

ROUND DUCT DATA

Table A3.2-1; Maximum Recommended Round Duct Weights for Sizing Seismic Restraints
[Maximum Values of Tables A3.2.2 & A3.2.6]

Duct Diameter (in)	Duct Area (ft ²)	Duct Weight (lb/ft)
30	4.9	20
33	5.9	22
36	7.1	24
48	12.6	33
60	19.6	41
84	38.5	69

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SECTION – A3.2

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**Table A3.2-2; Non-Insulated Round Duct: 16 Gage Steel
(Does Not Include Reinforcement Steel)**

Duct Diameter (in)	Duct Area (ft ²)	Duct Weight (lb/ft)
30	4.9	20
36	7.1	24
42	9.6	28
48	12.6	33
54	15.9	37
60	19.6	41
66	23.8	45
72	28.3	49
78	33.2	53
84	38.5	57
90	44.2	61
96	50.3	65
102	56.7	69
108	63.6	73

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**Table A3.2-3; Insulated Round Duct: 16 Gage Steel & 1.5 pcf Insulation
(Does Not Include Reinforcement Steel)**

Duct Diameter (in)	Duct Area (ft ²)	Bare Duct + 1-1/4" Insulation Weight (lb/ft)	Bare Duct + 2" Insulation Weight (lb/ft)	Bare Duct + 3" Insulation Weight (lb/ft)	Bare Duct + 4" Insulation Weight (lb/ft)
30	4.9	21.6	22.3	23.3	24.3
36	7.1	25.9	26.7	27.9	29.1
42	9.6	30.2	31.2	32.6	34.0
48	12.6	34.5	35.7	37.2	38.8
54	15.9	38.8	40.1	41.9	43.7
60	19.6	43.1	44.6	46.5	48.5
66	23.8	47.4	49.0	51.2	53.4
72	28.3	51.7	53.5	55.8	58.2
78	33.2	56.0	57.9	60.5	63.1
84	38.5	60.3	62.4	65.2	67.9
90	44.2	64.7	66.9	69.8	72.8
96	50.3	69.0	71.3	74.5	77.6
102	56.7	73.3	75.8	79.1	82.5
108	63.6	77.6	80.2	83.8	87.3

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**Table A3.2-4; Insulated Round Duct: 16 Gage Steel & 3 pcf Insulation
(Does Not Include Reinforcement Steel)**

Duct Diameter (in)	Duct Area (ft ²)	Bare Duct + 1" Insulation Weight (lb/ft)	Bare Duct + 2" Insulation Weight (lb/ft)	Bare Duct + 3" Insulation Weight (lb/ft)	Bare Duct + 4" Insulation Weight (lb/ft)
30	4.9	22.3	24.3	26.2	28.2
36	7.1	26.7	29.1	31.5	33.8
42	9.6	31.2	34.0	36.7	39.4
48	12.6	35.7	38.8	41.9	45.1
54	15.9	40.1	43.7	47.2	50.7
60	19.6	44.6	48.5	52.4	56.4
66	23.8	49.0	53.4	57.7	62.0
72	28.3	53.5	58.2	62.9	67.6
78	33.2	57.9	63.1	68.2	73.3
84	38.5	62.4	67.9	73.4	78.9
90	44.2	66.9	72.8	78.6	84.5
96	50.3	71.3	77.6	83.9	90.2
102	56.7	75.8	82.5	89.1	95.8
108	63.6	80.2	87.3	94.4	101.4

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**Table A3.2-5; Insulated Round Duct: 16 Gage Steel & 6 pcf Insulation
(Does Not Include Reinforcement Steel)**

Duct Diameter (in)	Duct Area (ft ²)	Bare Duct + 1-1/4" Insulation Weight (lb/ft)	Bare Duct + 2" Insulation Weight (lb/ft)
30	4.9	25.2	28.2
36	7.1	30.3	33.8
42	9.6	35.3	39.4
48	12.6	40.4	45.1
54	15.9	45.4	50.7
60	19.6	50.5	56.4
66	23.8	55.5	62.0
72	28.3	60.6	67.6
78	33.2	65.6	73.3
84	38.5	70.7	78.9
90	44.2	75.7	84.5
96	50.3	80.7	90.2
102	56.7	85.8	95.8
108	63.6	90.8	101.4

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Table A3.2-6; SMACNA¹ – Maximum Weight for Round Duct

Duct Diameter (in)	Duct Area (ft ²)	Duct Weight (lb/ft)
33	5.9	14
36	7.1	16
48	12.6	21
60	19.6	34
84	38.5	69

¹ SMACNA, Seismic Restraint Manual – Guidelines for Mechanical Systems with Addendum No. 1 2nd Edition; Sheet Metal and Air Conditioning Contractors' National Association, Inc., 4201 Lafayette Center Drive, Chantilly, Virginia 20151-1209, 1998.

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