

RECTANGULAR DUCT DATA

Table A3.1-1; Maximum Recommended Rectangular Duct Weights for Sizing Seismic Restraints [Maximum Values of Tables A3.1.2 & A3.1.7]

Duct Width (in)	Duct Height (in)	Duct Area (ft ²)	Duct Weight (lb/ft)
28	28	5.4	24
30	30	6.3	26
42	42	12.3	36
54	54	20.3	47
60	60	25.0	54
84	84	49.0	103
96	96	64.0	129
40	20	5.6	26
54	28	10.5	35
60	30	12.5	39
84	42	24.5	74
96	48	32.0	97
108	54	40.5	110
120	60	50.0	121

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**Table A3.1-2; Non-Insulated Rectangular Duct: 16 Gage Steel
(Does Not Include Reinforcement Steel)**

Duct Width (in)	Duct Height (in)	Duct Area (ft ²)	Duct Weight (lb/ft)
28	28	5.4	24
30	30	6.3	26
42	42	12.3	36
54	54	20.3	47
60	60	25.0	52
84	84	49.0	72
96	96	64.0	83
40	20	5.6	26
54	28	10.5	35
60	30	12.5	39
84	42	24.5	54
96	48	32.0	62
108	54	40.5	70
120	60	50.0	78

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**Table A3.1-3; Insulated Rectangular Duct: 16 Gage Steel & 1.5 pcf Insulation
(Does Not Include Reinforcement Steel)**

Duct Width (in)	Duct Height (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)
28	28	5.4	25.6	26.5	27.7	28.8
30	30	6.3	27.4	28.4	29.6	30.9
42	42	12.3	38.4	39.7	41.5	43.2
54	54	20.3	49.4	51.1	53.3	55.6
60	60	25.0	54.9	56.8	59.3	61.8
84	84	49.0	76.8	79.5	83.0	86.5
96	96	64.0	87.8	90.8	94.8	98.8
40	20	5.6	27.4	28.4	29.6	30.9
54	28	10.5	37.5	38.8	40.5	42.2
60	30	12.5	41.2	42.6	44.4	46.3
84	42	24.5	57.6	59.6	62.2	64.8
96	48	32.0	65.9	68.1	71.1	74.1
108	54	40.5	74.1	76.6	80.0	83.4
120	60	50.0	82.3	85.1	88.9	92.6

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**Table A3.1-4; Insulated Rectangular Duct: 16 Gage Steel & 3 pcf Insulation
(Does Not Include Reinforcement Steel)**

Duct Width (in)	Duct Height (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)
28	28	5.4	26.5	28.8	31.2	33.5
30	30	6.3	28.4	30.9	33.4	35.9
42	42	12.3	39.7	43.2	46.7	50.2
54	54	20.3	51.1	55.6	60.1	64.6
60	60	25.0	56.8	61.8	66.8	71.8
84	84	49.0	79.5	86.5	93.5	100.5
96	96	64.0	90.8	98.8	106.8	114.8
40	20	5.6	28.4	30.9	33.4	35.9
54	28	10.5	38.8	42.2	45.6	49.0
60	30	12.5	42.6	46.3	50.1	53.8
84	42	24.5	59.6	64.8	70.1	75.3
96	48	32.0	68.1	74.1	80.1	86.1
108	54	40.5	76.6	83.4	90.1	96.9
120	60	50.0	85.1	92.6	100.1	107.6

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**Table A3.1-5; Insulated Rectangular Duct: 16 Gage Steel & 6 pcf Insulation
(Does Not Include Reinforcement Steel)**

Duct Width (in)	Duct Height (in)	Duct Area (ft ²)	Bare Duct + 1" Insulation Weight (lb/ft)	Bare Duct + 2" Insulation Weight (lb/ft)
28	28	5.4	28.8	33.5
30	30	6.3	30.9	35.9
42	42	12.3	43.2	50.2
54	54	20.3	55.6	64.6
60	60	25.0	61.8	71.8
84	84	49.0	86.5	100.5
96	96	64.0	98.8	114.8
40	20	5.6	30.9	35.9
54	28	10.5	42.2	49.0
60	30	12.5	46.3	53.8
84	42	24.5	64.8	75.3
96	48	32.0	74.1	86.1
108	54	40.5	83.4	96.9
120	60	50.0	92.6	107.6

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**Table A3.1-6; Lagged Rectangular Duct: 16 Gage Steel & 5/8" Gypsum Board Lagging
(Does Not Include Reinforcement Steel)**

Duct Width (in)	Duct Height (in)	Duct Area (ft ²)	Bare Duct + 1 Layer Gypsum Board Weight (lb/ft)	Bare Duct + 2 Layers Gypsum Board Weight (lb/ft)	Bare Duct + 3 Layers Gypsum Board Weight (lb/ft)
28	28	5.4	42.4	60.6	78.8
30	30	6.3	45.4	64.9	84.5
42	42	12.3	63.6	90.9	118.3
54	54	20.3	81.7	116.9	152.0
60	60	25.0	90.8	129.9	168.9
84	84	49.0	127.1	181.8	236.5
96	96	64.0	145.3	207.8	270.3
40	20	5.6	45.4	64.9	84.5
54	28	10.5	62.1	88.7	115.4
60	30	12.5	68.1	97.4	126.7
84	42	24.5	95.4	136.4	177.4
96	48	32.0	109.0	155.9	202.7
108	54	40.5	122.6	175.3	228.1
120	60	50.0	136.2	194.8	253.4

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Table A3.1-7; SMACNA¹ – Maximum Weight for Rectangular Duct

Duct Width (in)	Duct Height (in)	Duct Area (ft ²)	Duct Weight (lb/ft)
30	30	6.3	17
42	42	12.3	29
54	54	20.3	46
60	60	25.0	54
84	84	49.0	103
96	96	64.0	129
54	28	10.5	34
60	30	12.5	39
84	42	24.5	74
96	48	32.0	97
108	54	40.5	110
120	60	50.0	121

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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