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40# LIVE LOAD, 10# DEAD LOAD II

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20# LIVE LOAD, 10# DEAD LOAD VI

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APPENDIX B

ILLUSTRATIONS AND TABLES
## FLOOR JOISTS

### 30# LIVE LOAD, 10# DEAD LOAD, //360

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I
## FLOOR JOISTS

40# LIVE LOAD, 10# DEAD LOAD, //360

### Span (feet and inches)

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## FASTENING SCHEDULE

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<td>Bridging to joists</td>
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<td>Floor joists to studs (no ceiling</td>
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<td>joists)</td>
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<td>Ledger strip</td>
<td>16d common</td>
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<td>Wood structural panel</td>
<td>8d common or 6d annular</td>
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IV
CEILING JOISTS
Use these loading conditions for the following:
No attic storage. Ceiling where the roof slope is not steeper than 3 in 12. Drywall ceilings.

10# LIVE LOAD, 5# DEAD LOAD, //240

Span (feet and inches)  

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Use these loading conditions for the following:
Limited attic storage where development of
Future rooms is not possible. Ceilings where the
roof pitch is steeper than 3 in 12.
Where the clear height in the attic is greater
than 30 inches. Drywall ceiling.

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**ROOF RAFTERS**

Flat roof or cathedral ceiling with drywall finish. Light roof covering.

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### ROOF RAFTERS

30# SNOW LOAD, 15# DEAD LOAD, //180

Roof slope greater than 3 in 12
No ceiling finish

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<td>8-6</td>
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<td>12-5</td>
</tr>
<tr>
<td>Larch (Western)</td>
<td>14-3</td>
<td>12-11</td>
<td>11-2</td>
<td>18-9</td>
</tr>
<tr>
<td></td>
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<td>8-3</td>
<td>6-9</td>
<td>12-1</td>
</tr>
<tr>
<td>Doug-Fir South (Western)</td>
<td>14-10</td>
<td>13-6</td>
<td>11-7</td>
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<td>18-0</td>
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<td>11-1</td>
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<td>16-2</td>
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<td>9-10</td>
<td>8-6</td>
<td>6-11</td>
<td>12-5</td>
</tr>
<tr>
<td>Hem-Fir (Western)</td>
<td>13-10</td>
<td>12-7</td>
<td>11-0</td>
<td>18-3</td>
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<td></td>
<td>12-10</td>
<td>11-1</td>
<td>9-1</td>
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<td>9-1</td>
<td>7-10</td>
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<td>11-6</td>
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<td>Spruce-Pine Fir (South)</td>
<td>13-10</td>
<td>12-7</td>
<td>11-0</td>
<td>18-3</td>
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<td>9-1</td>
<td>7-10</td>
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<td>11-6</td>
</tr>
<tr>
<td>Doug Fir Larch North (Canada)</td>
<td>15-9</td>
<td>13-8</td>
<td>11-2</td>
<td>20-0</td>
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<tr>
<td></td>
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<td>9-7</td>
<td>8-3</td>
<td>6-9</td>
<td>12-1</td>
</tr>
<tr>
<td>Hem-Fir North (Canada)</td>
<td>15-2</td>
<td>13-8</td>
<td>11-2</td>
<td>20-0</td>
</tr>
<tr>
<td></td>
<td>13-11</td>
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<td>10-6</td>
<td>9-1</td>
<td>7-5</td>
<td>13-4</td>
</tr>
<tr>
<td>Spruce, Pine, Fir (Canada)</td>
<td>14-7</td>
<td>13-3</td>
<td>11-0</td>
<td>19-2</td>
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<td>9-10</td>
<td>8-6</td>
<td>6-11</td>
<td>12-5</td>
</tr>
</tbody>
</table>
## FASTENING SCHEDULE

