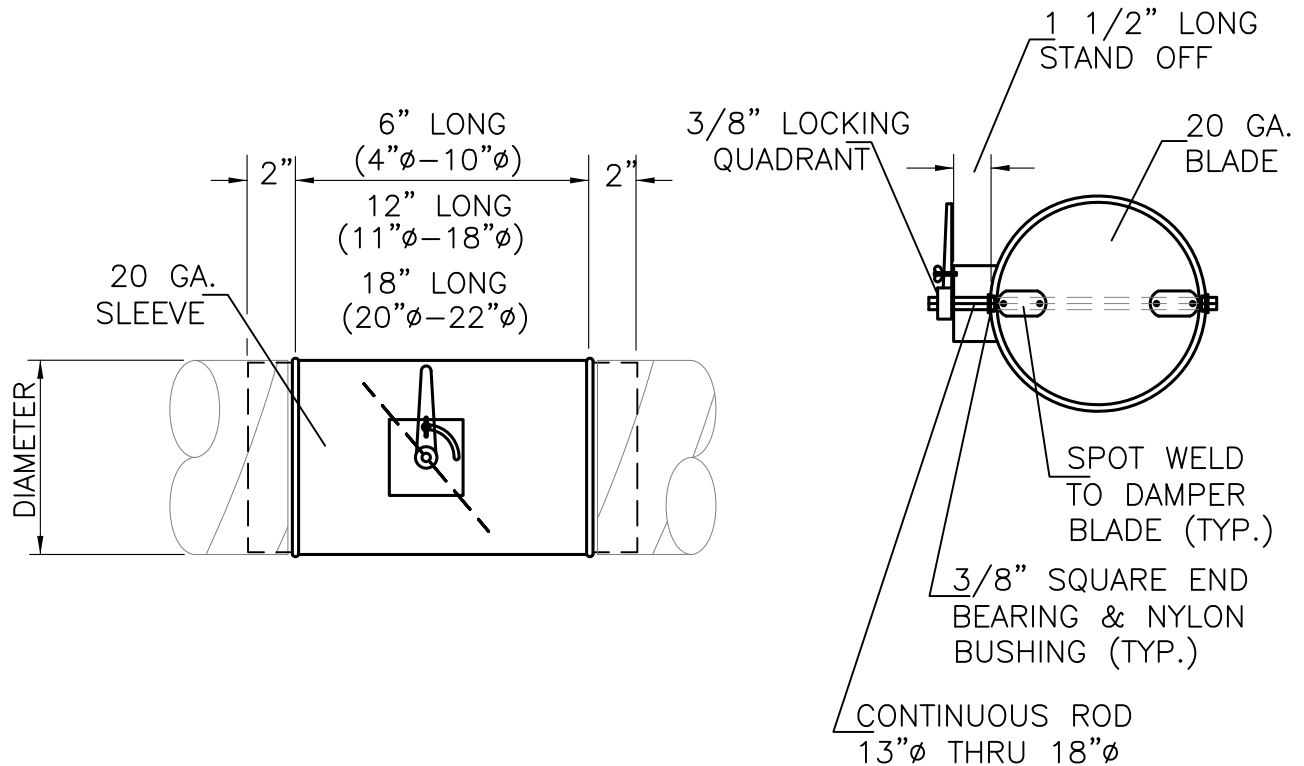
TAG QTY. DIAMETER

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

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SUBMITTAL SPIRAL FITTINGS

#100VD MANUAL VOLUME DAMPER 4"Ø TO 18"Ø



SYSTEM NUMBER/AREA : _____

MATERIAL/STATIC WG : _____

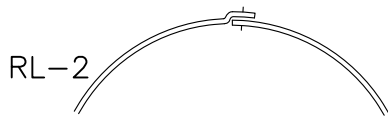
FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

TRANSVERSE JOINT

SMALL END SLIP CONNECTION

LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL



STANDARD SIZES 3"Ø THRU 22"Ø

<u>TAG</u>	<u>QTY.</u>	<u>DIAMETER</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

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