Farm

Substrates for the inner-city
farmed garden

Crops in the city

Strawberries from the roof terrace or lettuce from the backyard. Growing food locally, exactly where its needed – that's the promise of urban farming. In the morning it might still be in the earth, but maybe in the afternoon it will already be on the table?

Vulkafarm® Plant substrates make it possible to produce healthy food in the city that will still comply with the strict rules of the Fertilisers Ordinance, the Soil Protection Ordinance and the Drinking Water Ordinance.

Because of their lava, pumice, peat and organic aggregate composition, substrates also prevent waterlogging and retain large quantities of water for the growing plants. Rapid rooting and strong growth are the result.

Product overview

Vulkafarm mineral

Mineral sub-substrate for farmed garden areas.

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Vulkafarm organic

Mineral-organic universal substrate for farmed garden areas.

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Vulkafarm plus

Mineral-organic universal substrate with an enriched organic content.

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Vulkafarm mineral

Mineral sub-substrate for farmed garden areas.

Details:

- Lava and pumice as base components
- No layer thickness restrictions
- Very well suited for permanent plantings
- Vulkafarm mineral is not fertilized, but can on request be mixed with fertilizer
- Deliverable in sacks, big bags, bulk materials or from a silo truck

Composition:

Natural product (igneous stone mixture) consisting of augite, olivine, magnetite, limonite and biotite

Application areas:

- Roof greening
- Tubs
- High beds
- Balcony boxes
- urban farming
- Soil replacement in the event of poor soil conditions
- Mixing component with poor soil conditions

Additional information:

- Certificates
- Product data sheets

This additional material is available for download at:

www.vulkatec.de

Grain size (ø in mm)	**0–12**
Particle size distribution (percentage of total mass in %)	
Blowable components	≤10
Fine/medium gravel	30–60
Volume weight (t/m^3)	
Delivery condition DIN EN 1097-3	0.95–1.00
At max. water capacity, compacted	1.40–1.60
Water/air balance, compacted	
Maximum water capacity	20–30 vol. %
Water permeability mod. K_f	0.60–150 mm/min
pH value	6.8–7.5
Salinity	0.1–1.5 g/l

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Vulkafarm® organic

Mineral-organic universal substrate for farmed garden areas.

Details:

- Basic components: lava, pumice, sand and compost, on request also with peat
- Suitable for permanent plantings
- Vulkafarm 0–4 can be lain up to 45 cm thick Vulkafarm 0–8 can be lain up to 35 cm thick
  For greater laying thicknesses, Vulkafarm mineral can also be used as a mineral sub-substrate
- Vulkafarm 0–4 and 0–6/8 are not fertilized, but can on request be mixed with fertilizer
- Deliverable in sacks, big bags or as bulk
- Vulkafarm 0–4 can also be delivered from silo trucks

Composition:

Natural product; Eruptive stone mixture, consisting of augite, olivine, magnetite, limonite, biotite, clays of various types, enriched with compost

Application areas:

- Roof greening
- Tubs
- High beds
- Balcony boxes
- Soil replacement in the event of poor soil conditions
- urban farming

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Grain size (ø in mm)	**0–4**	**0–6/8**
Particle size distribution (percentage of total mass in %)		
Blowable components	10–20	10–20
Fine/medium gravel	20–40	20–40
Volume weight (t/m^3)		
Delivery condition DIN EN 1097-3	0.80–0.90	1.00–1.10
At max. water capacity, compacted	1.25–1.40	1.60–1.85
Water/air balance, compacted		
Maximum water capacity	45–55 vol. %	40–50 vol. %
Water permeability mod. K_f	0.3–20 mm/min	0.6–20 mm/min
pH value	6.5–7.2	6.8–7.5
Salinity	0.5–1.0 g/l	0.5–1.0 g/l

Composition:

Natural product; Eruptive stone mixture, consisting of augite, olivine, magnetite, limonite, biotite, clays of various types, enriched with compost and/or peat

Vulkafarm® Plus

Mineral-organic universal substrate for kitchen garden areas with enriched organic content.

