SONOCO PRODUCTS COMPANY

CONSTRUCTION PRODUCTS DIVISION
Hartsville, South Carolina

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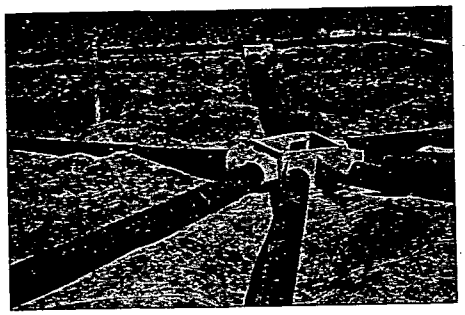
LONGVIEW, TEXAS • ATLANTA, GA. • BRANTFORD, ONTARIO • MEXICO, D. F.



SONOCO SONOAIRDUCT® FIBRE DUCT

for slab floor perimeter heating or combination heating and cooling systems

Sonoco Sonoairduct is a round, lightweight fibre duct that is aluminum foil lined and wrapped with black, asphalt filled, duplex kraft paper. It is especially designed for use as supply and return lines in gas and oil fired, slab floor perimeter heating or combination heating and cooling systems. It can also be adapted for use in spot cooling and ventilating systems. Sonoairduct meets and exceeds *F.H.A.* criteria and test requirements for products in this category.

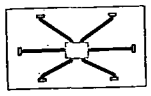
Sonoairduct *is aluminum* foil lined for lower co-efficient of air friction. The air friction loss of 8 in. Sonoairduct is 0.151 in. of water per 100 ft at a velocity of 800 ft per minute and 70 F. Sonoairduct has a heat conductivity of 0.46 Btu per hr per sq ft per deg F per inch of thickness. This low heat loss prevents hot spots in the slab above the encased duct.

Sonoairduct possesses a sound-deadening quality which minimizes transmission of noise from furnace and from room to room. As the wall thickness increases with diameter size, Sonoairduct is highly resistant to crushing.

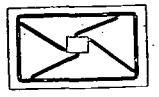
Sonoairduct Fibre Duct is available in 23 sizes—2 in. to 36 in. I.D. Unless other lengths are specified, shipments will be made in standard lengths of 18 ft. It is easy to cut to exact length with a hand or power saw on the job. Long lengths mean faster leveling and fewer joints to make and seal. Sonoairduct fits all standard metal bends, elbows, T's and registers. All installations should be made in accordance with Sonoairduct Manual No. 557, which is available upon request.

SONOAIRDUCT SIZES AND WEIGHTS

Inside Diameter	Wall Thickness	Approx. Weight Per 1,000 Feet	Approx. No. Ft. in 40 Ft. Carload
2"	.125"	373	103,033 ft.
3"	.125"	528	41,850 ft.
4"	.150"	624	25,056 ft.
5"	.150"	773	17,220 ft.
6"	.175"	1,068	11,898 ft.
7"	.200"	1,411	9,144 ft.
8"	.200"	1,606	6,984 ft.
9"	.225"	2,020	5,340 ft.
10"	.225"	2,237	4,500 ft.
11"	.225"	2,456	3,402 ft.
12"	.225"	2,678	3,024 ft.
14"	.250"	3,446	2,142 ft.
16"	.300"	4,686	1,620 ft.
18"	.300"	5,202	1,170 ft.
20"	.375"	7,249	954 ft.
22"	.375"	7,971	792 ft.
24"	.375"	8,685	702 ft.
26"	.375"	9,395	576 ft.
28"	.375"	10,108	414 ft.
30"	.400"	11,525	414 ft.
32"	.400"	12,233	324 ft.
34"	.400"	13,042	306 ft.
36"	.400"	14,136	306 ft.



