easy grow guide geranium horizon/horizon shadow/divas



Plug Production: 288 plugs or larger

Sowing/Media: Use a well-drained, disease-free, peat-based plug medium with pH 6.0-6.2, EC

<0.75mmhos. Media should be saturated prior to sowing for optimum germination. Cover seed with vermiculite, or a vermiculite/media mix and irrigate again to ensure the

vermiculite is wet. High moisture levels are critical for success.

Germination Stage 1 & 2: (5-7 days)

Media temperature should be 70-73°F (21-23°C). Temperatures higher than 25°C (77°F) can cause thermo-dormancy. Keep light levels <1500 f.c. Light is not essential for germination but is beneficial. Maintain temperatures and high humidity until days 5-7.

Germination Stage 3: Media temperature can be dropped to 65-68°F (18-20°C), light levels should be <3000

f.c. HID lights can promote growth and faster flowering in periods of low light. Fertilize with 100-150ppm N from 15-5-15, 17-5-17 or 13-2-13, keep media pH at 6.0-6.5 no lower

and EC <1.5mmhos.

Germination Stage 4: Media temperatures can be lowered to 62-65°F (16-18°C), light levels should be

maintained around 3000 f.c. Dry down between irrigations but avoid wilt. Fertilize with 100-150ppm N from 13-2-13 to tone seedlings. When 3 true leaves are present, you can begin to spray with Cycocel (250-750 ppm) or B-Nine (800-1500) + Cycocel (250-500 ppm) to control growth. It is best to run your own trials to avoid overdosing, as weather

and cultural regimes can affect the requirements.

Growing on to Finish: Packs, 4" (10cm) pots

Media: Use a well-drained, disease free, peat-based growing mix with pH 6.0-6.2 (no lower) and

EC <1.5mmhos.

Temperatures: Temperatures for rooting out after transplant should be 65-68°F (18-20°C)

Temperatures for growing on can be lowered to 62-65°F (16-18°C)

Light levels should be 3000-5000 f.c. as a guide. HID lights can be used in low light

periods to give more total light and encourage flowering.

Irrigation: Practice a good wet/dry moisture cycle but avoid wilting. Geraniums do not like to be too

wet but can't tolerate wilt either.

Fertilizer: Feed 1–2 times per week with 150–200 ppm N from 15-5-15, 17-5-17, or 13-2-13, it is

best to use calcium-based fertilizers, extra iron can be added if needed. Keep media pH

6.0–6.8, and media EC 1.25–1.75 mmhos, any higher can cause root damage.

Growth Regulators: Use sprays of Cycocel (350-1500 ppm) or B-Nine (800-1500) + Cycocel (350-1000 ppm)

to control growth. Bonzi sprays (2–5 ppm) can also be used once the foliage covers the media but do not drench with Bonzi as it has a strong effect on Geranium growth. It is best to run your own trials to avoid overdosing, as weather and cultural regimes can

affect the requirements

Pests: Aphids, Thrips

Diseases: Pythium, Botrytis, Alternaria Leafspot, Rust. Necrosis on lower leaves is likely to be

caused by media pH <6.0, upper yellow leaves - high media pH >6.8 or low iron.

Plug Times:

288 plug: 4-6 weeks from sowing to transplant

Transplant to Finish:

Container	Plants per Container	Transplant to Finish	Total Crop Time
Packs:	1 x plug per cell	8-10 weeks	12-14 weeks
4" (10cm):	1 x plug	10-11 weeks	14-15 weeks
6" (15cm):	1 x plug	12-14 weeks	16-18 weeks

Crop times are based on optimum conditions. Alternative environmental conditions and cultural regimes can lengthen the crop times stated above.