

Lawn

Substrates for grass areas



Play areas and beauty spots right on your doorstep



Green areas not only beautify the cityscape and improve the micro-climate, but they also contribute to sound insulation and balancing of closed off spaces.

Urban grassed areas are nevertheless heavily used: Dryness in summer, road salt in winter and the trampling of a thousand feet everyday can spell the end even for robust grass varieties. Lawn substrates adapted to local conditions help offset these factors. For example, gravel lawn substrates for a tread-resistant lawn on fairgrounds or driveways.



Green habitats

landscape.

under wet conditions.

Lawn greening

The trend towards creating green oases of well-being on roofs and around buildings is growing. A roof greened with grass is not only attractive, but it also provides usable living space, increases the sound insulation, retains water on the roof, improves the microclimate, and adds to a more beautiful city and

In addition, the use of lawn substrates also offers advantages when greening buildings. Especially in cohesive, waterlogging-prone soils, substrates promote the deep rooting of grasses and increase the tread resistance of lawns especially

Would you like to exploit the many benefits of substrates, advise your customers professionally, and convince them with crafted solutions? Then why not profit from our 30 years of experience of greening on and around buildings, so that your customers can permanently enjoy the look and functionality of their lawns.





















Building

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Product overview



Lavadrän®

Blowable mineral drainage.

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Vulkaterra® Lawn DIN 18035-4

Meets the requirements of DIN 18035-4

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Vulkaterra® Lawn 0–4 blowable

Lawn substrate for roofs and soils.

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Vulkaterra® Lawn 0-6

Lawn substrate for roofs and soils.

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Vulkaterra® Lawn type S 0-16

Gravel lawn substrate Usage category N1-N3.

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Vulkaterra® Lawn type S 0−32

Gravel lawn substrate Utilisation category N1-N3.

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Vulkaterra® Lawn type S/FW

Gravel lawn substrate for areas in which the fire service can install and move equipment Usage category N / FW.

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Bedding substrate

Utilization categories N2-N FW

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RegioMix[®] Lawn

Lawn substrate for roofs and soils.

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Track greening

Substrates for track greening.

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Procedure:

Drainage course, slab substrate, mulch layer

Composition:

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

Lavadrän®





Lavadrän is suitable as a blowable mineral drainage course or as a mulch layer. The rough surface ensures a good interlocking of the grains and in this way a secure positioning.

Details:

- High pressure stability; loadable up to 95 MPa in the EV2 plate load test
- Up to 67% pore volume; therefore optimally drained
- Up to 15% water storage
- External monitoring of Lavadrän 8-16 as part of the RAL quality assurance
- · Available as bulk material, by silo truck or packaged in 1.0 or 1.5 m³ big bags and as 25 l sacks

Application areas:

- · Drainage layer in grassland construction, especially in green roofs
- Drainable substructure for slabs in foot traffic areas
- · Effectively draining and resilient filler for building spaces
- · Soil additive, substrate starting material
- · Air and water filtration
- · Mineral mulch





Additional information:

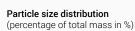
- · Certificates
- Product data sheets

This additional material is available for download at:

www.vulkatec.de

Grain size (ø in mm)





Blowable components

< 10

Volume weight

Delivery condition DIN EN 1097-3 0.95-1.10 At max. water capacity, compacted 1.20 - 1.35

Water/air balance, compacted

Maximum water capacity Water permeability mod. K,

250-500 mm/min

8-15 vol.%

pH value Salinity

6.8-7.5 0.1-0.5 g/l









Procedure:

Lawn base course DIN EN 18035-4

Composition:

Natural product (igneous stone mixture) consisting of augite, olivine, magnetite, limonite, biotite and clays of various types enriched with compost

Vulkaterra[®] Lawn DIN 18035-4

Open-pored, mineral-organic lawn substrate based on lava, pumice and organic matter. It is low-salt, non-segregating and meets the requirements of DIN 18035-4.

