**TABLE A4-A—ALLOWABLE VALUES FOR EXISTING MATERIALS**

| EXISTING MATERIALS OR CONFIGURATIONS OF MATERIALS[a] | ALLOWABLE VALUES × 14.594 for N/m |
|---|---|
| 1. Horizontal diaphragms[b] | |
| 1.1. Roofs with straight sheathing and roofing applied directly to the sheathing | -100 lbs. per ft. for seismic shear |
| 1.2. Roofs with diagonal sheathing and roofing applied directly to the sheathing | 250 lbs. per ft. for seismic shear |
| 1.3. Floors with straight tongue-and-groove sheathing | 100 lbs. per ft. for seismic shear |
| 1.4. Floors with straight sheathing and finished wood flooring with board edges offset or perpendicular | 500 lbs. per ft. for seismic shear |
| 1.5. Floors with diagonal sheathing and finished wood flooring | 600 lbs. per ft. for seismic shear |
| 2. Crosswalls[b, c] | Per side: |
| 2.1. Plaster on wood or metal lath | 200 lbs. per ft. for seismic shear |
| 2.2. Plaster on gypsum lath | 175 lbs. per ft. for seismic shear |
| 2.3. Gypsum wallboard, unblocked edges | 75 lbs. per ft. for seismic shear |
| 2.4. Gypsum wallboard, blocked edges | 125 lbs. per ft. for seismic shear |
| 3. Existing footings, wood framing, structural steel and reinforced steel | |
| 3.1. Plain concrete footings | $f'_c$ = 1,500 psi (10.3 MPa) unless otherwise shown by tests[d] |
| 3.2. Douglas fir wood | Allowable stress same as D.F. No. 1[d] |
| 3.3. Reinforcing steel | $f_s$ = 18,000 psi (124 MPa) maximum[d] |
| 3.4. Structural steel | $f_s$ = 20,000 psi (138 MPa) maximum[d] |

For SI: 1 foot = 304.8 mm.

a. Material must be sound and in good condition.

b. A one-third increase in allowable stress is not allowed.

c. Shear values of these materials may be combined, except the total combined value shall not exceed 300 pounds per foot.

d. Stresses given may be increased for combination of loads as specified in the building code.