<table>
<thead>
<tr>
<th>BUILDING ELEMENT</th>
<th>NAIL SIZE AND TYPE</th>
<th>NUMBER AND LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roof and ceiling construction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ceiling joists to plate</td>
<td>16d common</td>
<td>3 toe nail</td>
</tr>
<tr>
<td>Ceiling joists (laps over partition)</td>
<td>10d common</td>
<td>3 direct nail</td>
</tr>
<tr>
<td>Ceiling joists (parallel to rafter)</td>
<td>10d common</td>
<td>3 direct nail</td>
</tr>
<tr>
<td>Collar beam</td>
<td>10d common</td>
<td>3 direct</td>
</tr>
<tr>
<td>Roof rafter to plate</td>
<td>8d common</td>
<td>3 toe nail</td>
</tr>
<tr>
<td>Roof rafter to ridge</td>
<td>16d common</td>
<td>2 toe nail or direct nail</td>
</tr>
<tr>
<td>Jack rafter to hip</td>
<td>10d common or 16d common</td>
<td>3 toe nail or 2 direct nail</td>
</tr>
<tr>
<td>1” roof decking (6” or less in width)</td>
<td>8d common</td>
<td>2 each direct rafter</td>
</tr>
<tr>
<td>1” roof decking (over 6” in width)</td>
<td>8d common</td>
<td>3 each direct rafter</td>
</tr>
<tr>
<td>BUILDING ELEMENT</td>
<td>NAIL SIZE AND TYPE</td>
<td>NUMBER AND LOCATION</td>
</tr>
<tr>
<td>------------------</td>
<td>--------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>ROOF COVERINGS</td>
<td>FASTENER STYLE 2</td>
<td>SPACING SPECIFICATIONS 4</td>
</tr>
<tr>
<td>Base ply and roofing plies</td>
<td>12 ga. Roofing nail 6</td>
<td>Nails driven through tin discs, spaced maximum 12” o.c.</td>
</tr>
<tr>
<td>Asphalt shingles</td>
<td>12 ga. 3/8” HD roofing nail</td>
<td>2 nails per each 36” – 40” section of shingle</td>
</tr>
<tr>
<td>Asphalt hip and ridge shingles</td>
<td>12 ga. 3/8” HD roofing nail</td>
<td>2 nails are required for each hip and ridge shingle</td>
</tr>
<tr>
<td>Wood shingles 3</td>
<td>.076 shingle nail .080 T-nail</td>
<td>24” shingle 2 fasteners per shingle</td>
</tr>
<tr>
<td>Wood shingle 3</td>
<td>.080 shingle nail .080 T-nail</td>
<td>24” shingle 2 fasteners per shingle</td>
</tr>
<tr>
<td>Wood shakes 3</td>
<td>.0915 shingle nail .0915 to .099 T-nail</td>
<td>2 nails per shake</td>
</tr>
<tr>
<td>Particle board roof and wall sheathing (1/2” or less)</td>
<td>6d common</td>
<td>6” o.c. direct edges and 12” o.c. intermediate</td>
</tr>
<tr>
<td>5/8” or greater</td>
<td>8d common</td>
<td>6” o.c. direct edges and 12” o.c. intermediate</td>
</tr>
<tr>
<td>Wood structural panel roof and wall sheathing (1/2” or less)</td>
<td>6d common</td>
<td>6” o.c. direct edges and 12” intermediate</td>
</tr>
<tr>
<td>(19/32” or greater)</td>
<td>8d common</td>
<td>6” o.c. direct edges and 12 o.c. intermediate</td>
</tr>
<tr>
<td>----------------------</td>
<td>-----------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>Weatherboarding</td>
<td>8d corrosion resistant</td>
<td>2 each beating</td>
</tr>
</tbody>
</table>

1. Shingles and shakes attached to roof sheathing having the underside of the sheathing exposed to visual view may be attached in these locations with nails having shorter lengths than specified so as not to penetrate the exposed side of the sheathing.

2. All nails shall be corrosion resistant.

3. Nails may have T-heads, clipped round heads or standard heads.

4. Roof coverings shall be fastened in an approved manner.

5. Nails shall be long enough to penetrate into the sheathing ¾” or through the thickness of the sheathing, whichever is less.

6. Annularly threaded nails with minimum 1” diameter heads shall be used for plywood decks.

   a. Shingle nails shall penetrate not less than ¾” into nailing strips, sheathing or supporting construction except as otherwise provided for in section 1507.0
## FASTENING SCHEDULE