Details:

- On request with fertilizer additive and peat
- The substrate shows good nutrient buffering, and is germination and growth-promoting
- · Processable in the wet and in light frost

Application areas:

 Restoration and new laying of sporting field surfaces in accordance with DIN 18035

Additional information:

- Certificates
- Product data sheets

This additional material is available for download at:

www.vulkatec.de

Grain size (ø in mm)	0-4
Particle size distribution (percentage of total mass in %)	
Blowable components	8-20
Fine / medium gravel	5-20
Volume weight (t/m³) Delivery condition DIN EN 1097-3 At max. water capacity, compacted Runoff curve number C	1.10-1.30 1.65-1.95
Water/air balance, compacted	
Maximum water capacity	25-40 vol. %
Water permeability mod. $K_{\rm f}$	1-3 mm/min
pH value Salinity	6.8-7.5 30-100 mg/100g
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Procedure compliant with FLL:

Landscaping lawn substrate, roof / underground garage roof substrate

Composition:

Natural product; igneous stone mixture, consisting of augite, olivine, magnetite, limonite, biotite, enriched with xylitol

Additional information:

- Certificates
- · Product Data Sheets
- · Installation instructions

This additional material is available for download at:

www.vulkatec.de

Vulkaterra® Lawn 0–4 blowable

Mineral-organic turf substrate for roof and ground, low-salt, non-segregating, made from the basic components lava, pumice, expanded clay and xylitol. On request with fertilizer additive.

Details:

- Open-pored, with a high total pore volume, pressure-resistant, long-term stable
- Good nutrient buffering, pH-stable, germination and growth-promoting
- In the peat/xylitol variant it is guaranteed to be free of seeding or rooting weeds
- · Processable in the wet and in light frost
- Pneumatically transportable by silo truck over distances of up to 150 m
- Can also be used after a short time even after prolonged or heavy rainfall
- Preferably greened using turf grass and to be planned up to approx. 40 cm thickness with permanent additional irrigation

Application areas:

- Grass seeding for green areas, courtyards and roof areas
- Restoration and new laying of commercial and ornamental turf areas
- As a substitute for topsoil, for the planting of perennials and woody plants
- Permanent tub planting with shrubs and perennials

10-20

20-30

Grain size

(ø in mm)

Particle size distribution (percentage of total mass in %)

Blowable components
Fine / medium gravel

Volume weight

(t/m³)

Delivery condition DIN EN 1097-3 0.80-0.85
At max. water capacity, compacted 1.20-1.40

Water/air balance, compacted

Maximum water capacity 45-55 vol. % Water permeability mod. K, 0.3-20 mm/min

pH value 6.5–7.2 **Salinity** 0.5–1.0 g/l

























Landscaping lawn substrate, roof / underground garage roof substrate

Composition:

Natural product (igneous stone mixture, topsoil/ subsoil of different classes) consisting of augite, olivine, magnetite, limonite, biotite, clays of various types, enriched with compost

Vulkaterra® Lawn 0-6

Mineral-organic turf substrate for roof and ground, made from the basic components loess, lava, pumice, sand and compost. On request with fertilizer additive.

Details:

- Open-pored, with a high total pore volume, pressure-resistant, long-term stable
- Good nutrient buffering, pH-stable, germination and growth-promoting
- · Free of root-forming weeds
- · Processable in the wet and in light frost
- Can also be used after a short time even after prolonged or heavy rainfall
- Preferably greened with turf grass and to be planned up to approx. 40 cm thickness with permanent additional irrigation
- Available as bulk material, in a 1.0 or 1.5 m³ big bag, or as a 25 l bag

Application areas:

- Grass seeding for green areas, courtyards and roof areas
- Restoration and new laying of commercial and ornamental turf areas
- As a substitute for topsoil, for the planting of perennials and woody plants
- Permanent tub planting with shrubs and perennials

Additional information:

- Certificates
- · Product data sheets
- Installation instructions

This additional material is available for download at:

www.vulkatec.de

Grain size (ø in mm)	0-6
Particle size distribution (percentage of total mass in %)	
Blowable components	10-20
Fine / medium gravel	20-40
Volume weight (t/m³)	
Delivery condition DIN EN 1097-3	1.00-1.10
At max. water capacity, compacted	1.60-1.85
Water/air balance, compacted	
Maximum water capacity	40-50 vol. %
Water permeability mod. $K_{\rm f}$	0.6-20 mm/min
pH value	6.8-7.5
Salinity	0.5-1.5 g/l



Gravel grass substrate FLL design Utilisation category N1-N3

Composition:

Natural product (igneous stone mixture, topsoil/subsoil of different classes) consisting of augite, olivine, magnetite, limonite, biotite, clays of different types

Additional information:

- Certificates
- Product data sheets
- · Installation instructions

This additional material is available for download at:

www.vulkatec.de

Vulkaterra® Lawn type S 0–16

Mineral gravel grass substrate with a load bearing capacity of up to 95 MN/m 2 in the EV2 value of the load plate pressure test (observe the laying instructions).

