Plant the Planet

Products & Solutions

for forest nurseries

Insert Frame 96/ Insert Frame 128

AirCell65/ SolidCell75/ XLCell85 specifications

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Insert Frame 96

TECHNICAL DATA

- Outside dimensions (bottom): 517mm x 350mm x 110mm
- Outside dimensions (top): 496mm x 331mm x 110mm
- Capacity: holds 96 inserts
- Weight: 695gr +/- 2%
- Material: high grade PolyPropylene with additives
- Wall thickness: approx 2.5mm
- UV resistant: Yes
- Centre to Centre dimension of the inserts in the tray: 40.9mm x 40.9mm (accurate for precision operations in production line e.g. filling, dibbling and sowing)
- Ventilation area in top of tray (between inserts and tray) is applicable specifically for the Aircell:
  - **AirCell 65** 21,1% or 38304mm² ventilation area in total.
  - **SolidCell75** 15,8% or 28608mm² ventilation area in total.
  - **SolidCell75 closed corner** 7,796% or 14016mm² ventilation area in total.

(sufficient ventilation increases air flow through canopy of plants which reduces risk of fungal diseases).

- Stacking height 48mm

Insert Frame 128

TECHNICAL DATA

- Outside dimensions (bottom): 676mm x 350mm x 108mm
- Outside dimensions (top): 659mm x 330mm x 108mm
- Capacity: holds 128 inserts
- Weight: 760gr +/- 2%
- Material: high grade PolyPropylene with additives
- Wall thickness: approx 2mm
- UV resistant: Yes
- Centre to Centre dimension of the inserts in the tray: 41,1mm x 41mm (accurate for precision operations in production line e.g. filling, dibbling and sowing)
- Ventilation area in top of tray (between inserts and tray) is applicable specifically for the Aircell:
  - **AirCell 65** 21,6% or 51072mm² ventilation area in total.
  - **SolidCell75** 16,1% or 38144mm² ventilation area in total.
  - **SolidCell75 closed corner** 7,8% or 18688mm² ventilation area in total.

(sufficient ventilation increases air flow through canopy of plants which reduces risk of fungal diseases).

- Stacking height 48mm

SolidCell75

TECHNICAL DATA

- Capacity: 75cc volume
- Dimensions (LxWxH):
  - 38mmx38mmx100mm (top)
  - 25mmx25mmx100mm (bottom)
- Weight: 8gr +/- 2%
- Material: high grade PolyPropylene with additives
- Wall thickness: approx 0.9mm
- UV resistant: Yes
- Drainage hole of insert: 298mm2 (146mm² closed corner) open drainage area per cell (large drainage hole required for proper drainage of excess/free water to avoid anaerobic conditions in rootplug and reduction in growth and development of root system. Too much plastic in bottom of tube blocks free drainage of water)
- Root guiding ribs:
  - 2 ribs per sidewall
  - 8 ribs in total
  - 1mm wide x 1mm deep
  - Starting 4mm from top of insert
  - Ribs required to avoid spiralling of root system
- Water collecting rim: a water collecting rim along the top of the insert ensure efficient use of water in the nursery by collecting and redirecting water into the rootplug.
- Supporting stubs: reinforced for additional strength (radius under stub).

AirCell 65

TECHNICAL DATA

- Capacity: 65cc volume
- Dimensions (LxWxH):
  - 38mmx38mmx100mm (top)
  - 23mmx23mmx100mm (bottom)
- Weight: 10gr +/- 2%
- Material: high grade PolyPropylene with additives
- Wall thickness: approx 1.0mm
- UV resistant: Yes
- Drainage hole of insert: 399mm² open drainage area per cell (large drainage hole required for proper drainage of excess/free water to avoid anaerobic conditions in rootplug and reduction in growth and development of root system. Too much plastic in bottom of tube blocks free drainage of water)
- Active root guiding:
  - Sidewalls are ploughed to ensure active root guiding of ribs towards sideslits and eliminating spiralling of root system
- Sideslits:
  - 8 sideslits, 2 per side
  - 48mm long x 2mm wide
- Supporting stubs: reinforced for additional strength (radius under stub).

XLCell 85

TECHNICAL DATA

- Capacity: 85cc volume
- Dimensions:
- Top: 38mmx38mm
- Bottom: 29mmx29mm
- Length: 105mm
- Weight: 8,7gr +/- 2%
- Material: industrial virgin grade Polypropylene with additives
- Wall thickness: approx 1.0mm

UV resistant: Yes

Top surface area: 14.44cm2

Bottom drainage hole: 386.4mm2

Large drainage hole required for proper drainage of excess/free water to avoid anaerobic conditions in rootplug and reduction in growth and development of root system.

Active root guiding:

- Sidewalls are recessed to ensure active root guiding eliminating spiralling of root system

Water collection rim:

- Supporting rim around top of insert for support in tray and prevent water loss by collecting and diverting water back into cell.

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