

MAXIMUM ALLOWABLE RESTRAINT SPACING – DUCTS

Table A6.6-1; Maximum Allowable Seismic Restraint Spacing for Rectangular Duct
(Based on Gross Buckling of the Duct)

Seismic Coefficient C_s				0.25	0.50	0.75	1.00	1.50	2.00
Seismic Hazard Level SHL				D	C	B	A	----	----
Duct Width (in)	Duct Height (in)	Duct Area (ft ²)	Duct Weight w_p (lb/ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)
28	28	5.4	24	40	40	40	40	40	40
30	30	6.3	26	40	40	40	40	40	40
42	42	12	36	40	40	40	40	40	40
54	54	20	47	40	40	40	40	40	40
60	60	25	54	40	40	40	40	40	40
84	84	49	103	40	40	40	40	40	40
96	96	64	129	40	40	40	40	40	40
40	20	6	26	40	40	40	40	40	40
54	28	11	35	40	40	40	40	40	40
60	30	13	39	40	40	40	40	40	40
84	42	25	74	40	40	40	40	40	40
96	48	32	97	40	40	40	40	40	40
108	54	41	110	40	40	40	40	40	40
120	60	50	121	40	40	40	40	40	40

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**Table A6.6-2; Maximum Allowable Seismic Restraint Spacing for Round Duct
(Based on Gross Buckling of the Duct)**

Seismic Coefficient C_s			0.25	0.50	0.75	1.00	1.50	2.00
Seismic Hazard Level SHL			D	C	B	A	----	----
Duct Diameter (in)	Duct Area (ft ²)	Duct Weight w_p (lb/ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)
30	4.9	20	40	40	40	40	40	40
33	5.9	22	40	40	40	40	40	40
36	7.1	24	40	40	40	40	40	40
48	13	33	40	40	40	40	40	40
60	20	41	40	40	40	40	40	40
84	38	69	40	40	40	40	40	40

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