Rule of Thumb Figures

Engineering Services

Technical Bulletin

Block
- 3 bags mortar per 100 block
- 1000 lbs of sand per 100 block
- 1.125 block per sq. ft. wall
- ASTM Specification C90

Mortar
- Typical walls (above grade) use Type N
- Below grade and block foundations use Type S
- Pavers use Type S
- 1 part masonry cement mortar: 3 parts sand
- ASTM Specification C270

Brick

<table>
<thead>
<tr>
<th>Size W x H x L (Bed x Face x Length)</th>
<th>Modular (M/S)</th>
<th>Engineer Modular (E/M)</th>
<th>Queen Size (Q/M)</th>
<th>King Size (K/S)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3½” x 2¼” x 7 5/8”</td>
<td>3½” x 2¾” x 7 5/8”</td>
<td>3” x 2 ¾” x 7 5/8”</td>
<td>2 5/8” x 2¾” x 9 5/8”</td>
</tr>
<tr>
<td>Brick Per Sq. Ft. of Wall *</td>
<td>6.75</td>
<td>5.76</td>
<td>5.76</td>
<td>4.6</td>
</tr>
<tr>
<td>Bags of Mortar per 1000 brick</td>
<td>7</td>
<td>8</td>
<td>6.5</td>
<td>7</td>
</tr>
<tr>
<td>Wall Ties per 1000 brick</td>
<td>55</td>
<td>65</td>
<td>65</td>
<td>80</td>
</tr>
<tr>
<td>Package Count</td>
<td>480</td>
<td>380</td>
<td>460</td>
<td>368</td>
</tr>
</tbody>
</table>

* Add approximately 5% for waste.
**Sand**
- Order 1 ton of sand for every 7 bags of masonry cement mortar
- ASTM Specification C144

**Pavers**
- 4.5 Pavers per sq. ft.
- 2” sand setting bed, 1 ton covers 110 sq. ft.
- 4” compacted base, 1 ton covers 43.5 sq ft
- ASTM Specification C902 (Pedestrian and Light Traffic 2¾” and 1¾” units) & C1272 (Heavy Vehicular 2¾” units)

**Sealers and Cleaners**

*ProSoCo Products*
- Weatherseal Siloxane PD™ 1 gallon per 125 sq. ft. surface area
- Paver Enhancer™ 1 gallon per 125 sq. ft. surface area
- Sure Clean 600™ 1 gallon (undiluted) per 5000 brick or Vanatro™

**Weeps**
- Order 1 weep for every 2 linear feet of base course, above and below all openings
- Order weeps for roof intersections on pre-fab chimneys

**Lintels**
- Minimum length = Masonry Opening plus 8” (Openings up to 6 feet)
- Minimum length = Masonry Opening plus 12” (Openings between 6 to 9 feet)
- Minimum length = Masonry Opening plus 24” (Openings greater than 9 feet)
- Lintels are ordered in 6” length increments (order next size up)
- For vinyl windows the out to out dimension is the same as the masonry opening

**Flashing**
- Around base course
- Above and below all window and door openings (double lintel length)

**Landscaping Coverage**
*(coverage per ton in sq. ft.)*

<table>
<thead>
<tr>
<th>Depth</th>
<th>Brick Chips</th>
<th>Garden Trak</th>
</tr>
</thead>
<tbody>
<tr>
<td>1”</td>
<td>300 sq. ft.</td>
<td>280 sq. ft.</td>
</tr>
<tr>
<td>2”</td>
<td>150 sq. ft.</td>
<td>140 sq. ft.</td>
</tr>
<tr>
<td>3”</td>
<td>100 sq. ft.</td>
<td>93 sq. ft.</td>
</tr>
<tr>
<td>4”</td>
<td>75 sq. ft.</td>
<td>70 sq. ft.</td>
</tr>
<tr>
<td>5”</td>
<td>60 sq. ft.</td>
<td>56 sq. ft.</td>
</tr>
<tr>
<td>6”</td>
<td>50 sq. ft.</td>
<td>47 sq. ft.</td>
</tr>
</tbody>
</table>

**Thin Brick / Thin Rock Mortar**
- Scratch Coat 2 bags mortar per 100 sq. ft. (brick and rock)
- Grouting Joints 1 bag mortar per 100 sq. ft. (brick)
- 2 bags mortar per 100 sq. ft (rock)