

# POTCALLA GROWING AGENDA & RECOMMENDATIONS 2020



How to grow your potcalla in 9-10 weeks  
**FEBRUARY 2020**

# POTCALLA GROWING AGENDA & RECOMMENDATIONS

WEEK 00 / 09



## STARTING POINTS OF ATTENTION FOR GROWING POTCALLA

- ✓ Pay good attention to WATERMANAGEMENT
- ✓ Do not overwater DUTCH calla's
- ✓ Take pictures of your calla's every week to share with your calla supplier
- ✓ The Kapiteyn Grower Support team is available to answer your questions
- ✓ Read carefully the potcalla growing instructions and this indication planting guide

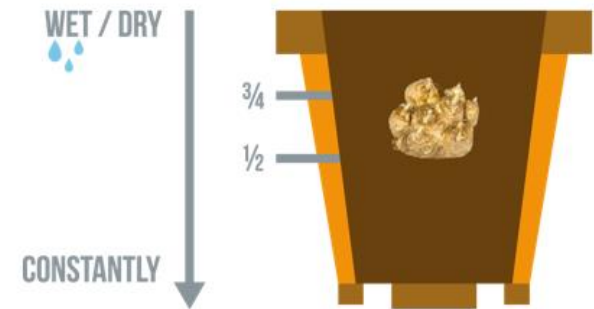
# POTCALLA GROWING AGENDA & RECOMMENDATIONS

WEEK 00 / 09



## PLANT SUBSTRATE AND POTS

- ✓ Use correct medium:  
Medium with high structure cocopeat and well drained  
The growing medium should be sterile and pH of 5.5 – 6.0
- ✓ Use correct new pots:  
Well drained with enough holes and a position structure below  
IF placed directly on ground, make sure the water can flow away easily under the pots.



## PLANTING

- ✓ Fill the pot for 2/3 with substrate, plant the calla and add 1/3 on top
- ✓ Preferably: Do not place the pot direct on the floor
- ✓ Water well during first time of watering (moist, not soaking)
- ✓ Start NPK : 6-14-27+5+TE = 1kg/m<sup>3</sup>

# POTCALLA GROWING AGENDA & RECOMMENDATIONS

GROWING WEEK 00  
EVENT:

WEEK 00 / 09



## SHORT TERM CALLA STORAGE INSTRUCTIONS

Set storage temperature at 9 °C / 48 °F

Set storage RH at 70%

Make sure ceiling air ventilators are switched on 24/7

Create a continuous flow of fresh air

Remove all packing lids from crates and create space between the pallets for a perfect flow of air

## TUBERS HAVE ARRIVED

- ✓ Plant tubers immediately
- ✓ Tubers should be covered with at least 2 inches of planting substrate
- ✓ Drench with Root Shield Plus (4 oz/100 gallons of water).
- ✓ This watering session is the only session in the first stages.
- ✓ Place pots in area with high humidity or direct in greenhouse
- ✓ Cover the pots with acryl cloth and white(not transparant) plastic for approximately 10-14 days

## ADVISED TEMPERATURES & RH

OPTIMUM

NIGHT DAY

68 °F 68 °F

20 °C 20 °C

Recommended RH: +/- 90-100%

# POTCALLA GROWING AGENDA & RECOMMENDATIONS

All further actions depends on climate



**LOW** - Limited quantity of water; check the roots!



**MEDIUM** quantity of water ; check the roots!  
Only water if necessary!



**MORE** water can be applied ; keep checking the roots and plant.  
Only water if necessary!

## PEST & DISEASE MANAGEMENT

### Avoid ERWINIA:

- ✓ Erwinia is a secondary disease, caused by Pythium and Rhizoctonia, primary diseases.
- ✓ Use well draining substrate with preferred opentables or good horizontal airflow around and below the pots.
- ✓ Apply a strict water management according to the instructions in this agenda. Do not irrigate based on a schedule. Irrigate based on the needs of the product and conditions in the greenhouse (f.e. only when sun is shining).
- ✓ Avoid direct sunlight & high temperatures on plant and too high or low humidity.

