

**LATERAL SUPPORT REQUIRED FOR BEARING MASONRY WALLS  
(with stable and well drained soil)**

Provide supports at maximum distance either vertically or horizontally – methods to use working vertically are cross walls, pilasters, buttresses, structural frame members – methods working horizontally are floor systems and roof structures properly fastened, known as diaphragms

RATIO -- Length to thickness or height to thickness: Solid or solid grouted = 20  
All Other = 18

<u>Wall Width</u>	<u>Max. Wall Length if Bracing is Vertical</u>	<u>Max. Wall Height if Bracing is Horizontal</u>
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*Hollow Core Block Walls:*

Formula

8"	(.67 x 18 = 12)	12'
10"	(.833 x 18 = 15)	15'
12"	(1 x 18 = 18)	18'
16"	(1.33 x 18 = 24)	24'

*Fully Grouted Block and Plain Concrete Walls:*

8"	(.67 x 20 = 13.4)	13.4'
10"	(.833 x 20 = 16.7)	16.7'
12"	(1 x 20 = 20)	20'
16"	(1.33 x 20 = 26.67)	26.7'