

WEIGHT ESTIMATE DATA (US)

		Metric
Plywood weight, lb per square foot per inch thickness	3.38	650 kg/m3
Framing weight, lb per square foot per inch thickness	3.12	600 kg/m3
Foam weight, lb per square foot per inch thickness	0.18	35 kg/m3
Margin for glue, screws, etc	5%	
Very light framing, as % of area (see diagram)	5%	
Light framing, as % of area (see diagram)	15%	
Heavy framing, as % of area (see diagram)	30%	

Single-Skin Panels

Actual framing thickness 0.75 in				Actual framing thickness 1.50 in			
Skin thickness in	Weight no Framing lbs/ft2	Weight w. very light framing lbs/ft2	Weight with light framing lbs/ft2	Skin thickness in	Weight no Framing lbs/ft2	Weight w. very light framing lbs/ft2	Weight with light framing lbs/ft2
0.125	0.4	0.6	0.8	0.125	0.4	0.7	1.2
0.156	0.5	0.7	0.9	0.156	0.5	0.8	1.3
0.250	0.8	1.0	1.3	0.250	0.8	1.1	1.6
0.375	1.3	1.5	1.7	0.375	1.3	1.6	2.1
0.500	1.7	1.9	2.1	0.500	1.7	2.0	2.5
0.750	2.5	2.8	3.0	0.750	2.5	2.9	3.4

Sandwich Panels (with foam)

Actual framing thickness 0.75 in				Actual framing thickness 1.50 in			
1st skin thickness in	2nd skin thickness in	Weight with light framing lbs/ft2	Weight with heavy framing lbs/ft2	1st skin thickness in	2nd skin thickness in	Weight with light framing lbs/ft2	Weight with heavy framing lbs/ft2
0	0.125	0.9	1.3	0	0.125	1.4	2.1
0	0.156	1.0	1.4	0	0.156	1.5	2.2
0	0.250	1.4	1.7	0	0.250	1.9	2.6
0	0.375	1.8	2.2	0	0.375	2.3	3.0
0	0.500	2.3	2.6	0	0.500	2.8	3.5
0	0.750	3.2	3.5	0	0.750	3.6	4.3
0.125	0.125	1.4	1.7	0.125	0.125	1.9	2.6
0.125	0.156	1.5	1.8	0.125	0.156	2.0	2.7
0.125	0.250	1.8	2.2	0.125	0.250	2.3	3.0
0.125	0.375	2.3	2.6	0.125	0.375	2.8	3.5
0.125	0.500	2.7	3.1	0.125	0.500	3.2	3.9
0.125	0.750	3.6	3.9	0.125	0.750	4.1	4.8
0.156	0.156	1.6	1.9	0.156	0.156	2.1	2.8
0.156	0.250	1.9	2.3	0.156	0.250	2.4	3.1
0.156	0.375	2.4	2.7	0.156	0.375	2.9	3.6
0.156	0.500	2.8	3.2	0.156	0.500	3.3	4.0
0.156	0.750	3.7	4.1	0.156	0.750	4.2	4.9
0.250	0.250	2.3	2.6	0.250	0.250	2.8	3.5
0.250	0.375	2.7	3.1	0.250	0.375	3.2	3.9
0.250	0.500	3.2	3.5	0.250	0.500	3.6	4.3
0.250	0.750	4.0	4.4	0.250	0.750	4.5	5.2
0.375	0.375	3.2	3.5	0.375	0.375	3.6	4.3
0.375	0.500	3.6	3.9	0.375	0.500	4.1	4.8
0.375	0.750	4.5	4.8	0.375	0.750	5.0	5.7
0.500	0.500	4.0	4.4	0.500	0.500	4.5	5.2
0.500	0.750	4.9	5.3	0.500	0.750	5.4	6.1
0.750	0.750	5.8	6.2	0.750	0.750	6.3	7.0