# POTCALLA GROWING AGENDA & RECOMMENDATIONS

GROWING WEEK 01  
EVENT:

WEEK 01 / 09




## WATER & cover MANAGEMENT

- ✓ Do not water the pots during the time they are covered by acryl cloth and plastic
- ✓ Maintain sprouting temperature
- ✓ Regularly measure the inside temperature of the pots(max 68 °F / 20 °C)
- ✓ Keep the greenhouse RH as high as possible 70-75%
- ✓ After the first sprout emerge remove the plastic and after another 4-5 days remove the acryl cloth
- ✓ Shading at +/- 350 watt/m<sup>2</sup>

## ADDITIONAL WATER MANAGEMENT INFO

*This information is valuable for every phase in the calla growing process*

- Water one time at the start directly AFTER planting by overhead sprinkler 
- Make the pots wet, especially at the toplayer of the substrate (roots come from above)
- Making pots wet does not mean soaking wet, just moist

## ADVISED TEMPERATURES & RH

OPTIMUM

NIGHT	DAY
68 °F	68 °F
20 °C	20-23 °C
Recommended RH: +/- 70-75%	

# POTCALLA GROWING AGENDA & RECOMMENDATIONS

GROWING WEEK 02  
EVENT:

WEEK 02 / 09



## FIRST SPROUTS APPEAR

- ✓ An application of PGR can be applied; make sure the top of the soil is moist before using.
- ✓ Do not use PGR until the roots and sprouts appear
- ✓ The amount of PGR's needed depends on variety, size pot, type of greenhouse, time of the year and geographical location (ask the Kapiteyn specialist for indicative PGR schedule)
- ✓ Sort the pots in different stages
- ✓ The application of PGR is the second moment of watering
- ✓ Shading at +/- 350 watt/m<sup>2</sup>

## ADDITIONAL WATER MANAGEMENT INFO

**WE STRONGLY ADVISE THE FOLLOWING:**

**REGULARLY** check the moist content in the pot! Turn the pot and pull off and check the roots and water content/humidity of substrate.



- When roots are strong and healthy white, the water management is good
- When roots are “transparent” and eventually brown, too much water has been applied!
- In case of transparent roots, contact your supplier.

## ADVISED TEMPERATURES & RH

OPTIMUM

NIGHT	DAY
66-68 °F	66-68 °F
19-23 °C	19-23 °C
Recommended RH: +/- 60%	

# POTCALLA GROWING AGENDA & RECOMMENDATIONS

GROWING WEEK 03  
EVENT:

WEEK 03 / 09



## ADDITIONAL WATER MANAGEMENT INFO

**WE STRONGLY ADVISE THE FOLLOWING:**

**REGULARLY** check the moist content in the pot! Turn the pot and pull off and check the roots and water content/humidity of substrate.



- When roots are strong and healthy white, the water management is good
- When roots are “transparent” and eventually brown, too much water has been applied!
- In case of transparent roots, contact your supplier.

## MAIN AND SIDE ROOTS HAVE FORMED

- ✓ A second application of PGR can be applied; make sure the top of the soil is moist before using.
- ✓ Do not apply second PGR until side roots appear
- ✓ The amount of PGR's needed depends on variety, size pot, type of greenhouse, time of the year and geographical location (ask the Kapiteyn specialist for indicative PGR schedule)
- ✓ Only apply PGR in sprouting stage, before leaves unfold!
- ✓ Plants that have not sprouted should be held in warm area until sprouts have emerged.
- ✓ Use Kristallon Orange 6-12-36 + 3MgO : 10 gr/m<sup>2</sup>
- ✓ EC at 3.0
- ✓ Shading at +/- 350 watt/m<sup>2</sup>

## ADVISED TEMPERATURES & RH

OPTIMUM

NIGHT	DAY
61 °F	64 °F
16 °C	20-23 °C
Recommended RH: +/- 60%	



# POTCALLA GROWING AGENDA & RECOMMENDATIONS

GROWING WEEK 04  
EVENT:

WEEK 04 / 09



## ADDITIONAL WATER MANAGEMENT INFO

**WE STRONGLY ADVISE THE FOLLOWING:**

**REGULARLY** check the moist content in the pot! Turn the pot and pull off and check the roots and water content/humidity of substrate.