Details:

- · Low-salt, non-segregating
- Basic components are loess, lava, pumice, sand, with peat and fertilizer on request
- The mixture has a porous structure, with a high total pore volume, and is pressure-resistant, stable over the long-term, and shear-proof
- The substrate has good nutrient buffering, is pH-stable, and is germination and growth promoting
- · Free of root-forming weeds
- · Processable in the wet and in light frost
- Produced in accordance with the stipulations of the FLL guideline and the Fertilizer Ordinance in its current version

Application areas:

- Single-layer and multi-layer gravel turf structures for construction methods in utilisation category N1-N3
- Refurbishment and new builds of fairgrounds, service roads, garage access roads,

paths for pedestrian traffic, parking spaces with low use, seating areas in parks, care and maintenance paths



Grain size

(ø in mm)

0-16

Particle size distribution

(percentage of total mass in %)

Blowable components 10-20 Fine / medium gravel 35-55

Volume weight

(t/m³)

Delivery condition DIN EN 1097-3, 1.05-1.15 loose

At max. water capacity, compacted 1.65-1.90

Water/air balance, compacted

Maximum water capacity 25-35 vol. % Water permeability mod. K, 0.3-3.0 mm/min

pH value 6.8–7.5 **Salinity** 5–80 mg/100g























Gravel grass substrate FLL design Utilisation category N1-N3

Composition:

Natural product (igneous rock mixture, topsoil/ subsoil of various classes) consisting of augite, olivine, magnetite, limonite, biotite, clays of various types

Vulkaterra® Lawn type S 0-32

Mineral gravel grass substrate with a load bearing capacity of up to 95 MN/m 2 in the EV2 value of the load plate pressure test (observe the laying instructions).

Details:

- · Low-salt, non-segregating composition
- High total pore volume, pressure-resistant, long-term stable, shear-proof
- The substrate shows good nutrient buffering, is pH-stable, and is germination and growth-promoting
- · Free of root-forming weeds
- · Suitable for processing in wet conditions and light frost
- Load-bearing capacity up to 95 MPa in the EV2 value of the plate load test (instructions provided in the installation manual must be observed)
- Produced in accordance with the stipulations of the FLL guideline and the Fertilizer Ordinance in its current version

Application areas:

- Single-layer and multi-layer gravel turf structures for construction methods in utilisation category N1-N3
- · Creation of road verges
- Refurbishment and new build of fairgrounds, service roads, garage access roads, paths for pedestrian traffic, parking and parking areas, seating areas in parks, care and maintenance paths

Additional information:

- Certificates
- · Product data sheets
- · Installation instructions

This additional material is available for download at:

www.vulkatec.de

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Grain size (ø in mm)	0-32
Particle size distribution (percentage of total mass in %)	
Blowable components	10-20
Proportions of components ≥ 4 mm	35-55
Volume weight (t/m³) Delivery condition DIN EN 1097-3, loose At max. water capacity, compacted Bunoff curve number C	1.05–1.20 1.65–1.90
Water/air balance, compacted	
Maximum water capacity Water permeability mod. K _f	25-35 vol. % 0.3-20 mm/min
pH value Salinity	6.8-7.5 5-80 mg/100g



Gravel lawn substrate FLL design Usage category N Fw

Composition:

Natural product (igneous stone mixture, topsoil/ subsoil of different classes) consisting of augite, olivine, magnetite, limonite, biotite and clays of different types

Vulkaterra® Lawn type S/FW

Gravel lawn substrate for areas in which the fire service can install and move equipment.