<table>
<thead>
<tr>
<th>BUILDING ELEMENT</th>
<th>NAIL SIZE AND TYPE</th>
<th>NUMBER AND LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wall and Roof Sheathing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1” wall sheathing (8” or less in width)</td>
<td>8d common</td>
<td>2 each direct stud</td>
</tr>
<tr>
<td>1” wall sheathing (over 8” in width)</td>
<td>8d common</td>
<td>3 each direct</td>
</tr>
<tr>
<td>Diagonal wall sheathing (seismic bracing)</td>
<td>See Table 2306.4.5</td>
<td></td>
</tr>
<tr>
<td>½” fiberboard sheathing</td>
<td>1 ½” galvanized roofing nail or 6d common nail</td>
<td>3” o.c. exterior edge 6” o.c. intermediate</td>
</tr>
<tr>
<td>25/32” fiberboard sheathing</td>
<td>1 ¾” galvanized roofing nail or 8d common nail</td>
<td>3” o.c. exterior edge 6” o.c. intermediate</td>
</tr>
<tr>
<td>Gypsum sheathing</td>
<td>12 ga. 1 ¼” large head, corrosion resistant</td>
<td>4” o.c. on edge 8” o.c. intermediate</td>
</tr>
<tr>
<td>Gypsum sheathing (seismic bracing)</td>
<td>11 ga. 1 ¾” long 7/16” head, diamond point, galvanized</td>
<td>4” o.c. all bearing points</td>
</tr>
</tbody>
</table>
## FASTENING SCHEDULE

<table>
<thead>
<tr>
<th>BUILDING ELEMENT</th>
<th>NAIL SIZE AND TYPE</th>
<th>NUMBER AND LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>WALL CONSTRUCTION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stud to sole plate</td>
<td>8d common</td>
<td>4 toe nail or 2 direct</td>
</tr>
<tr>
<td>Stud to cap plate</td>
<td>16d common</td>
<td>2 toe nail or 2 direct</td>
</tr>
<tr>
<td>Double studs</td>
<td>10d common</td>
<td>12” o.c. direct</td>
</tr>
<tr>
<td>Corner studs</td>
<td>16d common</td>
<td>24” o.c. direct</td>
</tr>
<tr>
<td>Sole plate to joist or block</td>
<td>16d common</td>
<td>16” o.c.</td>
</tr>
<tr>
<td>Interior-braced wall sole plate to parallel joist</td>
<td>16d common</td>
<td>12 o.c.</td>
</tr>
<tr>
<td>Double cap plate</td>
<td>10d common</td>
<td>12” o.c.</td>
</tr>
<tr>
<td>Cap plate laps</td>
<td>10d common</td>
<td>2 direct nail</td>
</tr>
<tr>
<td>Ribbon strip 6” less</td>
<td>10d common</td>
<td>2 each direct bearing</td>
</tr>
<tr>
<td>Ribbon strip 6” or more</td>
<td>10d common</td>
<td>3 each direct bearing</td>
</tr>
<tr>
<td>Diagonal brace (to stud and plate)</td>
<td>8d common</td>
<td>2 each direct bearing</td>
</tr>
<tr>
<td>Interior-braced wall top plate to joist or blocking</td>
<td>10d common</td>
<td>12” o.c.</td>
</tr>
<tr>
<td>Tall beams to headers (where nailing is permitted)</td>
<td>20d common</td>
<td>1 each end 4 sq. ft. floor area</td>
</tr>
<tr>
<td>Header beams to trimmers (where nailing is permitted)</td>
<td>20d common</td>
<td>1 each end 8 sq. ft. floor area</td>
</tr>
<tr>
<td>Continuous header to stud</td>
<td>8d common</td>
<td>4 toe nail</td>
</tr>
<tr>
<td>Continuous header two pieces</td>
<td>16d common</td>
<td>16” o.c. direct</td>
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</tbody>
</table>
**OTHER GYPSUM INSTALLATION (NAILS)**

<table>
<thead>
<tr>
<th>Thickness of gypsum wall-board inches</th>
<th>Plane of framing surface</th>
<th>Long dimension of gypsum wallboard sheets in relation to direction of framing members</th>
<th>Maximum spacing of framing members center to center in inches</th>
<th>Maximum spacing of fasteners center to center in inches</th>
<th>Nails (a) to wood</th>
</tr>
</thead>
<tbody>
<tr>
<td>½”</td>
<td>Horizontal</td>
<td>Either direction</td>
<td>16</td>
<td>7</td>
<td>No. 13 ga., 1 5/8” long, 19/64” head, .098” diameter, 1-3/8” long, annular ringed 6d cooler nail</td>
</tr>
<tr>
<td></td>
<td>Horizontal</td>
<td>Perpendicular</td>
<td>24</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vertical</td>
<td>Either direction</td>
<td>24</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>½” or 5/8” with adhesive</td>
<td>Horizontal</td>
<td>Either direction</td>
<td>16</td>
<td>16</td>
<td>As required for ½” and 5/8” gypsum wallboard, see above</td>
</tr>
<tr>
<td></td>
<td>Horizontal</td>
<td>Perpendicular</td>
<td>24</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vertical</td>
<td>Either direction</td>
<td>24</td>
<td>16</td>
<td></td>
</tr>
</tbody>
</table>
2 layers each 3/8" (3/4" total)  
<table>
<thead>
<tr>
<th>Horizontal</th>
<th>Perpendicular Either direction</th>
<th>24</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical</td>
<td></td>
<td>24</td>
<td>24</td>
</tr>
</tbody>
</table>

