



DÜMMEN
ORANGE™

for you

Succulent Culture Guide

The Dümmen Orange succulent program pairs nature's easiest plants with world-class dependable production for professional growers. The program offers a diverse mix of genera to provide your customers with a trendy mix of foliage textures, colors and flower power. Plants can be merchandised on their own or combined into mixed combinations with other low water use annuals such as arctotis, portulaca and scaevola for dynamic drought tolerant solutions for consumers.

The following culture guide gives growers a starting point using the Dümmen Orange unrooted cutting program. Crop times and needs will vary by genus, time of year and greenhouse environmental conditions.

Succulent Culture Guide

Propagation

pH: 5.8-6.2

Soil Temperature: Maintain a substrate temperature of 68-72°F (20-22°C) until roots are visible.

Fungicide: A protective fungicide should be applied immediately after sticking.

Watering: Keep trays consistently moist, but never saturated. Over saturation of the media will lead to stem rot early in production.

Plant Growth Regulators: Succulents absorb and store PGRs for excessive amounts of time. Do not use chemical PGRs on liner trays. Control growth with high light and cool temperatures.

Timing: Rooted liners should be ready for transplanting 24 to 28-days after sticking, however, certain varieties will take more time.

Finished Production

pH: 5.8-6.2

EC: 0.6-0.9

Fertilization: Succulents require low feed. Apply 100 ppm every third irrigation at 15-15-15. Reduce feed when plants are not actively growing in winter months.

Light Requirements: Medium to high levels are best for production. Use light shade in very hot dry climates during summer months. Many varieties require high light, paired with low night temperatures, to bring out the bright foliage colors.

Water Requirements: Low. Only irrigate when needed and allow pots to dry down between waterings.

Rooting Out Temperatures: 70-75°F (21-24°C)

Growing On Temperatures: 72-78°F (22-26°C)
Day | 60-65°F (16-18°C) Night

Holding Temperatures: 55-65°F (13-18°C)

Pinching: Pinching is beneficial on certain varieties including:

Aeonium	2-3 weeks after transplant <i>meristem pinch only</i>
Crassula	2-3 weeks after transplant
Portulacaria	2-3 weeks after transplant
Sedeveria	2-3 weeks after transplant
Sedum	2-3 weeks after transplant <i>large leaf varieties only</i>

Plant Growth Regulators: PGRs are not recommended during production because the plants absorb and hold it for too long and dramatically increase production time. Many growers do use a Bonzi spray at 20 ppm just before shipping to make sure the plants hold a good condition during transport and do not stretch at the retail level or in a consumer's home with reduced light levels. Growth regulators are not recommended for plants being used for the landscape market.

Grower Tips: Succulents are very sensitive to any chemical application. Use caution and conduct test applications prior to applying any pesticides.

Overwatering, paired with cold, damp conditions will lead to root rot and mildew on the foliage. Watch for aphids and spider mites in warm climates.

Succulents show their best color when grown under bright light, cool nights and dry conditions. If plants are produced in a greenhouse environment, it will be beneficial to put plants outside one to two weeks prior to shipping to retail.

Crop Times: The following crop times are general guidelines from a 50-cell liner. Crop times will vary from genus to genus.

4-inch	1ppp	10-12 weeks
6-inch	1ppp	14-18 weeks
8-inch	3ppp	20-22 weeks

