



DSA Structural Amendments under review are highlighted in GRAY

Template 21-13

2001 CBC - Chapter 21A
MASONRY

Section - 2104A - CONSTRUCTION

Subsection(s) - 2104A.6.1.2.1

1 2104A.6 Grouted Masonry.

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4 **2104A.6.1.2 Reinforced hollow-unit masonry.**

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6 **2104A.6.1.2.1 General.** Reinforced hollow-unit masonry is that
7 type of construction made with hollow-masonry units in which
8 cells are continuously filled with grout, and in which reinforce-
9 ment is embedded. All cells shall be solidly filled with grout in re-
10 inforced hollow-unit masonry, except as provided in Section
11 2112A.1. Construction shall be one of the two following methods:
12 The low-lift method where the maximum height of construction
13 laid before grouting is 4 feet (1220 mm), or the high-lift method
14 where the full height of construction between horizontal cold
15 joints is grouted in one operation. General requirements for con-
16 struction shall be as follows:

17

18 1. All reinforced hollow-unit masonry shall be built to preserve
19 the unobstructed vertical continuity of the cells to be filled. All
20 head joints shall be solidly filled with mortar for a distance in from
21 the face of the wall or unit not less than the thickness of the longitu-
22 dinal face shells.

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24 2. Mortar shall be as specified in Section 2103A.

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26 3. Walls and cross webs forming such cells to be filled shall be
27 full bedded in mortar to prevent leakage of grout.

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29 4. Bond shall be provided by lapping units in successive verti-
30 cal courses. Where stack bond is used in reinforced hollow-unit

31 masonry, the open-end type of unit shall be used with vertical rein-
32 forcement spaced a maximum of 16 inches (406 mm) on center.

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34 5. Vertical cells to be filled shall have vertical alignment suffi-
35 cient to maintain a clear unobstructed, continuous vertical cell
36 measuring not less than 2 inches by 3 inches (51 mm by 76 mm),
37 except the minimum cell dimension for high-lift grout shall be
38 3 inches (76 mm).

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40 6. At the time of laying, all masonry units shall be free of dust
41 and dirt.

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43 7. Grout shall be a workable mix suitable for placing without
44 segregation and shall be thoroughly mixed. Grout shall be placed
45 by pumping or an approved alternate method and shall be placed
46 before initial set or hardening occurs. Grout shall be consolidated
47 by mechanical vibration during placing and reconsolidated after
48 excess moisture has been absorbed, but before workability is lost.
49 The grouting of any section of a wall shall be completed in one day,
50 with no interruptions greater than one hour.

51
52 **[For OSHPD] NOTE:** For special inspection requirements, see
53 Section 2105A.3.

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55 8. All reinforcing and wire ties shall be embedded in the grout.
56 The space between masonry unit surfaces and reinforcing shall be
57 a minimum of one bar diameter.

58
59 9. Horizontal reinforcement shall be placed in bond beam units
60 with a minimum grout cover of 1 inch (25 mm) above steel for each
61 grout pour. The depth of the bond beam channel below the top of
62 the unit shall be a minimum of 1-1/2 inches (38 mm) and the width
63 shall be 3 inches (76 mm) minimum.