



DSA Structural Amendments under review are highlighted in GRAY

Template 23-29

2001 CBC - Chapter 23A
WOOD

Section - 2319A - WOOD SHEAR WALLS AND
DIAPHRAGMS

Subsection(s) - 2319A.1

1 **2319A.1 Conventional Lumber Diaphragms.** Conventional
2 lumber diaphragms *with common wire nails in* Douglas fir-larch
3 or Southern pine, * * * may be used to resist shear due to wind or
4 seismic forces not exceeding *200 pounds* per lineal foot
5 *(2.92 kN/m) for horizontal diaphragms, 250 pounds per lineal*
6 *foot (3.65 kN/m) for vertical diaphragms with a maximum height-*
7 *to-width ratio of 1, and 300 pounds per lineal foot (4.37 kN/m) for*
8 *vertical diaphragms with a maximum ratio of 1 to 1.5. Where box*
9 *nails are used, one additional nail shall be used at each bearing*
10 *and end connection.*

11
12 *Wood diaphragms made up of 2-inch by 6-inch (51 mm by 152*
13 *mm) diagonal sheathing with 16d nails may be used at the same*
14 *shear values and in the same locations as 1-inch (25 mm) sheath-*
15 *ing, provided there are no splices in adjacent boards on the same*
16 *support and supports are at least 4 inches (102 mm) in width and*
17 *at least 3 inches (76 mm) thick.*

18
19 Where nails are used with sheathing and framing members with
20 a specific gravity less than 0.49, the allowable unit shear strength
21 of the diaphragm shall be multiplied by the following factors: 0.82
22 for species with specific gravity greater than or equal to 0.42 but
23 less than 0.49, and 0.65 for species with a specific gravity less than
24 0.42.