

FLATOVALANDROUND SPIRAL SPECIFICATIONS & CONNECTIONS

MATERIAL AND GAUGE CAPACITIES

Flat Oval Duct Description

Flat oval spiral duct has been designed to be used in a multitude of applications where architectural sound visibility is necessary or space restricts the use of round spiral duct. Flat oval spiral duct is fabricated using a lock seam method, to reinforce its strength and durability. Refer to the chart below for specific materials, gauges and lengths.

Material	Thickness	ASTM	Type	Length
Galvanized	28-16 Gauge	A-653	G80 - G90	1' to 10'
Paint Grip	24-18 Gauge	A-653	A60	1' to 10'
Aluminum	24-16 Gauge	B-316	3003 H-14	1' to 10'
Stainless Steel	24-20 Gauge	A-240	304 or 316	1' to 10'

Flat Oval Recommended Size and Gauge Chart Below.

Major Dimension Duct Width	Spiral Seamduct Gauge	Gauges of Fittings
4" to 24"	24	24
28" to 36"	22	22
38" to 48"	22	20
50" to 60"	20	20
62" to 70"	20	18
72" and up	18	18

Ring Connection

Flanged ring connectors are fabricated from 16 gauge material matching the type of material used for the round or flat oval spiral duct in your order. These flanges are used for assembling round and flat oval spiral duct and fittings. They are attached to the end of the duct with mechanical fasteners. When the ring connection is provided for double wall round and flat oval spiral duct or fittings, a secondary factory installed flange is affixed. This keeps the inner liner concentric and eliminates the need to make an additional connection at the inner wall.



Coupling Connection

Pipe to pipe connections are made by using a fitting sized coupling that slips inside the mating duct sections. A stop bead runs around the middle of the coupling which is then centered between connections. Secure the connection by using mechanical fasteners, 1/2" back from the stop bead.



FLAT OVAL AND ROUND SPIRAL FITTINGS

F OE-90-S | F OE-60-4 | F OE-45-3
 F OE-90-2Mitered 90°
 F OT-1Straight Tee
 FOC-2 Cross
 F OT-1RRReducing Tee
 F OCON-T-1Conical Tee

F ORConcentric Reducer
FOER Eccentric Reducer
F OCON-T-1R Reducing Conical Tee
F OLC-2Lateral Cross
F OL-1Lateral
F ON-1for Pipe Fitting End Cap

F OL-1RRReducing Lateral
F OCON-L-1Conical Lateral
F OCON-L-1R Reducing Conical Lateral
F OCSTConical Saddle Tap
F OC-2RRReducing Cross
F OCON-C-2Conical Cross

F OS-1for Pipe Fitting Coupling
F OSTsSaddle Tap
F OSETOffset
F OTRECor F OTRNDOval to Rectangular Oval to Round
F OGB TGillie Box Tap
F OLSLateral Saddle Tap

Aluminum: 24 thru 18 ga. (0.6 thru 1.2mm)
Galvanized Steel: 28 thru 18 ga. (0.4 thru 1.2mm)
Paint Grip: 28 thru 18 ga. (0.4 thru 1.2mm)

Minor Axis	6	8	10	12	14	16	18	20	22	24
Stock Diameter										
16	21.8									
17	23.4	22.2	21.1	19.9						
18	25	23.8	22.7	21.5	20.3					
19	26.6	25.4	24.1	23.1	21.9					
20	28.1	27.0	25.8	24.7	23.5	22.3				
22	31.3	30.1	29.0	27.8	26.7	25.5	24.3	23.2		
24	34.5	33.3	32.1	31.0	29.8	28.7	27.5	26.3	25.2	
26	37.6	36.5	35.3	34.1	33.0	31.8	30.7	29.5	28.3	27.2
28	40.8	39.6	38.5	37.3	36.1	35.0	33.8	32.7	31.5	30.3
30	44.0	42.8	41.6	40.5	39.3	38.1	37.0	35.8	34.7	33.5
32	47.1	46.0	44.8	43.6	42.5	41.3	40.1	39.0	37.8	36.7
34	50.3	49.1	48.0	46.8	45.6	44.5	43.3	42.1	41	39.8
36	53.5	52.3	51.1	50.0	48.8	47.6	46.5	45.3	44.1	43.0
38	56.6	55.5	54.3	53.1	52	50.8	49.6	48.5	47.3	46.1
40	59.8	58.6	57.5	56.3	55.1	54	52.8	51.6	50.5	49.3
42	62.9	61.8	60.6	59.5	58.3	57.1	56.0	54.8	53.6	52.5
44	66.1	64.9	63.8	62.6	61.5	60.3	59.1	58.0	56.8	55.6
46	69.3	68.1	66.9	65.8	64.6	63.5	62.3	61.1	60.0	58.8
48	72.4	71.3	70.1	68.9	67.8	66.6	65.5	64.3	63.1	62.0
50	75.6	74.4	73.3	72.1	70.9	69.8	68.6	67.5	66.3	65.1
52	78.8	77.6	76.4	75.3	74.1	72.9	71.8	70.6	69.5	68.3
54	81.9	80.8	79.6	78.4	77.3	76.1	74.9	73.8	72.6	71.5
56			82.8	81.6	80.4	79	78.1	76.9	75.8	74.6
58						82.4	81.3	80.1	78.9	77.8
60								83.3	82.1	80.9