

# Material Weights

## Plywood: (OSB or CDX)

3/8"	1.1psf
1/2"	1.5psf
5/8"	1.8psf
3/4"	2.2psf
1-1/8"	3.3psf
Wood, 1"	2.3psf

## Wood Decking:

2"	4.3psf
3"	7.0psf
4"	9.3psf

## Insulation:

Rigid Fiberglass (1" thick)	1.5psf
Syrofoam (1" thick)	0.2psf
Poured Gypsum (1" thick)	6.5psf
Rock Wool (Roll or batt-1")	0.4psf
Glass Wool (Roll or batt-1")	0.2psf
Vermiculite Concrete (1")	2.6psf
Sheathing, 1"	2.3psf
Petrical, 1" thick	2.7psf

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## Coverings

Hardwood (1" nominal)	4.0psf
Quarry or Ceramic Tile, 3/4"	10.0psf
Linoleum or Soft Tile	1.5psf
Vinyl Tile 1/8" thick	1.4psf
Soft Tile and Sheet	1.5psf
GypCrete 3/4"	6.5psf

## Concrete:

Regular, 1" thick	12.0psf
Reinforced (1-1/2" thick)	17.5psf
Lightweight (1-1/2" thick)	12.5psf
Terrazo (1-1/2" thick)	19.0psf
Cement Finish (per inch thick)	12.0psf

## Walls/Partitions

### Masonry

Brick 4" thick	38.0psf
Concrete Block 12" thick	90.0psf
Cinder Concrete Block 12" thick	90.0psf
Stucco, 7/8" thick	10.0psf
Hollow Clay Tile (load bearing)	23.0psf
Hollow Clay Tile (nonbearing)	18.0psf
Hollow Gypsum Block 8" thick	26.0psf
Limestone	55.0psf
Terra-cotta Tile	25.0psf
Stone	55.0psf
8" Concrete Wall	100.0 psf
Wood Paneling, 1"	2.5psf

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## Wood Studs, 2x4 D.F. & Larch:

12" o.c.	1.3psf
16" o.c.	1.0psf
24" o.c.	0.7psf
8' tall 2x4 wood studs sheet rock both faces	10.0 psf
Glass Block, 4"	18.0psf
Glass Plate, 1/4"	3.3psf
Glazed Tile	18.0psf
Marble or marble wainscoting	15.0psf

## Plaster:

1"	8.0psf
Wood Lath, 1"	10.0psf
Metal Lath, 1"	8.5psf
Gypsum Wallboard, 1"	5.0psf
Porcelain-enameled steel	3.0psf
Windows-glass, frame and sash	8.0psf
Interior (studs 16" o.c.)	50.0psf
Exterior (studs 16" o.c.)	85.0psf
Exterior (studs 16" o.c./brick)	400.0psf

## Ceilings

### Gypsums Board:

1/2"	2.2psf
5/8"	2.8psf
5/8" Type X	3.0psf
1"	5.0psf
Accoustical Fiber Tile	1.0psf
Metal Suspension	0.8psf
Wood Suspension	1.5psf

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Metal Grid System	0.8psf
Metal Suspension with Tile	1.8psf
Wood Suspension with Tile	2.5psf
Plaster, 1"	8.0psf
Plaster on wood lath, 1"	10.0psf
Plaster on metal lath, 1"	8.5psf

## Roofing

Asphalt Shingles	2.5psf
Wood Shakes	3.0psf
Roll Roofing	1.0psf
Asphalt Shingles, approx 1/4"	2.0psf
Cement asbestos shingles, 3/8"	4.0psf
Clay Tile (add 10psf for mortar)	9.0psf
Ludowici	10.0psf
Roman	12.0psf
Slate, 1/4"	10.0psf
Spanish	19.0psf
Wood, 1"	3.0psf
Cement Tile (add 6psf for mortar)	10.0psf
Corrugated Asbestos/Cement	4.0psf

## Composition

235 lb Shingle & Paper	5.0psf
3-ply Ready Roofing	1.0psf
2-15 lb + 1-90lb	1.7psf
3-15 lb + 1-90lb	2.2psf
3-ply + Gravel	5.6psf
4-ply + Gravel	6.0psf
5-ply + Gravel	6.5psf

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## Decking:

Tectum, 1" thick	2.0psf
Insulrock, 1" thick	2.7psf
Poured Gypsum, 1" thick	6.5psf
Vermiculate Concrete, 1" thick	2.6psf

## Tile

Cement (with mortar)	16.0psf
Clay, 2" book	12.0psf
Clay, 3" book	20.0psf
Slate, 1" thick	40.0psf
Wood Shingles, 1" thick	3.0psf

## Lumber(40pcf)

Size	12"	16"	19.2"	24"
2x4	1.5	1.1	0.9	0.8
2x6	2.3	1.7	1.4	1.2
2x8	3.0	2.3	1.9	1.5
2x10	3.9	3.0	2.4	2.0
2x12	4.7	3.3	2.9	2.4

## Sprinkler Systems

Pipe Size	Dry(PLF)	Wet(PLF)
1	1.7	2.1
1-1/4	2.3	3.0
1-1/2	2.7	3.6
2	3.7	5.2
2-1/2	5.8	7.9
3	7.6	10.8

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3-1/2	9.2	13.5
4	10.9	16.4
5	14.8	23.5
6	19.2	31.7
8	28.6	50.8
10	40.5	74.6

## Material Composition Roofing

Felt, 3 ply	1.5psf
Felt, 5 ply	2.5psf

## Rigid Insulation

Temlock, 1" thick	1.2psf
Cord, 1" thick	0.7psf
Gold Bond, 1" thick	1.5psf
Styrofoam, 1" thick	0.2psf
Foam Glass, 1" thick	0.8psf
Rigid Fiberglass, 1" thick	1.5psf

## Roll or Batt Insulation

Rock Wool, 1" thick	0.2psf
Glass Wool, 1" thick	0.06psf
ALPOL	0.1psf

NOTE: Weight of wood and wood products will vary as the moisture content varies and as density of grain varies. Local codes should be consulted for live load requirements. Weight of manufactured products should be verified with manufacturer.