- When roots are strong and healthy white, the water management is good
- When roots are “transparent” and eventually brown, too much water has been applied!
- In case of transparent roots, contact your supplier.

## SPACE THE POTS IN TIME!

To make sure your plants will not be stretching too much:

- ✓ Create a good horizontal air flow for 24 hours a day.
- ✓ Avoid to high temperatures inside the greenhouse and pots.
- ✓ High light radiation should be reduced by using shading.
- ✓ Shading at 350 watt/m2.
- ✓ Use Kristallon Orange 6-12-36 + 3MgO: 10 gr/m2
- ✓ EC 3,0

## ADVISED TEMPERATURES & RH

OPTIMUM

NIGHT	DAY
59 °F	65-68 °F
16-18 °C	20-23 °C
Recommended RH: +/- 60%	

Temperature & RH are important during the night!

# POTCALLA GROWING AGENDA & RECOMMENDATIONS

GROWING WEEK 04  
EVENT:

WEEK 04 / 09



## ADDITIONAL WATER MANAGEMENT INFO

### ***WE STRONGLY ADVISE THE FOLLOWING:***

**REGULARLY** check the moist content in the pot! Turn the pot and pull off and check the roots and water content/humidity of substrate

- When roots are strong and healthy white, the water management is good
- When roots are “transparent” and eventually brown, too much water has been applied!
- In case of transparent roots, contact your supplier.



## COMPLETE EMERGENCE OF CROP

- ✓ Soil should not be wet but moist
- ✓ Use Kristallon Orange 6-12-36 + 3MgO: 10 gr/m<sup>2</sup>
- ✓ EC 3,0
- ✓ Remain to use shading at 350 watt/m<sup>2</sup>.

## ADVISED TEMPERATURES & RH

OPTIMUM

NIGHT	DAY
59 °F	65-68 °F
14-16 °C	20-23 °C

Recommended RH: +/- 60%

Temperature & RH are important during the night!

# POTCALLA GROWING AGENDA & RECOMMENDATIONS

GROWING WEEK 05  
EVENT:

WEEK 05 / 09



## ADDITIONAL WATER MANAGEMENT INFO

**WE STRONGLY ADVISE THE FOLLOWING:**

**REGULARLY** check the moist content in the pot! Turn the pot and pull off and check the roots and water content/humidity of substrate



- When roots are strong and healthy white, the water management is good
- When roots are “transparent” and eventually brown, too much water has been applied!
- In case of transparent roots, contact your supplier.

## DO NOT OVERWATER

- ✓ Plants may need more spacing (too dense may cause less flowers and stretching plants)
- ✓ Adequate lighting is extremely important, as number of flowers and overall finished height depend on this.
- ✓ Horizontal airflow is recommended to keep the humidity down ; this will subsequently keep the plants shorter.
- ✓ Use Kristalon Orange 6-12-36 + 3MgO
- ✓ EC 3,5
- ✓ Plants may need Bitterzout (= MgSO<sub>4</sub>spray) 500gr/L> will have a positive reaction on the color of the plants.
- ✓ Plants may need Potassium Phosphate 5ml/m<sup>2</sup> for root improvement
- ✓ In this stage plants require more water

## ADVISED TEMPERATURES & RH

OPTIMUM

NIGHT	DAY
59-61 °F	65-68 °F
15-16 °C	18-22 °C
Recommended RH: +/- 60%	

# POTCALLA GROWING AGENDA & RECOMMENDATIONS

GROWING WEEK 06  
EVENT:

WEEK 06 / 09



## ADDITIONAL WATER MANAGEMENT INFO

**WE STRONGLY ADVISE THE FOLLOWING:**

**REGULARLY** check the moist content in the pot! Turn the pot and pull off and check the roots and water content.



- When roots are strong and healthy white, the water management is good
- When roots are “transparent” and eventually brown, too much water has been applied!
- In case of transparent roots, contact your supplier.