Base ply nailed as required for ½” gypsum wallboard and face ply placed with adhesive

- a. Where the metal framing has a clinching design formed to receive the nails by two edges of metal, the nails shall not be less than 5/8” longer than the wallboard thickness, and shall have ringed shanks. Where the metal framing has a nailing groove formed to receive the nails, the nails shall have barbed shanks or be 5d cooler nails (No. 13-1/2 ga., 1-5/8” long, 15/16” head). For ½” gypsum wallboard; 6d cooler (No. 13 ga., 1-7/8” long, 15/64” head) for 5/8” gypsum wallboard.

- b. Two nails at 2” to 2-1/2” apart are permitted to be used if the pairs are spaced 12” center-to-center except around perimeters.

- c. For fire-resistance rated construction assemblies, see the pertinent fire test information.

- d. One inch equals 25.4 mm.
## OTHER GYPSUM INSTALLATION (SCREWS)

<table>
<thead>
<tr>
<th>Thickness of gypsum wallboard inches</th>
<th>Plane of framing surface</th>
<th>Long dimension of gypsum wallboard sheets in relation to direction of framing members</th>
<th>Maximum spacing of framing members center to center in inches</th>
<th>Maximum spacing of fasteners center to center in inches</th>
<th>Nails (a) to wood</th>
</tr>
</thead>
<tbody>
<tr>
<td>½”</td>
<td>Horizontal</td>
<td>Either direction</td>
<td>16</td>
<td>12</td>
<td>No. 13 ga., 1-3/8” long, 19/64” head, .098” diameter, 1-1/4” long, annular ringed 5d cooler nail</td>
</tr>
<tr>
<td>5/8”</td>
<td>Horizontal</td>
<td>Either direction</td>
<td>16</td>
<td>12</td>
<td>No. 13 ga., 1-5/8” long, 19/64” head, .098” diameter, 1’3/8” long, annular ringed, 6d cooler nail</td>
</tr>
<tr>
<td>½” or 5/8” with adhesive</td>
<td>Horizontal</td>
<td>Either direction</td>
<td>16</td>
<td>16</td>
<td>As required for ½” and 5/8” gypsum wallboard, see above</td>
</tr>
<tr>
<td>½” or 5/8” with adhesive</td>
<td>Vertical</td>
<td>Either direction</td>
<td>24</td>
<td>24</td>
<td>As required for ½” and 5/8” gypsum wallboard, see above</td>
</tr>
<tr>
<td>½” or 5/8” with adhesive</td>
<td>Vertical</td>
<td>Either direction</td>
<td>24</td>
<td>24</td>
<td>As required for ½” and 5/8” gypsum wallboard, see above</td>
</tr>
</tbody>
</table>
2 Layers each 3/8” (3/4” total) | Horizontal | Perpendicular Either direction | 24 | 6 | 24 | Base ply nailed as required for ½” gypsum wallboard and face ply placed with adhesive

a. Screws shall be No. 6 with tapered head and long enough to penetrate into wood framing not less than 5/8” and metal framing not less than ¼”.

b. For fire-resistance rated construction assemblies, see the pertinent fire test information.

