# Masonry

<table>
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<tr>
<th>Material</th>
<th>Formula/Description</th>
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| **Block**    | 1.125 blocks per square foot of wall area  
                75% of length of wall gives number of block per course  
                Wall height in feet times 1.5 equals number of courses                                  |
| **Brick**    | 7 Standard bricks per square foot of wall area  
                5.5 Engineer (oversized brick) per square foot of wall area  
                1½ bricks per running foot of wall                                                   |
| **Concrete** | Typical 3000 psi mix  
                2000 pounds of stone  
                1000 pounds of sand  
                6 bags of cement                                                     |
| **Sand & Aggregate** | Approximately 110 pounds per cubic foot  
                Approximately 3000 pounds per cubic yard  
                16 shovels per bag of mortar  
                800 pounds of sand for 100 block  
                1 Ton of sand per 250 block  
                1 Ton of sand per 1000 brick                                                  |
| **Mortar**   | To mix - 1 part mortar to 2½ parts sand  
                2¼ bags of mortar per 100 block (40 block per bag)  
                7-8 bags of mortar per 1000 brick (143 brick per bag)  
                16 shovels of sand per bag of mortar                                               |
| **Wall Ties**| 1 per every 10 brick (50 per cube)                                                                                                                   |
| **Zonolite** | One 4 cubic foot bag fills 16 - 8”block or 9 - 12”block                                                                                             |
| **Filling Block (Core Voids)** | 12” blocks….1.44 cubic yards per 100 block  
                10” blocks….1.22 cubic yards per 100 block  
                8” blocks…. .93 cubic yards per 100 block  
                6” blocks…. .63 cubic yards per 100 block                                        |
| **Fire Clay**| 2 parts fire clay to 3 parts cement                                                                                                                   |
| **Anchor Bolts** | 1 every 4 feet                                                                                                                                          |

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Roanoke Showroom  New Block, Brick and Hardscape Center

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Manufactured Veneer Stone
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  Banas Stone
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