

**8—FOLIATION**

| REF NO  | DESCRIPTION  | SYMBOL    | CARTOGRAPHIC SPECIFICATIONS   | NOTES ON USAGE  |
|---|--|-----------|---|---|
| <b>8.1—Foliation and layering in igneous rock</b> |  |           |   |   |
| 8.1.1   | Massive igneous rock   | ∴         | dot diameter .5 mm<br>1.25 mm<br>90°  | May be used separately or in combination with other symbols.  |
| 8.1.2   | Horizontal flow foliation or layering in igneous rock  | ⊙         | lineweight .15 mm<br>diameter 2.5 mm<br>1.75 mm<br>60°                                  | For individual symbols other than horizontal foliation and massive igneous rock, point of observation is midpoint of strike line. |
| 8.1.3   | Inclined flow foliation or layering in igneous rock—Showing strike and dip   | <u>10</u> | 5.0 mm<br>.875 mm<br>10<br>60°<br>HI-6<br>lineweight .15 mm                             | For combined symbols, point of observation is the junction point common to all strike lines.                                      |
| 8.1.4   | Vertical or near-vertical flow foliation or layering in igneous rock—Showing strike  | —◇—       | 1.75 mm<br>60°  | Use symbol for massive igneous rock at locality where foliation and lineation are absent.   |
| 8.1.5   | Inclined crinkled or deformed flow foliation or layering in igneous rock—Showing approximate strike and dip  | <u>20</u> | 5.0 mm<br>.375 mm<br>20<br>60°<br>HI-6<br>lineweight .15 mm<br>1.0 mm radius<br>.875 mm | Use ball indicating known top direction of layers only on maps where top direction may be in doubt elsewhere.                     |
| 8.1.6   | Vertical or near-vertical crinkled or deformed flow foliation or layering in igneous rock—Showing approximate strike   | —◇—       | 1.75 mm<br>60°  |   |
| 8.1.7   | Horizontal cumulate foliation parallel to layering in igneous rock   | ⊕         | lineweight .15 mm<br>diameter 2.5 mm<br>.55 mm  |   |
| 8.1.8   | Inclined cumulate foliation parallel to layering in igneous rock—Showing strike and dip  | <u>45</u> | HI-6<br>.875 mm<br>45<br>5.0 mm<br>5 mm   |   |
| 8.1.9   | Inclined cumulate foliation parallel to upright layering in igneous rock—Showing strike and dip. Top direction of layers known from local features                   | <u>30</u> | 30<br>dot diameter .75 mm   |   |
| 8.1.10  | Vertical or near-vertical cumulate foliation parallel to layering in igneous rock—Showing strike   | —  —      | 2.25 mm   |   |
| 8.1.11  | Vertical or near-vertical cumulate foliation parallel to layering in igneous rock—Showing strike. Ball shows top direction of layers where known from local features | —●—       | dot diameter .75 mm   |   |
| 8.1.12  | Inclined cumulate foliation parallel to overturned layering in igneous rock—Showing strike and dip   | <u>70</u> | 70<br>underbar interrupted around dip symbol<br>.625 mm radius                          |   |
| 8.1.13  | Inclined cumulate foliation parallel to overturned layering in igneous rock—Showing strike and dip. Top direction of layers known from local features                | <u>80</u> | 80<br>dot diameter .75 mm   |   |
| 8.1.14  | Inclined crinkled or deformed cumulate foliation in layered igneous rock—Showing approximate strike and dip  | <u>15</u> | HI-6<br>5.0 mm<br>tick length<br>.375 mm<br>.3 mm<br>1.0 mm radius<br>lineweight .15 mm |   |
| 8.1.15  | Vertical or near-vertical crinkled or deformed cumulate foliation in layered igneous rock—Showing approximate strike   | —◇—       | 2.25 mm   |   |
| 8.1.16  | Horizontal compaction foliation in ash-flow tuff   | ⊙         | diameter 2.75 mm<br>lineweight .15 mm<br>60°  |   |
| 8.1.17  | Inclined compaction foliation in ash-flow tuff—Showing strike and dip  | <u>20</u> | 5.0 mm<br>.875 mm<br>20<br>HI-6<br>.5 mm<br>lineweight .15 mm                           |   |
| 8.1.18  | Vertical or near-vertical compaction foliation in ash-flow tuff—Showing strike   | —  —      | 1.5 mm  |   |
| 8.1.19  | Inclined crinkled or deformed compaction foliation in ash-flow tuff—Showing approximate strike and dip   | <u>25</u> | 1.0 mm radius<br>HI-6<br>.875 mm<br>25<br>lineweight .15 mm<br>5.0 mm<br>.375 mm        |   |
| 8.1.20  | Vertical or near-vertical crinkled or deformed compaction foliation in ash-flow tuff—Showing approximate strike  | —◇—       | 1.75 mm   |   |