c. One inch equals 25.4 mm.
## THICKNESS OF PLASTER

**FINISHED THICKNESS OF PLASTER FROM FACE OF LATH, MASONRY, CONCRETE**

<table>
<thead>
<tr>
<th>PLASTER BASE</th>
<th>GYPSUM PLASTER</th>
<th>PORTLAND CEMENT MORTAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expanded metal lath</td>
<td>5/8” minimum (1)</td>
<td>5/8” minimum (1)</td>
</tr>
<tr>
<td>Wire lath</td>
<td>5/8” minimum (1)</td>
<td>3/4” minimum (interior) (2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7/8” minimum (exterior) (2)</td>
</tr>
<tr>
<td>Gypsum lath</td>
<td>1/2” minimum</td>
<td></td>
</tr>
<tr>
<td>Masonry walls (3)</td>
<td>½” minimum</td>
<td>1/2” minimum</td>
</tr>
<tr>
<td>Monolithic concrete walls (3, 4)</td>
<td>5/8” maximum</td>
<td>7/8” maximum</td>
</tr>
<tr>
<td>Monolithic concrete ceilings (3, 4)</td>
<td>3/8” maximum (5)</td>
<td>1/2” maximum</td>
</tr>
<tr>
<td>Gypsum veneer base (6)</td>
<td>1/16” minimum</td>
<td></td>
</tr>
</tbody>
</table>

For SI: 1 inch + 25.4mm.

1. When measured from back plane of expanded metal lath, exclusive of ribs, or self-furring lath, plaster thickness shall be ¾” minimum.
2. When measured from face of support or backing.
3. Because masonry and concrete surfaces may vary in plane, thickness of plaster need not be uniform.
4. When applied over liquid bonding agent, finish coat may be applied directly to concrete surface.
5. Approved acoustical plaster may be applied directly to concrete or over base coat plaster, beyond the maximum plaster thickness shown.
6. Attachment shall be in accordance with table (APPLICATION AND MINIMUM THICKNESS OF GYPSUM WALLBOARD).
# Gypsum Plaster Proportions (1)

**Maximum Volume**

**Aggregate Per 100 Pounds Meat Plaster (2)**

<table>
<thead>
<tr>
<th>Number</th>
<th>Coat</th>
<th>Plaster Base or Lath</th>
<th>Dampl Loose Sand</th>
<th>Perlite or Vermiculite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two-coat work</td>
<td>Base coat</td>
<td>Gypsum lath</td>
<td>2 ½</td>
<td>2</td>
</tr>
<tr>
<td>Two-coat work</td>
<td>Base coat</td>
<td>Masonry</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Three-coat work</td>
<td>First coat</td>
<td>Lath</td>
<td>2 (4)</td>
<td>5</td>
</tr>
<tr>
<td>Three-coat work</td>
<td>Second coat</td>
<td>Lath</td>
<td>3 (4)</td>
<td>2 (5)</td>
</tr>
<tr>
<td>Three-coat work</td>
<td>First and Second coats</td>
<td>Masonry</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

For SI: 1 inch + 25.4 mm. 1 cubic foot + 0.0283 m to the third power, 1 pound + 0.454 kg.

1. Wood fibered gypsum plaster may be mixed in the portions of 100 pounds of gypsum to not more than 1 cubic foot of sand where applied on masonry or concrete.
2. When determining the amount of aggregate in set plaster, a tolerance of 10 percent shall be allowed.
3. Combinations of sand and lightweight aggregate may be used, provided the volume and weight relationship of the combined aggregate to the gypsum plaster is maintained.
4. If used for both first and second coats, the volume of aggregate may be 2 ½ cubic feet.
5. Where plaster is 1 inch or more in total thickness, the proportion for the second coat may be increased to 3 cubic feet.
**MORTAR PROPORTIONS**

**PROPORTIONS BY VOLUME (Cementitious Materials)**

<table>
<thead>
<tr>
<th>Mortar Type</th>
<th>Portland Cement or Bleached Cement</th>
<th>Masonry Cement</th>
<th>Hydrated Lime or Lime Putty</th>
<th>Aggregate Ratio Measured in Damp, Loose Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cement-Lime</td>
<td>M 1</td>
<td>___ ___ ___</td>
<td>¼</td>
<td>Not less than 2 ¼ and not more than 3 times the sum of separate volumes of lime, if used, and cement</td>
</tr>
<tr>
<td></td>
<td>S 1</td>
<td>___ ___ ___</td>
<td>Over ¼ to ½</td>
<td></td>
</tr>
<tr>
<td></td>
<td>N 1</td>
<td>___ ___ ___</td>
<td>Over ½ to 1 ¼</td>
<td></td>
</tr>
<tr>
<td></td>
<td>O 1</td>
<td>___ ___ ___</td>
<td>Over 1 ¼ to 2 ½</td>
<td></td>
</tr>
</tbody>
</table>

| Masonry Cement | M 1 | ___ ___ ___ | 1 | Not less than 2 ¼ and not more than 3 times the sum of separate volumes of lime, if used, and cement |
|                | M ½" | ___ ___ ___ | 1 |                                               |
|                | S ___ | ___ ___ ___ | 1 |                                               |
|                | N ___ | ___ ___ ___ | 1 |                                               |
|                | O ___ | ___ ___ ___ | 1 |                                               |

