

## WEIGHT OF WALL AND PARTITIONS IN (psf)

Material		Weight
<b>FRAME PARTITIONS</b>	Movable Steel Partitions	4
	Wood or Steel Studs, 1/2" Gyp Board Each Side	8
	Wood Studs, 2x4, Unplastered	4
	Wood Studs, 2x4, Plastered One Side	12
	Wood Studs, 2x4, Plastered Two Sides	20
<b>FRAME WALLS</b>	<b>Exterior Stud Walls: 2x4 16" O.C., 5/8" Gypsum, Insulated, 3/8" Siding</b>	11
	<b>Exterior Stud Walls: 2x6 16" O.C., 5/8" Gypsum, Insulated, 3/8" Siding</b>	12
	Exterior Stud Walls With Brick Veneer	48
	Windows, Glass, Frame, Sash.	8
<b>MASONRY PARTITIONS</b>	4" Brick	38
	8" Brick	80
	12" Brick	120
	17" Brick	160
	4" Brick, 8" Tile Backing	75
	9" Brick, 4" Tile Backing	100
	4" Concrete Block	30
	4" Cinder Concrete Block	20
	8" wall Tile	35
	12" Wall Tile	45
	3" Clay Tile	18
	4" Clay Tile	19
	6" Clay Tile	25
	4" Glass Block	18
	3" Gypsum Block	11
	4" Gypsum Block	13
	4" Limestone	55
	4" Terra-Cotta Tile	25
	4" Stone	55
	<b>WALL MATERIALS</b>	Glass Block, 4"
Glass Plate, 1/4.		3.3
Glazed Tile		18
Marble or Marble Wainscoting		15
Plaster, 1"		8
Plaster, 1" on Wood Lath		10
Plaster, 1. on Metal Lath		8.5
Porcelain-Enameled Steel		3
Stucco, 7/8.		10
2X4 Wood Studs 12" O.C		2.1
2X4 Wood Studs 16" O.C.		1.7
2X4 Wood Studs 24" O.C		1.3
2X6 Wood Studs 12" O.C		3.3
2X6 Wood Studs 16" O.C		2.7
2X6 Wood Studs 24" O.C		2.1

## ROOF DEAD LOADS IN (psf)

	Material	Weight
<b>BUILT UP ROOF</b>	Felt, per ply	.5
	Gravel	4
	Roll Roofing	1
	235 lb Shingles and Paper	2.5
	(2) 15 lb and (1) 90 lb	1.7
	(3) 15 lb and (1) 90 lb	2.2
	3-ply Ready Roofing	1
	3-ply Felt and Gravel	5.6
	4-ply Felt and Gravel	6
	5-ply Felt and Gravel	6.5
	<b>DECKING, POURED (1" THICK)</b>	Concrete Plank
Insulrock		2.7
Petrical		2.7
Porex		2.7
Poured Gypsum		6.5
Tectum		2.0
Vermiculite Concrete		2.6
<b>INSULATION BOARDS (1" THICK)</b>	Cellular Glass	.7
	Fibreboard	1.5
	Fibreglass, Rigid	1.5
	Fibrous Glass	1.1
	Perlite	.8
	Polystyrene Foam	.2
	Rigid Insulation	1.5
	Urethane Foam with Skin	.5
<b>METAL ROOFING</b>	14 U.S. Std. Ga.	3.6
	18 U.S. Std. Ga.	2.4
	22 U.S. Std. Ga.	1.5
	24 U.S. Std. Ga.	1.3
	26 U.S. Std. Ga.	1
Skylight, 3/8" Glass in Galv. Iron Frame		7.5

## FLOOR DEAD LOADS IN (psf)

Material		Weight
FLOOR FINISHES	Board Flooring, 1"	3
	Ceramic or Quarry Tile, 3/4" (w/o Mortar Bed)	10
	Concrete, Lightweight, 1"	6-10
	Concrete, Reinforced, 1"	12.5
	Floor Tile, 1"	10
	Hardwood Flooring, 7/8"	4
	Linoleum or Asphalt Tile, 1/4"	1
	Plywood, 1"	3
	Slate, 1"	15
	Stone, 1"	12
	Terrazo Finish, 1 1/2"	19
	Wood Block, 1"	4
FLOOR TRUSS @ 24" O.C 4x2 Truss Chords, Webs and Plates* * accounts for 1/2 of truss weight		1.9
WOOD JOISTS	2X6	1.1
	2X8	1.5
	2X10	1.9
	2X12	2.2

