

Figure 15-48 Mortar protrusions into the wall cavity or unit cores will inhibit the flow of grout and create voids within the section.

in a wall should be allowed to cure for at least 3 days to gain strength before grouting by the high-lift method. In cold, damp weather, or during periods of heavy rain, curing should be extended to 5 days.

Grout should be placed in a continuous operation with no intermediate horizontal construction joints within a story height. Five-foot maximum lifts are recommended, with 30 to 60 minutes between pours to allow for settlement, shrinkage, and absorption of excess water by the units. In each lift, the top 12 to 24 in. is reconsolidated before or during placement of the next lift. It is critical that the grout consistency be fluid, and that it be consolidated and reconsolidated by mechanical vibration.

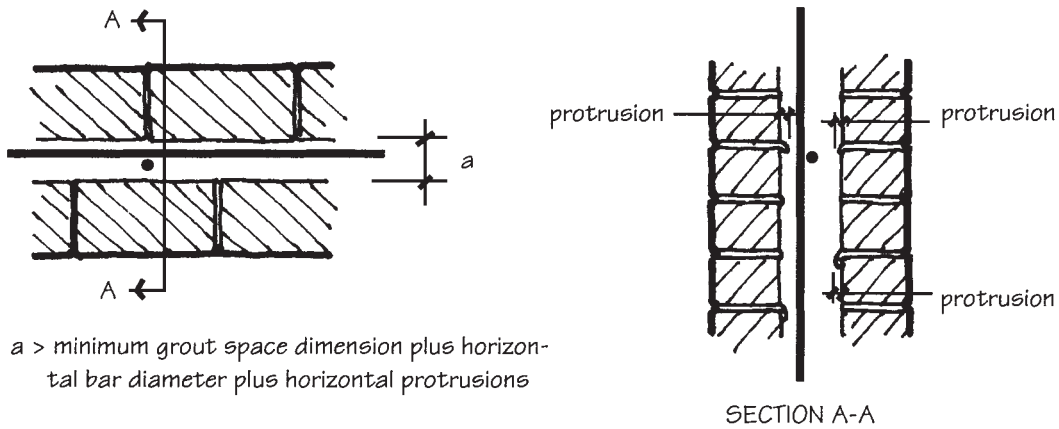
15.3.6 Protections

High-lift grouting requires that walls be temporarily braced until the mortar and grout have fully set. Partially completed walls should also be braced dur-

Minimum Grout Space Requirements for ASTM C476 Grout
(with tolerance of +3/8" or -1/4")

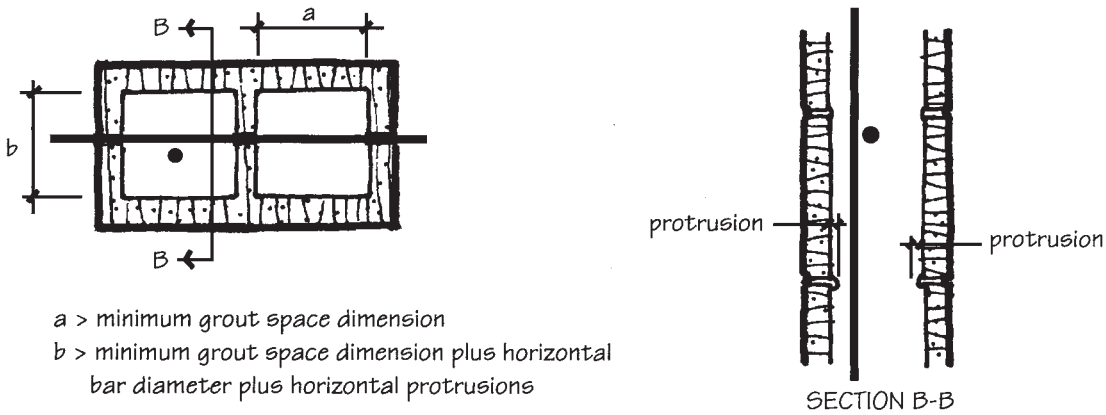
Grout Type	Maximum Grout Pour Height (ft.)	Minimum Width of Grout Space Between Wythes of Masonry ^s (in.)	Minimum Grout Space Dimensions for Grouting Cells or Cores of Hollow Units [†] (in. x in.)
Fine	1	3/4	1 1/2 x 2
Fine	5	2	2 x 3
Fine	12	2 1/2	2 1/2 x 3
Fine	24	3	3 x 3
Coarse	1	1 1/2	1 1/2 x 3
Coarse	5	2	2 1/2 x 3
Coarse	12	2 1/2	3 x 3
Coarse	24	3	3 x 4

- ^s Grout space dimension is the clear dimension between any masonry protrusion and shall be increased by the diameters of the horizontal bars within the cross section of the grout space.
- [†] Area of vertical reinforcement not to exceed 6% of the area of the grout space.



$a >$ minimum grout space dimension plus horizontal bar diameter plus horizontal protrusions

GROUT SPACE REQUIREMENTS FOR CAVITY BETWEEN WYTHES OF MASONRY



$a >$ minimum grout space dimension

$b >$ minimum grout space dimension plus horizontal bar diameter plus horizontal protrusions

GROUT SPACE REQUIREMENTS FOR CELLS OR CORES OF HOLLOW UNITS

Figure 15-49 Masonry grout space requirements. (From *Masonry Standards Joint Committee, Building Code Requirements for Masonry Structures, ACI 530/ASCE 5/TMS 402.*)