Details:

- · Basic components are loess, lava, pumice and sand, with added fertilizer on request
- The mixture has a porous structure, with a high total pore volume, and is pressure-resistant, stable over the long-term, and shear-proof
- · The substrate shows good nutrient buffering, is pH-stable, and is germination and growth promoting
- · Free of root-forming weeds
- · Processable in the wet and in light frost
- · Produced in accordance with the stipulations of the FLL guideline and the Fertilizer Ordinance in its current version

Application areas:

- · Multi-layer gravel turf structures in utilisation category N Fw
- · Refurbishment and new build of fire department access roads and movement areas

· Creation of road verges and farm tracks













Additional information:

- Certificates
- Product data sheets
- Installation instructions

This additional material is available for download at:

www.vulkatec.de

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n mn	2)	

Particle size distribution

(percentage of total mass in %)

Blowable components

Proportions of components ≥ 4 mm

Volume weight

 (t/m^3)

Gr

Delivery condition DIN EN 1097-3,

At max. water capacity, compacted

Runoff curve number C

Water/air balance, compacted

Maximum water capacity Water permeability mod. K,

pH value

Salinity













1.65 - 1.95

25-30 vol. % 0.3-3.0 mm/min

6.8-7.5 5-80 mg/100 g









Bedding substrate in accordance with FLL guideline for green space reinforcement

Composition:

Natural product (igneous rock mixture, topsoil/ subsoil of various classes) consisting of augite, olivine, magnetite, limonite, biotite, clays of various types



Bedding substrate with lawn honeycomb as an example

Bedding substrate Utilisation categories N2-N FW

Mineral-organic substrate, low in salt, non-segregating Made of the basic components lava, pumice, basalt, sand and compost. For intensive greening, optimised for use as vegetation-efficient bedding for lawn honeycombs, lawn paving, lawn joint paving and lawn bricks.

Details:

- Open-pored, with a high total pore volume, pressure-resistant, long-term stable
- Good nutrient buffering, pH-stable, germination and growth-promoting
- · Free of root-forming weeds
- · Processable in the wet and in light frost
- Can also be used after a short time even after prolonged or heavy rainfall
- Suitable for driving on due to the use of basalt as a supporting grain
- Available as bulk material, in a 1.0 or 1.5 m³ big bag, or as a 25 l bag

Application areas:

 As bedding for turf honeycombs, lawn paving, lawn join paving and grass paving in traffic areas As a resilient germination substrate when laying gravel turf

Grain size (ø in mm)	0-6
Particle size distribution (percentage of total mass in %)	
Blowable components	5-15
Fine / medium gravel	25-40
Volume weight (t/m³) Delivery condition DIN EN 1097-3	1.1-1.3
At max. water capacity, compacted	1.7-1.9
Water/air balance, compacted Maximum water capacity	35-40 vol. %
Water permeability mod. K,	0.6-40 mm/min
pH value	6.8-7.5
Salinity	0.5-1.5 g/l

Gravel terraces

Construction method for utilisation categories N2, N3 and N Fw - Substrate / substructure

Construction method with base layers		N2		N3		N Fw	
valalizablehouse	(1) Vegetation	Load capacity in MPa	Installation thickness in cm	Load capacity in MPa	Installation thickness in cm	Load capacity in MPa	Installation thickness in cm
MAK NEW AND NOW	Vegetation base layer 2 (gravel grass substrate)	>80	20	>80	20	>100	20
	Gravel orgravel base layer	>100	15	>120	15-25	>120	15-25
	4 Frost protection layer	>80	10	>100	30-40	>100	30-40
	Building ground according to BStO 0.3	>45		>45		>45	

Paving with lawn joins.

Construction method for utilisation categories N2, N3, and N Fw - subsoil / substructure

Greenable paving Paving with grass joints		N2		N3		N Fw	
V W W	1. Vegetation	Load capacity in MPa	Installation thickness in cm	Load capacity in MPa	Installation thickness in cm	Load capacity in MPa	Installation thickness in cm
	2a Filling substrate 2b Bedding*	none Require- ments	8 4	none Require- ments	12 4	none Require- ments	12 4
	Gravel or gravel base layer	>100	15	>120	15-25	>120	15-25
	4 Frost protection layer	>80	15	>100	20-35	>100	20-35
	Building ground according to BStO 0.3	>45		>45		>45	

Grass pavers.