## CEILING DEAD LOADS IN (psf)

	Material	Weight
<b>CEILING</b>	Acoustical Fiber Tile	1
	Gypsum Board, 1/2"	2
	Gypsum Board, 5/8"	2.5
	Mechanical Duct Allowance	4
	Plaster on Tile or Concrete	5
	Plaster, 1", on Wood Lath	8
	Suspended Steel Channel System	2
	Suspended Metal Lath and Cement Plaster	15
	Suspended Metal Lath and Gypsum Plaster	10
	Wood Furring Suspension System	2.5
FLOOR TRUSS @ 24" O.C 4x2 Truss Chords, Webs & Plates* * Accounts for 1/2 of truss weight		1.9
<b>INSULATION</b>	Rock Wool, 1"	.2
	Glass Wool, 1"	.3
	Alpol	.1
<b>Roof Truss or Ceiling joists at 24" O.C</b>	2x4 Bottom Chord*	.7
	2x6 Bottom Chord*	1.1
	2x8 Bottom Chord*	1.5
	2x10 Bottom Chord*	1.9
	2x12 Bottom Chord*	2.2
	2x4 Webs and Plates**	.8
	2x6 Webs and Plates**	1.3
	* Measure along rake    ** accounts for 1/2 truss weight	
<b>SPRINKLER SYSTEM Without Ceiling</b>		1.0

<b>WEIGHTS OF CONSTRUCTION MATERIALS IN pcf</b>		
<b>MATERIAL</b>		<b>Weight</b>
<b>CONCRETE</b>	Cinder	108
	Haydite	90
	Slag	132
	Stone (Incl. Gravel)	144
	Light Aggregate, Non-Load Bearing	25-50
	Light Aggregate, Load Bearing	70-105
	Reinforced Cinder	111
	Reinforced Slag	138
	Reinforced Stone (Incl. Gravel)	150
<b>COVERING</b>	Fiberboard, 1/2"	.75
	Gypsum Wallboard.- 1/2"	2
	Particleboard, 1/2"	2
	Plywood, 1"	3
<b>EARTH</b>	Clay	63-110
	Gravel	104-120
	Sand	90-106
	Silt	78-108
	Sand and Gravel	100-120
<b>INSULATION</b>	Rock Wool, 1" (Roll or Bat)	.2 (psf)
	Glass Wool, 1" (Roll or Bat)	.3 (psf)
	Alpol (Roll or Bat)	.1 (psf)
	Temlock (Rigid 1" Thick)	1.2 (psf)
	Cork (Rigid 1" Thick)	.7 (psf)
	Gold Bond (Rigid 1" Thick)	1.5 (psf)
	Styrofoam (Rigid 1" Thick)	.2 (psf)
	Foam glass (Rigid 1" Thick)	.8 (psf)
	Rigid Fiberglass (Rigid 1" Thick)	1.5 (psf)

## WEIGHTS OF CONSTRUCTION MATERIALS IN pcf

MATERIAL		Weight
<b>MISCELLANEOUS</b>	Gypsum, Loose	70
	Hay, Moist	12
	Ice	57.2
	Masonry, Ashlar	140-165
	Masonry, Brick	100-140
	Paper	50
	Slate	172
	Stone, Quarried	82-107
	Terra Cotta	72-120
	Tin	459
	Water, Fresh	62.4
	Water, Sea	64
<b>WOOD SEASONED</b>	Douglas Fir	34
	Hemlock Fir	28
	S. Yellow Pine	37
	Redwood	28
	Western Hemlock	32
<b>ROOF TRUSS OR RAFTER @ 24" O.C</b>	2x4 Top Chord*	.7 (psf)
	2x6 Top Chord*	1.1 (psf)
	2x8 Top Chord*	1.5 (psf)
	2x10 Top Chord*	1.9 (psf)
	2x12 Top Chord*	2.2 (psf)
	2x4 Webs and Plates**	.8 (psf)
	2x6 Webs and Plates**	1.3 (psf)
	* Measure along rake    ** Accounts for 1/2 truss weight	
<b>SHEATHING</b>	Decking, 2"	5 (psf)
	Gypsum, 1/2"	2 (psf)
	Plywood, 3/8"	1.1 (psf)
	Plywood, 1/2"	1.5 (psf)
	Plywood, 5/8"	1.8 (psf)
	Plywood, 3/4"	2.3 (psf)
	Plywood, 1"	3 (psf)
	Plywood, 1 1/8"	3.4 (psf)
	Wood, 1"	3 (psf)
<b>SHINGLES &amp; TILES</b>	Asbestos-Cement	4 (psf)
	Asphalt, 1/4"	2 (psf)
	Wood, 1"	3 (psf)
	Cement (Tile)	15- 20 (psf)
	Cement Asbestos, 3/8" (Tile)	4 (psf)

## WEIGHTS OF CONSTRUCTION MATERIALS IN psf

MATERIAL		Weight
Tile, Clay	Book Tile, 3" 20 *	20
	Ludowici 10 *	10
	Roman 12 *	12
	Shingle Type 12-14 *	12-14
	Spanish 19 *	19
	Slate, 3/8" 12-15 *	12-15
	* (Add 10 psf for mortar to listing above)	
WATERPROOFING MEMBRANES	Gravel Covered	5.5
	Bituminous, Smooth Surface	1.5
	Liquid Applied	1
	Single-Ply, Sheet	.7