For warm air perimeter loop systems



For warm air perimeter radial systems

CIRCULAR EQUIVALENTS OF RECTANGULAR DUCTS FOR EQUAL FRICTION AND CAPACITY

Side Rectangular Duct	6	7	8	9	10	11	12	13	14	15	16	17	18	19
6	6.6													
8	7.5	8.3	8.8											
10	8.4	9.1	9.8	10.4	10.9									
12	9.1	9.9	10.7	11.3	11.9	12.5	13.1							
14	9.8	10.7	11.5	12.2	12.9	13.5	14.2	14.7	15.3					
16	10.4	11.4	12.3	13.0	13.7	14.4	15.1	15.7	16.3	16.9	17.5			
18	11.0	11.9	12.9	13.7	14.5	15.3	16.0	16.6	17.3	17.9	18.5	19.1	19.7	
20	11.5	12.5	13.5	14.4	15.2	15.9	16.8	17.5	18.2	18.8	19.5	20.1	20.7	21.3
24	12.4	13.6	14.6	15.6	16.6	17.5	18.3	19.1	19.8	20.6	21.3	21.9	22.6	23.2
28	13.2	14.5	15.6	16.7	17.7	18.7	19.6	20.5	21.3	22.1	22.9	23.6	24.4	25.0
30	13.6	14.9	16.1	17.2	18.3	19.3	20.2	21.1	22.0	22.9	23.7	24.4	25.2	25.8
40	15.3	16.8	18.2	19.4	20.7	21.9	23.0	24.0	25.1	26.0	27.0	27.9	28.8	29.7
50	16.8	18.4	19.9	21.3	22.7	24.0	25.3	26.4	27.6	28.7	29.8	30.8	31.8	32.8
60	18.1	19.8	21.4	23.0	24.5	25.8	27.2	28.7	29.8	31.0	32.2	33.4	34.5	35.6
70	19.3	21.0	22.8	24.5	26.1	27.6	29.1	30.4	31.8	33.1	34.3	35.6	36.8	37.9

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1983

AMERIVENT

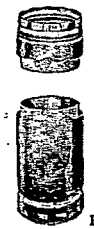
A Division of American Metal Products Company, Inc. — 6100 Bandini Blvd., Los Angeles 22, Calif.

AMERIVENT double-wall GAS VENT PIPE and FITTINGS

For Gas-Fired Water Heaters, Boilers, Furnaces, Space or Wall Heaters

Basically, AMERIVENT is a pipe-within-a-pipe. Like the familiar thermos bottle, it utilizes reflective surfaces possessing low heat-radiating values and separated by an insulating air-space which prevents excessive heat loss—and draft loss—from the vent. AMERIVENT'S thin aluminum inner pipe is designed to heat immediately to a fully-primed, fully-operating temperature, thus preventing condensation and dangerous spillage of waste gases into the structure through the draft hood. The heavy-gage galvanized outer pipe stays cool to protect against fire hazards and heat-damage and to permit low-clearance installation.

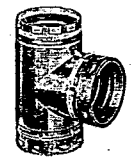
ROUND AMERIVENT



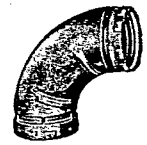
Round Amerivent



Round Americap



Tee



90° Elbow



45° Adjustable Elbow



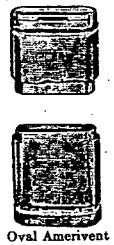
Adjustable "L" Offset

	PIPE SIZE:	AVAILABLE LENGTHS: 5'	4'	3'	24"	18"	12"	6"
Style "E"	3", 4", 5" & 6"							
	7" & 8"							
Style "R"	10" to 24"							

Shaded area indicates available sizes. Larger sizes available on request.

Two types of Round Amerivent—Style "E" and Style "R"—are available, depending on the size desired. Both types carry full *U-L* approval, both employ a high-purity aluminum inner-pipe enclosed in a galvanized steel outer-pipe and both require only 1 in. minimum clearance from combustibles when installed. In addition, both pipes feature the improved Amerivent SNAP-LOCK joint. To assemble, simply press mating ends together and snap—a secure gas-tight joint is formed. A complete line of fittings is available.

OVAL AMERIVENT



Oval Amerivent



Oval Americap



Tee



45° Standard Elbow



45° Flat Elbow



Oval-to-Round and Round-to-Oval Adaptor

SIZE	AVAILABLE LENGTHS: 5'	4'	3'	24"	18"	12"	6"
4"							
5"							

Shaded area indicates available sizes

Oval Amerivent is furnished in one model—Style "O"—in 4 in. and 5 in. sizes. It carries full *U-L* approval as a Type B gas vent requiring only 1 in. minimum clearance from combustibles. Style "O" Amerivent is also *UL*-approved as a Type B-W vent for use only with recessed (wall) gas heaters. In this application, 4 in. oval Amerivent can be installed in a 2 in. x 4 in. stud wall if used in conjunction with ceiling plate spacers and hold-down plate. A complete line of fittings is available, including adaptors for converting to or from Round Amerivent.