**Origami™**

**AQUILEGIA CAERULEA**

*Minimum Germination Rate:* 85%
*Seed Product Form:* Raw

## FLOWERING

*Time frame when plants are receptive to flower initiation:* 4 – 6 leaves present.
*Flowering Type:* Facultative long-day plant – long days enhance flowering.
*Specific Flowering Mechanism:* A vernalization treatment is needed to initiate flowering. Origami can be vernalized once the plugs have established root systems and are at least 6 – 8 weeks old. Light intensity enhances flowering.

## PLUG CULTURE

**Germination:** Optimum conditions for seedling development that begins the day the crop is sown until cotyledon expansion. Expect radicle emergence in 6 – 8 days.

**Seed Handling:** No special treatments are needed prior to sowing. Chilling the seed prior to sowing is not advisable. It may be desirable to double sow larger plug trays.

**Cover:** No cover is necessary. However, seeds may be covered with a thin layer of coarse vermiculite to maintain moisture levels.

**Media:**
- **pH:** 5.5 – 5.8
- **EC:** 0.5

**Light:** Light is necessary for germination. If utilizing a chamber, providing a light source of 10 – 100 foot candles (100 – 1,000 lux) will improve germination and reduce stretch.

**Temperature:** 70° – 72°F (21° – 22°C)

**Moisture:** Wet (4) until radicle emergence. Then reduce moisture level to medium (2).

**Humidity:** 100% until radicle emergence then reduce to 70%.

**Dehumidify:** Provide horizontal airflow to aid in drying down the media through evapotranspiration, allowing better penetration of oxygen to the roots.

**Plug Bulking:** Optimum conditions during the vegetative period, beginning at cotyledon expansion, needed for the root to reach the edge of the plug cell.

**Media:**
- **pH:** 5.5 – 5.8
- **EC:** 0.5 – 0.75

**Temperature:** 65° – 68°F (18° – 20°C)

**Moisture:** Alternate between moisture levels moist (3) and medium (2). Allow media to approach level (2) before re-saturating to level (3).

**Humidity:** 65 – 70%. Provide horizontal airflow to aid in drying down the media through evapotranspiration under cool, low light conditions.

**Fertilizers:** 50 – 100 ppm nitrogen weekly or as needed with a calcium-based fertilizer (13-2-13 or 14-4-14).

**Plug Flower Initiation:** Optimum conditions to make plant receptive to flower initiation.

**Light:** Provide 3,500 – 4,500 foot candles (12 – 15 total mols or 35,000 – 45,000 lux) to hasten flower induction. Supplemental lighting under low light conditions at 350 – 450 foot candles (35,000 – 45,000 lux) will enhance shoot and root growth.

**Temperature:** Maintain night temperatures within 40° – 50°F (5° – 10°C) for 14 – 21 days. Bred in Gilroy, CA, Origami is more tolerant of higher vernalization temperatures than other Aquilegia. This is an advantage for Southern growers.

**Average Daily Temperature (ADT):** After vernalization ADT is 65° – 67°F (18° – 19°C).

**Fertilizers:** 100 ppm nitrogen as needed of a calcium-based fertilizer 13-2-13 or 14-4-14.

**Growth Regulators:** If necessary, Origami will respond to B-Nine (daminozide) at 2,500 ppm. PGRs are more effective in the early stages of production.

**Fungicides:** Apply preventative fungicides for Botrytis prior to vernalization.

## GROWING ON

Origami’s unique habit easily adapts to a variety of container sizes. Suitable for packs and larger containers, Origami naturally adjusts to finish habit to fit proportionally into whatever container you choose – without the use of growth regulators.

**Transplant Ready:** 9 – 10 weeks from sow in a ‘288’ tray.

**Note:** These suggestions are only guidelines and may have to be altered to meet individual grower’s needs. Check all chemical labels to verify registration for use in your region.

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**aquilegia scheduling in weeks**

**PRODUCT USE**

| Packets, pots, containers, mass plantings. Traditionally a spring blooming perennial, Origami has been bred for an extended bloom window that will increase its value in the landscape. |

**GARDEN SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Light: Filtered shade to full sun</th>
<th>USDA Hardiness Zone: 4</th>
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<tbody>
<tr>
<td>AHS Heat Zone: 8 – 1</td>
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<table>
<thead>
<tr>
<th>Garden Height</th>
<th>Garden Width</th>
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<tbody>
<tr>
<td>Origami</td>
<td>14 – 16” (35 – 40 cm)</td>
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**AQUILEGIA SCHEDULING IN WEEKS**

<table>
<thead>
<tr>
<th><strong>Total crop time</strong></th>
<th>20 – 24</th>
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<tbody>
<tr>
<td><strong>‘288’ plug crop time</strong></td>
<td>9 – 10</td>
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<tr>
<td><strong>Transplant to finish crop time</strong></td>
<td></td>
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<tr>
<td><strong>Vernalization in finish container</strong></td>
<td>2 – 3. A well established root system is required before plants are vernalized.</td>
</tr>
<tr>
<td><strong>4” crop</strong></td>
<td>9 – 11</td>
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