## FIRST BUDS ARE BECOMING VISIBLE

- ✓ Fertilize with Kristalon Orange 6-12-36 + 3MgO
- ✓ EC 3,5
- ✓ Do not let the substrate dry out
- ✓ If needed, give small quantities of water a few times a day
- ✓ Watering must be done in the morning (a few hours after sunrise) before temperature reaches 72 °F / 22 °C
- ✓ ONLY water when the sun is shining
- ✓ Remain to use shading at 350 watt/m<sup>2</sup>

## ADVISED TEMPERATURES & RH

OPTIMUM

NIGHT	DAY
59-61 °F	65-68 °F
15-16 °C	18-20 °C

Recommended RH: +/- 60%

Temperature is important

# POTCALLA GROWING AGENDA & RECOMMENDATIONS

GROWING WEEK 07  
EVENT:

WEEK 07 / 09



## ADDITIONAL WATER MANAGEMENT INFO

**WE STRONGLY ADVISE THE FOLLOWING:**

**REGULARLY** check the moist content in the pot! Turn the pot and pull off and check the roots and water content/humidity of substrate



- When roots are strong and healthy white, the water management is good
- When roots are “transparent” and eventually brown, too much water has been applied!
- In case of transparent roots, contact your supplier.

## FIRST FLOWER IS SHOWING

- ✓ Raise both day and night temperature if no buds are showing
- ✓ This first flower may be removed if desired  
(in case of dominant sprouts)
- ✓ A strong flush of flowers will follow in another 10 days
- ✓ Fertilize with Kristalon Orange 6-12-36 + 3MgO
- ✓ EC 3,0
- ✓ Remain to use shading at 350 watt/m<sup>2</sup>.
- ✓ Keep the substrate moist. If substrate dries out, plants will green fast and flower life will be reduced.

## ADVISED TEMPERATURES & RH

OPTIMUM

NIGHT	DAY
58 °F	65-68 °F
14 °C	18-20 °C

Recommended RH: +/- 60%

Temperature is important

# POTCALLA GROWING AGENDA & RECOMMENDATIONS

GROWING WEEK 08  
EVENT:

WEEK 08 / 09



## ADDITIONAL WATER MANAGEMENT INFO

**WE STRONGLY ADVISE THE FOLLOWING:**

**REGULARLY** check the moist content in the pot! Turn the pot and pull off and check the roots and water content/humidity of substrate.



- When roots are strong and healthy white, the water management is good
- When roots are “transparent” and eventually brown, too much water has been applied!
- In case of transparent roots, contact your supplier.

## FERTILIZE WITH A STRONGER DOSE!

- ✓ Fertilize with Kristalon Orange 6-12-36 + 3MgO
- ✓ EC: 3,0
- ✓ Do not let the substrate dry out
- ✓ Plants need more water!
- ✓ Remain to use shading at 350 watt/m<sup>2</sup>.

## ADVISED TEMPERATURES & RH

OPTIMUM

NIGHT	DAY
58 °F	65-68 °F
14 °C	18-20 °C

Recommended RH: +/- 60%

Temperature is important

# POTCALLA GROWING AGENDA & RECOMMENDATIONS

GROWING WEEK 09  
EVENT:

WEEK 09 / 09



## ADDITIONAL WATER MANAGEMENT INFO

### ***WE STRONGLY ADVISE THE FOLLOWING:***

**REGULARLY** check the moist content in the pot! Turn the pot and pull off and check the roots and water content/humidity of substrate.



- When roots are strong and healthy white, the water management is good
- When roots are “transparent” and eventually brown, too much water has been applied!
- In case of transparent roots, contact your supplier.

## MAIN FLUSH OF FLOWERS APPEAR

- ✓ Use Kristalon Orange 6-12-36 10gr/m<sup>2</sup>
- ✓ EC: 2,5
- ✓ First plants are finished and ready to ship
- ✓ Place ready to ship plants in a cool area but not below 41 °F or 5 °C !
- ✓ Make sure the substrate is moist before sleeving and shipment
- ✓ Water the plant 1 day before sleeving!

## ADVISED TEMPERATURES & RH

OPTIMUM

NIGHT	DAY
-------	-----

58 °F	65-68 °F
-------	----------

14 °C	18-20 °C
-------	----------

Recommended RH: +/- 60%

Temperature is important