



DSA Structural Amendments under review are highlighted in GRAY

Template 21-12

2001 CBC - Chapter 21A
MASONRY

Section - 2104A - CONSTRUCTION

Subsection(s) - 2104A.6.1.1.3

1 2104A.6 Grouted Masonry.

2 ● ● ● ●

3
4 *2104A.6.1.1.3 High-lift grouted construction. Where high-lift*
5 *grouting is used, the method shall be subject to the approval of the*
6 *enforcement agency. Requirements for construction shall be as*
7 *follows:*

8
9 *1. All units in the two tiers shall be laid with full head and bed*
10 *mortar joints.*

11
12 *2. The two tiers shall be bonded together with wall ties. Ties*
13 *shall not be less than No. 9 wire in the form of rectangles 4 inches*
14 *(102 mm) wide and 2 inches (51 mm) in length less than the overall*
15 *wall thickness. Kinks, water drips, or deformations shall not be*
16 *permitted in the ties. One tier of the wall shall be built up not more*
17 *than 16 inches (406 mm) ahead of the other tier. Ties shall be laid*
18 *not to exceed 24 inches (610 mm) on center horizontally and*
19 *16 inches (406 mm) on center vertically for running bond, and not*
20 *more than 24 inches (610 mm) on center horizontally and 12 in-*
21 *ches (305 mm) on center vertically for stack bond.*

22
23 *3. Cleanouts shall be provided for each pour by leaving out ev-*
24 *ery other unit in the bottom tier of the section being poured or by*
25 *cleanout openings in the foundation. The foundation or other hor-*
26 *izontal construction joints shall be cleaned of all loose material*
27 *and mortar droppings before each pour. The cleanouts shall be*
28 *sealed before grouting, after inspection.*

29
30 *4. The grout space in high-lift grouted masonry shall be a mini-*

31 *mum of 3-1/2 inches (89 mm). All reinforcing and wire ties shall be*
32 *embedded in the grout. The thickness of the grout between mason-*
33 *ry units and reinforcing shall be a minimum of one bar diameter.*

34
35 *5. Vertical grout barriers or dams shall be built of solid mason-*
36 *ry across the grout space the entire height of the wall to control the*
37 *flow of the grout horizontally. Grout barriers shall not be more*
38 *than 30 feet (9144 mm) apart.*

39
40 *6. An approved admixture of a type that reduces early water*
41 *loss and produces an expansive action shall be used in high-lift*
42 *grout.*

43
44 *7. Grouting shall be done in a continuous pour in lifts not ex-*
45 *ceeding 4 feet (1219 mm). Grout shall be consolidated by mechan-*
46 *ical vibration only, and shall be reconsolidated after excess*
47 *moisture has been absorbed, but before plasticity is lost. The*
48 *grouting of any section of a wall between control barriers shall be*
49 *completed in one day, with no interruptions greater than one hour.*

50
51 ***NOTE:*** *For special inspection requirements, see Section 2105A.3.*

52
53 *8. Stresses. All reinforced grouted masonry shall be so con-*
54 *structed that the unit stresses do not exceed those set forth in Sec-*
55 *tions 2107A.2.5 through 2107A.2.11.*