**8—FOLIATION (continued)**

| REF NO  | DESCRIPTION  | SYMBOL | CARTOGRAPHIC SPECIFICATIONS   | NOTES ON USAGE  |
|---|--|--------|---|---|
| <b>8.2—Foliation and layering in metamorphic rock</b> |  |        |   |   |
| 8.2.1   | Horizontal foliation in metamorphic rock   |        | diameter 2.5 mm<br>line weight .15 mm<br>60°<br>1.75 mm                 | May be used separately or in combination with other symbols.<br><br>For individual symbols other than horizontal foliation, point of observation is midpoint of strike line.<br><br>For combined symbols, point of observation is the junction point common to all strike lines.<br><br>Use ball indicating known top direction of beds only on maps where top direction may be in doubt elsewhere. |
| 8.2.2   | Inclined foliation in metamorphic rock—Showing strike and dip  |        | 5.0 mm<br>.875 mm<br>HI-6<br>line weight .15 mm<br>60°                  |   |
| 8.2.3   | Vertical or near-vertical foliation in metamorphic rock—Showing strike   |        | 1.75 mm<br>60°  |   |
| 8.2.4   | Inclined crinkled or deformed foliation in metamorphic rock—Showing approximate strike and dip   |        | 5.0 mm<br>.375 mm<br>HI-6<br>line weight .15 mm<br>60°<br>1.0 mm radius |   |
| 8.2.5   | Vertical or near-vertical crinkled or deformed foliation in metamorphic rock—Showing approximate strike  |        | 1.75 mm<br>60°  |   |
| 8.2.6   | Horizontal foliation parallel to bedding in metamorphic rock   |        | diameter 2.5 mm<br>line weight .15 mm<br>60°<br>1.75 mm                 |   |
| 8.2.7   | Inclined foliation parallel to bedding in metamorphic rock—Showing strike and dip  |        | HI-6<br>5.0 mm<br>.875 mm<br>line weight .15 mm<br>60°<br>.75 mm        |   |
| 8.2.8   | Inclined foliation parallel to upright bedding in metamorphic rock—Showing strike and dip. Top direction of beds known from local features                     |        | 35<br>dot diameter .75 mm   |   |
| 8.2.9   | Vertical or near-vertical foliation parallel to bedding in metamorphic rock—Showing strike   |        | 3.25 mm<br>60°  |   |
| 8.2.10  | Vertical or near-vertical foliation parallel to bedding in metamorphic rock—Showing strike. Ball shows top direction of layers where known from local features |        | dot diameter .75 mm   |   |
| 8.2.11  | Inclined foliation parallel to overturned bedding in metamorphic rock—Showing strike and dip   |        | 75<br>.625 mm radius  |   |
| 8.2.12  | Inclined foliation parallel to overturned bedding in metamorphic rock—Showing strike and dip. Top direction of beds known from local features                  |        | 85<br>dot diameter .75 mm   |   |