Details:

- Lava, pumice, sand and compost as base components. On request also with peat
- Can be lain up to 35 cm thick. In the case of larger laying thicknesses, Vulkafarm mineral can be used as a sub-substrate
- Not suitable for permanent plantings
- Compared to Vulkafarm 0–8 it has a higher water retention capacity and an improved nutrient buffering = reduced maintenance requirements + faster growth for many crops
- Vulkafarm 0–8 Plus is not fertilized, but can upon request be mixed with fertilizer
- Deliverable in sacks, big bags or as bulk

Application areas:

- Roof greening
- Tubs
- High beds
- Balcony boxes
- Soil replacement in the event of poor soil conditions

Additional information:

- Certificates
- Product data sheets

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Grain size (ø in mm)	**0–6/8**
Particle size distribution (percentage of total mass in %)	
Blowable components	10–20
Fine/medium gravel	20–40
Volume weight (t/m^3)	
Delivery condition DIN EN 1097-3	0.95–1.10
At max. water capacity, compacted	1.60–1.85
Runoff curve number C	
Water/air balance, compacted	
Maximum water capacity	45–60 vol. %
Water permeability mod. K_f	0.3-15 mm/min
pH value	6.0–7.5
Salinity	0.5–1.0 g/l

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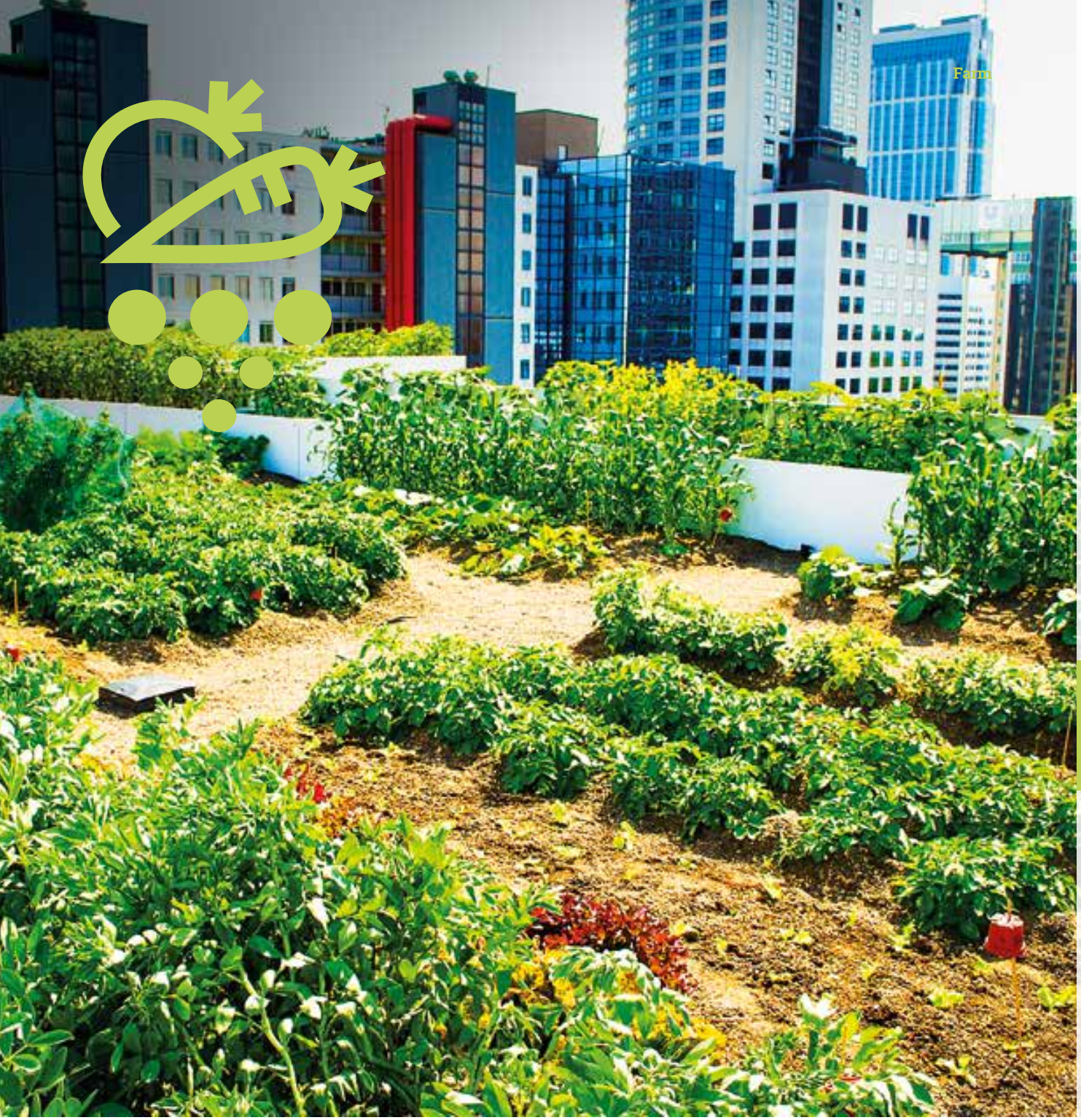

Source: Optigreen International AG

Experimental fruit and vegetable farm on a roof.