



County of San Diego, Planning & Development Services  
**WEIGHTS OF MATERIALS**  
**BUILDING DIVISION**

WEIGHTS OF MATERIALS\*  
 (all weights in psf)

<u>Roofing</u>	<u>weight</u>	<u>Sprinkler Systems</u>	<u>weight</u>		
3 ply built up w/gravel	5.5	single family residential	2.0		
asphalt/comp shingles	2.5	multifamily residential	2.5		
wood shake/shingles (1")	3.0	commercial	3.0		
concrete tile	per ICBO				
2-15# and 1-90# built up	1.7	<u>Floors</u>			
slate (1/4")	10.0	linoleum	1.0		
		carpeting	1.5		
<u>Insulation</u>		quarry or ceramic tile (3/4")	10.0		
expanded polystyrene (1" thick)	0.2	w/ 1/2" mortar bed	16.0		
fiberglass, rigid:		w/ 1" mortar bed	22.0		
R-30	2.0	concrete:			
R-19	1.5	regular (1")	12.5		
fiberglass, batt:		lightweight (1 1/2")	13.0		
R-30	0.5	hardwood (1" nom.)	4.0		
R-19	0.3				
Loose (1" thick)	0.5	<u>Walls</u>			
		stucco (7/8")	10.0		
<u>Ceiling</u>		glass block (4")	18.0		
plaster (1") on lath	10.0	brick (4")	38.0		
acoustical fiber tile	1.0	solid grouted concrete block:			
channel suspended ceiling	1.0	6"	63.0		
		8"	84.0		
		12"	133.0		
<u>Sheathing</u>		ungrouted concrete block:			
1/2" gypsum board	2.2	6"	37.0		
5/8" gypsum board	2.8	8"	42.0		
3/8" plywood	1.1	12"	62.0		
1/2" plywood	1.5				
5/8" plywood	1.8	<u>Douglas Fir Framing Members (based on 35 pcf)</u>			
3/4" plywood	2.3	nominal	joist spacing		
1 1/8" plywood	3.4	size	12" o.c.	16" o.c.	24" o.c.
		2x4	1.3	1.0	0.7
<u>Decking</u>		2x6	2.1	1.6	1.0
1" DF-L decking	2.3	2x8	2.7	2.1	1.4
2" DF-L decking	4.5	2x10	3.5	2.6	1.7
corrugated galvanized steel:		2x12	4.3	3.2	2.1
12 ga.	4.9	4x6	4.9	3.7	2.5
16 ga.	2.9	4x8	6.4	4.8	3.2
20 ga.	1.8	4x10	8.2	6.1	4.1
24 ga.	1.3	4x12	9.9	7.4	5.0

\* The "weight" chart has been assembled as a guide to promote plan check uniformity. It is not intended to be all-inclusive or a substitute for good judgement. Values for specific products, when documented, should take precedence.