



DSA Structural Amendments under review are highlighted in GRAY

Template 23-21

2001 CBC - Chapter 23A
WOOD

Section - 2316A - DESIGN SPECIFICATIONS

Subsection(s) - 2316A.2 / 23. - 27.

1 **23. Sec. 5.2.2. Delete and substitute as follows:**

2
3 *[For DSA/SS] Reinforcement of radial tension. Where me-*
4 *chanical reinforcement is required to resist radial tension, rein-*
5 *forcement shall be as described in the 3rd Edition (1985) of the*
6 *Timber Construction Manual or as otherwise approved. The max-*
7 *imum spacing of mechanical reinforcement shall not exceed one*
8 *half the effective embedded thread length of the member at the lo-*
9 *cation of the reinforcement. The effective embedded thread length*
10 *is the embedded thread length in the tension zone from the neutral*
11 *axis of the member to the end of the reinforcement.*

12
13 **24. Sec. 5.4.1. Delete second paragraph and substitute as fol-**
14 **lows:**

15
16 For curved bending members having a varying cross section,
17 the maximum actual radial stress induced, f_r , is given by:

18
19
$$f_r = K_r \frac{6M}{bd^2}$$

20
21 ● ● ● ●

22
23 **25. Sec. 5.4.1.2. Delete and substitute as follows:**

24
25 *When M is in the direction tending to decrease the curvature (in-*
26 *crease the radius), mechanical reinforcing sufficient to resist all*
27 *radial tension stresses is required, but in no case shall the calcu-*
28 *lated radial tension stress exceed one third the allowable unit*
29 *stress in horizontal shear. When mechanical reinforcing is used,*
30 *the maximum moisture content of the laminations at time of manu-*

31 *fracture shall not exceed 12 percent for dry conditions of use.*

32
33 **26. Sec. 5.4.4. Add a section as follows:**

34
35 **5.4.4 Ponding.** Roof-framing members shall be designed for the
36 deflection and drainage or ponding requirements specified in Sec-
37 tion 1506 and Chapter 16A. In glued-laminated timbers, the mini-
38 mum slope for roof drainage required by Section 1506 shall be in
39 addition to a camber of one and one-half times the calculated dead
40 load deflection. The calculation of the required slope shall not
41 include any vertical displacement created by short taper cuts. In no
42 case shall the deflection of glued-laminated timber roof members
43 exceed 1/2-inch (13 mm) for a 5 pound-per-square-foot (239 Pa)
44 uniform load.

45
46 **27. Sec. 5.4.5. Add a new section as follows:**

47
48 **5.4.5 Tapered Faces.** Sawn tapered cuts shall not be permitted on
49 the tension face of any beam. Pitched or curved beams shall be so
50 fabricated that the laminations are parallel to the tension face.
51 Straight, pitched or curved beams may have sawn tapered cuts on
52 the compression face.

53
54 For other members subject to bending, the slope of tapered
55 faces, measured from the tangent to the lamination of the section
56 under consideration, shall not be steeper than 1 unit vertical in
57 24 units horizontal (4% slope) on the tension side.

58
59 **EXCEPTIONS:** 1. This requirement does not apply to arches.
60 2. Taper may be steeper at sections increased in size beyond design
61 requirements for architectural projections.