[BS] TABLE A1-D STRENGTH VALUES FOR EXISTING MATERIALS

EXISTING MATERIALS OR CONFIGURATION OF MATERIALS ^a		STRENGTH VALUES
		x 14.594 for N/m
Horizontal diaphragms	Roofs with straight sheathing and roofing applied directly to the sheathing.	300 lbs. per ft. for seismic shear
	Roofs with diagonal sheathing and roofing applied directly to the sheathing.	750 lbs. per ft. for seismic shear
	Floors with straight tongue-and-groove sheathing.	300 lbs. per ft. for seismic shear
	Floors with straight sheathing and finished wood flooring with board edges offset or perpendicular.	1,500 lbs. per ft. for seismic shear
	Floors with diagonal sheathing and finished wood flooring.	1,800 lbs. per ft. for seismic shear
	Metal deck welded with minimal welding.c	1,800 lbs, per ft. for seismic shear
	Metal deck welded for seismic resistance.d	3,000 lbs. per ft. for seismic shear
Crosswalls ^b	Plaster on wood or metal lath.	600 lbs. per ft. for seismic shear
	Plaster on gypsum lath.	550 lbs. per ft. for seismic shear
	Gypsum wallboard, unblocked edges.	200 lbs. per ft. for seismic shear
	Gypsum wallboard, blocked edges.	400 lbs. per ft. for seismic shear
Existing footing, wood framing, structural steel, reinforcing steel	Plain concrete footings.	$f_c' = 1,500 \text{ psi } (10.34 \text{ MPa}) \text{ unless otherwise shown by tests}$
	Douglas fir wood.	Same as D.F. No. 1
	Reinforcing steel.	F_y = 40,000 psi (124.1 N/mm ²) maximum
	Structural steel.	F_y = 33,000 psi (137.9 N/mm ²) maximum

For SI: 1 inch = 25.4 mm, 1 square inch = 645.16 mm^2 , 1 pound = 4.4 N.

- a. Material must be sound and in good condition.
- b. Shear values of these materials may be combined, except the total combined value should not exceed 900 pounds per foot (4380 N/m).
- c. Minimum 22-gage steel deck with welds to supports satisfying the standards of the Steel Deck Institute.
- d. Minimum 22-gage steel deck with ³/₄ φ plug welds at an average spacing not exceeding 8 inches (203 mm) and with sidelap welds appropriate for the deck span.