



DSA Structural Amendments under review are highlighted in GRAY

Template 23-28

2001 CBC - Chapter 23A  
WOOD

Section - 2318A - TIMBER CONNECTORS AND FASTENERS

Subsection(s) - 2318A.7

1 *2318A.7 Metal Plate Connectors. The design and fabrication of*  
2 *light metal plate connected light wood trusses shall be in accor-*  
3 *dance with Division III, Part III, and in accordance with the fol-*  
4 *lowing requirements:*

5  
6 *1. Joint designs. The effects of eccentric loading shall be con-*  
7 *sidered in the design of all joints and complete calculations for*  
8 *each joint shall be submitted.*

9  
10 *Metal plate connector teeth located within 1/2 inch (12.7mm) of*  
11 *the edge or end of a wood member shall not be considered effective*  
12 *in carrying load. Teeth shall not be installed in knots or greatly*  
13 *distorted grain. An 8d by 1-1/2-inch-long (38 mm) ring-shanked*  
14 *nail shall be installed through each plate to each member.*

15  
16 *2. Basic code value. The basic normal load value per tooth,*  
17 *plug, nail or square inch of connector plate area shall be the least*  
18 *of the values determined by the following criteria:*

19  
20 *2.1 The average uncycled proportional limit slip divided by*  
21 *2.0;*

22  
23 *2.2 The average cycled proportional limit slip divided by*  
24 *1.6;*

25  
26 *2.3 The average uncycled ultimate load at failure divided*  
27 *by 5.0;*

28  
29 *2.4 The minimum uncycled ultimate load at failure divided*  
30 *by 4.0;*  
31

32 2.5 The average cycled ultimate load at failure divided by  
33 4.0; or

34  
35 2.6 The minimum cycled ultimate load at failure divided by  
36 3.2.

37  
38 3. **Inspection.** See Section 2337A.3 for inspection require-  
39 ments.

40  
41 4. **Truss loads.** The truss loads bearing on beams or top plates  
42 of walls shall not exceed the allowable bearing and bending  
43 stresses for those members.

44  
45 5. **Complete truss drawings.** Complete drawings of truss con-  
46 figurations and all joint details, including the details for the sup-  
47 port of the ends of the truss shall be shown on the drawings  
48 submitted for approval.

49  
50 6. **Moisture content.** All lumber used in trusses shall have a  
51 moisture content of not less than 11 percent or more than 19 per-  
52 cent at the time of fabrication.