For SI: 1 cubic foot = 0.0283 m to the third power, 1 pound = 0.454 kg

1. For the purpose of these specifications, the weight of 1 cubic foot of the respective materials shall be considered to be as follows:
   - Portland Cement: 94 lb.
   - Masonry Cement: Weight printed on the bag
   - Hydrated Lime: 40 lb.
   - Lime Putty (Quicklime): 80 lb.
   - Sand, damp and loose: 80 lb.

2. Two air-entraining materials shall not be combined in mortar

**GROUT PROPORTIONS BY VOLUME FOR MASONRY CONSTRUCTION**

**AGGREGATE MEASURED IN A DAMP, LOOSE CONDITION**

<table>
<thead>
<tr>
<th>Type</th>
<th>Portland Cement or Blended Concrete Slag Cement</th>
<th>Hydrate Lime or Lime Putty</th>
<th>Fine</th>
<th>Coarse</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fine</td>
<td>1</td>
<td>0 to 1/10</td>
<td>2 ¼ to 3 times the sum of the volume of the cementitious materials</td>
<td>1 to 2 times the sum of the Volumes of the cementitious materials</td>
</tr>
<tr>
<td>Coarse</td>
<td>1</td>
<td>0 to 1/10</td>
<td>2 ¼ to 3 times the sum of the volume of the cementitious materials</td>
<td></td>
</tr>
<tr>
<td>Siding Material</td>
<td>Normal Thickness (Inches)</td>
<td>Plywood Particle Board</td>
<td>Fiberboard</td>
<td>Gypsum</td>
</tr>
<tr>
<td>-----------------</td>
<td>--------------------------</td>
<td>------------------------</td>
<td>------------</td>
<td>--------</td>
</tr>
<tr>
<td>Horizontal Aluminum siding Without Insulation</td>
<td>.019</td>
<td>.120 nail-1-1/2”</td>
<td>.120 nail-2”</td>
<td>.120 nail-2”</td>
</tr>
<tr>
<td>With insulation</td>
<td>.019</td>
<td>.120 nail-1-1/2”</td>
<td>.120 nail-2-1/2”</td>
<td>.120 nail-2-1/2”</td>
</tr>
</tbody>
</table>

**GYPSUM PLASTER PROPORTIONS (1)**

**MAXIMUM VOLUME AGGREGATE PER 100 POUNDS MEAT PLASTER (2)**

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>COAT</th>
<th>PLASTER BASE OF LATH</th>
<th>DAMP LOOSE SAND</th>
<th>PERLITE OF VERMICULITE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two-coat work</td>
<td>Base coat</td>
<td>Gypsum lath</td>
<td>2 ½</td>
<td>2</td>
</tr>
<tr>
<td>Two-coat work</td>
<td>Base coat</td>
<td>Masonry</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Three-coat work</td>
<td>First coat</td>
<td>Lath</td>
<td>2 (4)</td>
<td>5</td>
</tr>
<tr>
<td>Three-coat work</td>
<td>Second coat</td>
<td>Lath</td>
<td>3 (4)</td>
<td>2 (5)</td>
</tr>
<tr>
<td>Three-coat work</td>
<td>First and Second coats</td>
<td>Masonry</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

For SI: 1 inch + 25.4 mm. 1 cubic foot + 0.0283 m to the third power, 1 pound + 0.454 kg.

1. Wood-fibered gypsum plaster may be mixed in the portions of 100 pounds of gypsum to not more than 1 cubic foot of sand where applied on masonry or concrete.
2. When determining the amount of aggregate in set plaster, a tolerance of 10 percent shall be allowed.
3. Combinations of sand and lightweight aggregate may be used, provided the volume and weight relationship of the combined aggregate to the gypsum plaster is maintained.
4. If used for both first and second coats, the volume of aggregate may be 2 ½ cubic feet.
5. Where plaster is 1 inch or more in total thickness, the proportion for the second coat may be increased to 3 cubic feet.

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