



DSA Structural Amendments under review are highlighted in GRAY

Template 21-23

2001 CBC - Chapter 21A  
MASONRY

Section - 2106A - GENERAL DESIGN REQUIREMENTS

Subsection(s) - 2106A.1.12.4

1 **2106A.1.12.4 Special provisions for Seismic Zones 3 and**  
2 **4.** All masonry structures shall be *so* designed and constructed  
3 *that the unit stresses do not exceed those set forth in Section*  
4 *2107A, and the* following additional requirements *are met.*

5  
6 **Wall reinforcement.** *The total area of reinforcement in rein-*  
7 *forced masonry walls shall not be less than 0.003 times the sec-*  
8 *tional area of the wall. Neither the horizontal nor the vertical*  
9 *reinforcement shall be less than one third of the total. Horizontal*  
10 *and vertical bars shall be spaced at not more than 24 inches (610*  
11 *mm) center to center. The minimum reinforcing shall be No. 4, ex-*  
12 *cept that No. 3 bars may be used for ties and stirrups. Vertical wall*  
13 *steel shall have dowels of equal size and equal matched spacing in*  
14 *all footings. Reinforcement shall be continuous around wall cor-*  
15 *ners and through intersections. Only reinforcement which is con-*  
16 *tinuous in the wall shall be considered in computing the minimum*  
17 *area of reinforcement. Reinforcement with splices conforming to*  
18 *Section 2107A.2.2.6 shall be considered as continuous reinforce-*  
19 *ment.*

20  
21 *Horizontal reinforcement shall be provided in the top of foot-*  
22 *ings, at the top of wall openings, at roof and floor levels, and at the*  
23 *top of parapet walls. For walls 12 inches (nominal) (305 mm) or*  
24 *more in thickness, reinforcing shall be equally divided into two*  
25 *layers, except where designed as retaining walls. Where rein-*  
26 *forcement is added above the minimum requirements, such addi-*  
27 *tional reinforcement need not be so divided.*

28  
29 *In bearing walls of every type of reinforced masonry, there shall*  
30 *not be less than one No. 5 bar or two No. 4 bars on all sides of, and*  
31 *adjacent to, every opening which exceeds 24 inches (610 mm) in*  
32 *either direction, and such bars shall extend not less than 48 diame-*

33 *ters, but in no case less than 24 inches (610 mm) beyond the cor-*  
34 *ners of the opening. The bars required by this paragraph shall be*  
35 *in addition to the minimum reinforcement elsewhere required.*

36  
37 *When the reinforcement in bearing walls is designed, placed*  
38 *and anchored in position as for columns, the allowable stresses*  
39 *shall be as for columns. The length of the wall to be considered*  
40 *effective shall not exceed the center-to-center distance between*  
41 *loads nor shall it exceed the width of the bearing plus four times*  
42 *the wall thickness.*

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