



DSA Structural Amendments under review are highlighted in GRAY

Template 21-29

2001 CBC - Chapter 21A
MASONRY

Section - 2107A - WORKING STRESS DESIGN OF
MASONRY

Subsection(s) - 2107A.1.3.2 - 2107A.1.4

1 **2107A.1 General.**

2

3 **2107A.1.3.2 Columns.** The least nominal dimension of a rein-
4 forced masonry column shall be 12 inches (305 mm). *No masonry*
5 *column shall have an unsupported length greater than 20 times its*
6 *least dimension.*

7
8 **2107A.1.4 Design assumptions.** The working stress design pro-
9 cedure is based on working stresses and linear stress-strain dis-
10 tribution assumptions with all stresses in the elastic range as
11 follows:

12
13 1. Plane sections before bending remain plane after bending.

14
15 2. Stress is proportional to strain.

16
17 3. Masonry elements combine to form a homogenous member.

18
19 *4. Tensile forces are resisted only by the tensile reinforcement.*

20
21 *5. Reinforcement is completely surrounded by and bonded to*
22 *the masonry materials so that they work together as a homoge-*
23 *neous material within the range of working stresses.*

24
25 *6. Masonry elements shall not be used as components for the*
26 *design of rigid frames except as permitted in Section 2108A.2.6.*