

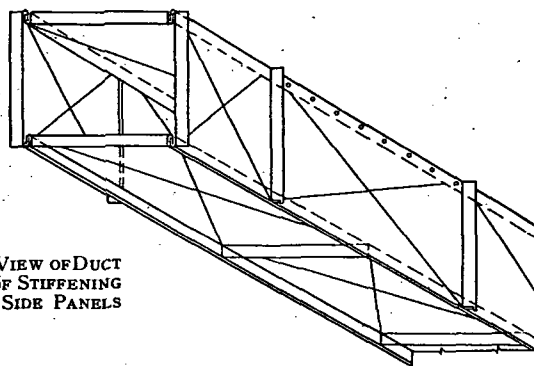


FIG. 6. ISOMETRIC VIEW OF DUCT SHOWING LOCATION OF STIFFENING SEAMS ON TOP AND SIDE PANELS OF DUCT

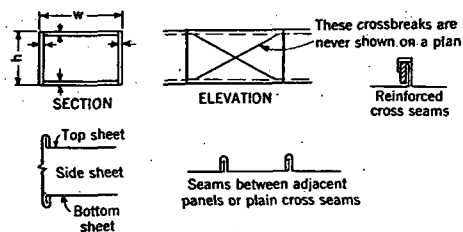


FIG. 7. DETAILS OF SEAMS

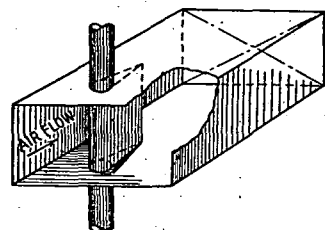


FIG. 9. INSTALLATION OF EASEMENT IN DUCT AROUND OBSTRUCTION

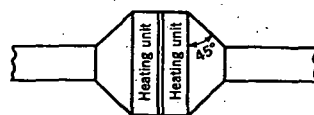


FIG. 8. METHOD OF INSTALLING HEATING UNIT

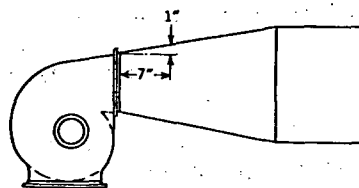


FIG. 10. FAN DISCHARGE CONNECTION

CHAPTER 30. AIR DUCT DESIGN

TABLE 4. SHEET METAL GAGES FOR RECTANGULAR DUCT CONSTRUCTION^a

GAGE	WIDTH OF DUCT	SEAM	REINFORCED SEAM
26	Up to 12 in.		
24	13 in. to 30 in.	1	
22	31 in. to 48 in.	1	
22	49 in. to 60 in.	1½	⅛ in. x 1½ in.
20	61 in. to 90 in.	1½	⅛ in. x 1½ in.

^aIf panels are not cross-braken two gages heavier material should be used.

TABLE 5. WEIGHTS OF SHEET METAL USED FOR DUCT CONSTRUCTION

U. S. STD. GAGE	SHEET STEEL		GALVANIZED IRON	
	APPROXIMATE THICKNESS IN.	Weight per Square Foot		Weight per Square Foot
		Ounces	Pounds	
30	0.0120	8	0.5000	10.5
28	0.0149	10	0.6250	12.5
26	0.0179	12	0.7500	14.5
24	0.0239	16	1.0000	18.5
22	0.0299	20	1.2500	22.5
20	0.0359	24	1.5000	26.5
18	0.0478	32	2.0000	34.5
16	0.0598	40	2.5000	42.5
14	0.0749	50	3.1250	52.5
12	0.1046	70	4.3750	72.5
10	0.1345	90	5.6250	92.5

TABLE 6. WEIGHTS AND THICKNESSES OF STANDARD COPPER SHEETS^a
Rolled to Weight

WEIGHT PER SQUARE FOOT		THICKNESS, INCHES		NEAREST GAGE NO.	
Ounces	Pounds	Decimal Equivalent	Nearest Fraction	B. & S.	Stubs
10	0.625	0.0135	1/64	27	29
12	0.750	0.0162	1/64	26	27
14	0.875	0.0189	1/64	25	26
16	1.000	0.0216	1/32	23	24
18	1.125	0.0243	1/32	22	23
20	1.250	0.0270	1/32	21	22
24	1.500	0.0324	1/32	20	21
28	1.750	0.0378	1/32	19	20
32	2.000	0.0432	3/64	17	19
36	2.250	0.0486	3/64	16	18
40	2.500	0.0540	3/64	15	17
44	2.750	0.0594	1/16	15	17
48	3.000	0.0648	1/16	14	16
56	3.500	0.0756	5/64	13	15
64	4.000	0.0864	3/16	11	14

^aVariations from these weights must be expected in practice.