For .032" aluminum skin, add 0.45 lbs/ft2
 For .040" aluminum skin, add 0.55 lbs/ft2

WEIGHT ESTIMATE DATA (Metric)

Plywood density, kg/m3	650
Framing density, kg/m3	600
Foam density, kg/m3	35
Margin for glue, screws, etc	5%
Very light framing, as % of area (see diagram)	5%
Light framing, as % of area (see diagram)	15%
Heavy framing, as % of area (see diagram)	30%

Single-Skin Panels

Actual framing thickness 20 mm				Actual framing thickness 44 mm			
Skin thickness mm	Weight no Framing kg/m2	Weight w. very light framing kg/m2	Weight with light framing kg/m2	Skin thickness mm	Weight no Framing kg/m2	Weight w. very light framing kg/m2	Weight with light framing kg/m2
3	2.0	2.7	3.9	3	2.0	3.4	6.2
4	2.6	3.4	4.6	4	2.6	4.1	6.9
6	3.9	4.7	6.0	6	3.9	5.5	8.3
9	5.9	6.8	8.0	9	5.9	7.5	10.3
12	7.8	8.8	10.1	12	7.8	9.6	12.3
18	11.7	12.9	14.2	18	11.7	13.7	16.4

Sandwich Panels (with foam)

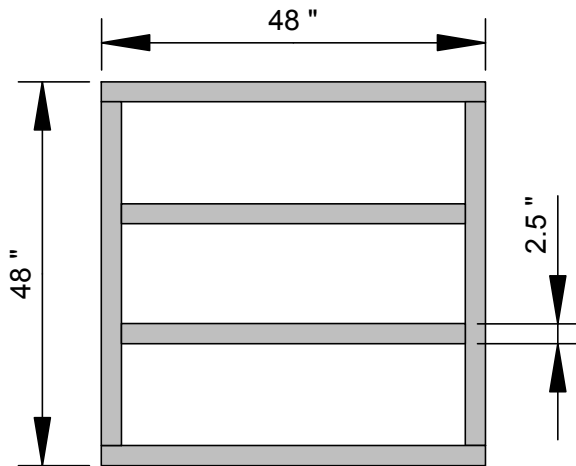
Actual framing thickness 20 mm				Actual framing thickness 44 mm			
1st skin thickness mm	2nd skin thickness mm	Weight with light framing kg/m2	Weight with heavy framing kg/m2	1st skin thickness mm	2nd skin thickness mm	Weight with light framing kg/m2	Weight with heavy framing kg/m2
0	3	4.6	6.3	0	3	7.6	11.5
0	4	5.2	7.0	0	4	8.3	12.2
0	6	6.6	8.4	0	6	9.6	13.5
0	9	8.7	10.4	0	9	11.7	15.6
0	12	10.7	12.5	0	12	13.7	17.6
0	18	14.8	16.6	0	18	17.8	21.7
3	3	6.6	8.4	3	3	9.6	13.5
3	4	7.3	9.1	3	4	10.3	14.2
3	6	8.7	10.4	3	6	11.7	15.6
3	9	10.7	12.5	3	9	13.7	17.6
3	12	12.8	14.5	3	12	15.8	19.7
3	18	16.8	18.6	3	18	19.9	23.8
4	4	8.0	9.8	4	4	11.0	14.9
4	6	9.3	11.1	4	6	12.4	16.3
4	9	11.4	13.2	4	9	14.4	18.3
4	12	13.4	15.2	4	12	16.5	20.4
4	18	17.5	19.3	4	18	20.5	24.5
6	6	10.7	12.5	6	6	13.7	17.6
6	9	12.8	14.5	6	9	15.8	19.7
6	12	14.8	16.6	6	12	17.8	21.7
6	18	18.9	20.7	6	18	21.9	25.8
9	9	14.8	16.6	9	9	17.8	21.7
9	12	16.8	18.6	9	12	19.9	23.8
9	18	20.9	22.7	9	18	24.0	27.9
12	12	18.9	20.7	12	12	21.9	25.8
12	18	23.0	24.8	12	18	26.0	29.9
18	18	27.1	28.9	18	18	30.1	34.0

