appendix $oldsymbol{A}$

WEIGHTS OF BUILDING MATERIALS

WOOD FRAMING

Weights shown are for Douglas fir-larch, G = 0.50, which is conservative for most structures.

Nominal Size	Weight (psf) for Spacing:				
	12 in. o.c	16 in. o.c.	19.2 in. o.c.	24 in. o.c.	
2 × 4	1.2	0.9	0.8	0.6	
2×6	1.8	1.4	1.2	0.9	
2×8	2.4	1.8	1.5	1.2	
2×10	3.1	2.3	1.9	1.5	
2×12	3.7	2.8	2.3	1.9	
2×14	4.4	3.3	2.7	2.2	
2×16	5.0	3.8	3.1	2.5	
3×4	1.9	1.5	1.2	1.0	
3×6	3.0	2.3	1.9	1.5	
3×8	4.0	3.0	2.5	2.0	
3×10	5.1	3.8	3.2	2.6	
3×12	6.1	4.6	3.9	3.1	
3×14	7.2	5.4	4.5	3.6	
3×16	8.3	6.2	5.2	4.2	
4×4	2.7	2.0	1.7	1.4	
4×6	4.2	3.2	2.7	2.1	
4×8	5.5	4.2	3.5	2.8	
4×10	7.1	5.3	4.4	3.6	
4 × 12	8.6	6.4	5.4	4.3	
4 × 14	10.1	7.6	6.3	5.1	
4 × 16	11.6	8.7	7.3	5.8	

PREENGINEERED FRAMING

Roof Trusses

Span (ft.)	Weight (psf of horizontal plan area)	
30	5.0	
35	5.5	
40	6.0	
50	6.5	
60	7.5	
80	8.5	
100	9.5	
120	10.5	
150	11.5	

Floor Joists (I-Joists and Open Web)

Depth (in.)	Weight (psf of horizontal plan area)	
$9\frac{1}{2}$	2.5	
11 7 /8	3.5	
14	4.0	
16	4.5	
18	5.0	
20	5.5	
24	6.0	
26	6.3	
28	6.6	
30	7.0	

OTHER MATERIALS

	Weight (psf)
Sheathing	
Plywood (per $\frac{1}{8}$ -in. thickness)	0.4
Gypsum sheathing (per 1-in. thickness)	5.0
Lumber sheathing (per 1-in. thickness)	2.5
Floors and floor finishes	42.0
Asphalt mastic (per 1-in. thickness)	12.0
Ceramic or quarry tile $(\frac{3}{4}$ -in. thickness)	10.0
Concrete fill (per 1-in. thickness)	12.0
Gypsum fill (per 1-in. thickness)	6.0
Hardwood flooring ($\frac{7}{8}$ -in. thickness)	4.0
Linoleum or asphalt tile (per $\frac{1}{4}$ -in. thickness)	1.0
Slate (per 1-in. thickness)	15.0
Softwood $(\frac{3}{4}$ -in. thickness)	2.5
Terrazzo (per 1-in. thickness)	13.0
Vinyl tile $(\frac{1}{8}$ -in. thickness)	1.4
Roofs	
Copper or tin Felt	1.0
3-ply ready roofing	1.5
3-ply with gravel	5.5
5-ply with graver 5-ply	2.5
5-ply with gravel	6.5
Insulation (per 1-in. thickness)	0.0
Cellular glass	0.7
Expanded polystyrene	0.2
Fiberboard	1.5
Fibrous glass	1.1
Loose	0.5
Perlite	0.8
Rigid	1.5
Urethane foam with skin	0.5
Metal deck	3.0
Roll roofing	1.0
Shingles	
Asphalt $(\frac{1}{4}$ -in.)	2.0
Clay tile	12.0
Clay tile with mortar	22.0
Slate $(\frac{1}{4}$ -in.)	10.0
Wood	3.0
Ceilings	3.0
Acoustical fiber tile	1.0
Channel-suspended system	
Steel	2.0
Wood furring	2.0
Plaster on wood lath	8.0
Walls and partitions	
Brick (4-in. nominal thickness)	40
Glass (per 1-in. thickness)	15
Glass block (4-in. thickness)	18
Glazed tile	18
Plaster	8.0
Stone (4-in. thickness)	55
Stucco ($\frac{7}{8}$ -in. thickness)	10.0
Vinyl siding	1.0
Windows (glass, frame, sash)	8.0
Wood paneling	2.5