For 0.8mm aluminum skin, add 2.2 kg/m2

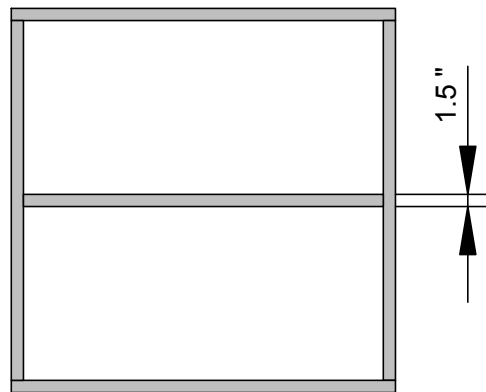
For 1.0mm aluminum skin, add 2.7 kg/m2

WEIGHT DATA (US)

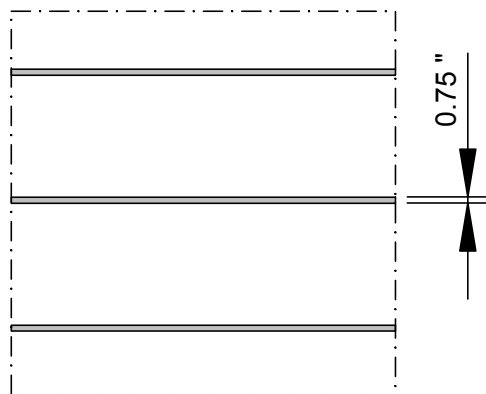
	Data Source	lb	kg
Wheels	Northern Tool		
Wheel and tire, 205/70x15, D range - 1710lb capacity, each		44	20
Wheel and tire, 205/70x14, D range - 1710lb capacity, each		37	17
Wheel and tire, 175/70x13, C range - 1360lb capacity, each		32	15
Wheel and tire, 175/70x13, B range - 1100lb capacity, each		29	13
Wheel and tire, 5.30x12, C range - 1045lb capacity, each		24	11
Wheel and tire, 4.80x12, B range - 780lb capacity, each		20	9.1
Wheel and tire, 4.80x8, C range - 745lb capacity, each		12	5.4
Note: capacities and weights are PER WHEEL			
Axles	Dexter/Northern Tool		
Rubber torsion axle, #8, no brakes, 1100lb capacity, 60" over hubfaces		53	24
Rubber torsion axle, #8, electric brakes, 1100lb capacity, 60" over hubfaces		75	34
Rubber torsion axle, #9, no brakes, 2200lb capacity, 60" over hubfaces		68	31
Rubber torsion axle, #9, electric brakes, 2200lb capacity, 60" over hubfaces		89	40
Leaf sprung tube axle, no brakes, 2000lb capacity, 60" track, complete		65	30
Note: thanks to Dexter who provided weight data for the examples above.			
Chassis Hardware	Northern Tool		
Coupler, 2" ball, 3500lb, straight		4.5	2.0
Coupler, 2" ball, 5000lb, A-frame		7.0	3.2
Coupler, 2" ball, 5000lb, A-frame, heavy duty		14	6.4
Jack, side mount snap-ring, 2000lb		13	5.9
Jack, top mount, A-frame, 2000lb		11	5.0
Caster for jack		6.0	2.7
Stabiliser jacks (corner steadies), 1000lb, pair		10	4.5
Fender, round, steel, 23.5"L x 7"W x 6.5"H, each		6.0	2.7
Fender, round, steel, 27.5"L x 8"W x 11"H, each		9.0	4.1
Fender, round, steel, 32"L x 9"W x 16"H, each		16	7.3



'HEAVY' FRAMING (30% of area)



'LIGHT' FRAMING (15% of area)



'VERY LIGHT' FRAMING (5% of area)