Construction method for utilisation categories N2, N3, and N Fw - subsoil / substructure

Greenable surface with lawn paving		N2		N3		N Fw	
WARRE	(1). Vegetation	Load capacity in MPa	Installation thickness in cm	Load capacity in MPa	Installation thickness in cm	Load capacity in MPa	Installation thickness in cm
THE REPORT OF	2a Filling substrate 2b Bedding*	none Require- ments	10 4	none Require- ments	12 4	none Require- ments	12 4
	Gravel or gravel base layer	>100	15	>120	15-25	>120	15-25
	4 Frost protection layer	>80	15	>100	25-30	>100	25-30
	5 Building ground according to BSt0 0.3	>45		>45		>45	

^{*} The bedding should be matched to the filling and covering substrate or ideally be identical in order to promote grass growth.























RegioMix® Lawn

from the region, for the region

Made of regional raw materials

Regionality is on everyone's lips today. We are increasingly buying fruit, vegetables and meat at the market or from the farmer around the corner because we feel responsible for our ecological footprint. We have also thought about the regionalisation of our substrates to keep their supply routes short and reduce their environmental impact.

After extensive researching of raw materials and analysis of environmental impacts in the laboratory, we have now developed the new Arbortree® substrate. This combines ecology, greening technology and economics into a single package.

RegioMix® Lawn: Intensive greening of building ceilings with grassed areas,

perennials and shrubs.

Planting lawns outside and on building ceilings.

Also suitable as a substitute for stony, loamy, clayish or compacted soils.

Available at the following locations, among others:

Location	Post code	State / Province
Volkstorf	21397	Lower Saxony
Sande	26452	Lower Saxony
Lünen	44532, 44534, 44536	North Rhine-Westphalia
Aken / Elbe	06385	Saxony-Anhalt

Current status at www.vulkatec.de



Procedure compliant with FLL:

Landscaping lawn substrate, roof / underground garage roof substrate

Composition:

Regionally sourced raw materials

RegioMix® Lawn

Locations Aken, Volkstorf, Lünen and Sande

Mineral-organic lawn substrate, low-salt, non-segregating and made from regional raw materials.

- The mixture has a porous structure, with a high total pore volume, and is pressure-resistant and stable over the long-term
- The substrate has good nutrient buffering, is pH-stable, and is germination and growth promoting
- · Free of root-forming weeds
- · Good processability
- · Preferably greened with turf grass and to be planned up to approx. 40 cm thickness with permanent additional irrigation
- · Produced in accordance with the stipulations of the FLL guideline and the Fertilizer Ordinance in its current version

Application areas:

- spaces, courtyards and roof areas
- · Restoration of commercial and ornamental turf areas
- · Planting building ceilings with perennials and small shrubs
- for the planting of perennials and woody plants

• Grass seeding for new green

- · As a substitute for topsoil,
 - · Permanent tub planting with shrubs and perennials

Additional information:

- · Certificates
- **Product Data Sheets**
- · Installation instructions

This additional material is available for download at:

www.vulkatec.de

RegioMix® Lawn

<- 20

<- 18

Particle size distribution (percentage of total mass in %)

Blowable components

Fine / medium gravel

Volume weight

 (t/m^3)

at max. water capacity

Please request the value from the competent sales employee at the

Water/air balance

Air capacity at max. water capacity

Air capacity at pF 1.8 Water permeability mod. K,

pH value

Salt content (water extract)

specific location

35-65 vol. % Max. Water capacity

> 10-25 vol. % 20-35 vol. %

> > 0.6-70 mm/min

6.5-7.6 <- 1.5



















Building



Landscaping lawns

Laying instructions

Substrates:

Vulkaterra® Lawn 0–4 blowable

Vulkaterra® Lawn 0-6 Regiomix lawn

Laying thickness:

Building greening:

from 15 cm; requires an irrigation system and turf laying. Regular maintenance in the form of irrigation, fertilisation and cutting must be ensured. Desirable > 40 cm to minimise the care required. An irrigation system may not be necessary, depending on the annual precipitation.

Soil bound:

10-15 cm as a layer on existing unsuitable ground.

Laying

The laying is carried out with a compaction of 85-87% DPr. by rolling with a lawn roller. Higher degrees of compaction only make sense with gravel lawn areas. In order to ensure a transfer of water from the substrate into the soil and vice versa, it is important to interlock the two layers. For this purpose, the existing soil surface is roughened before applying the substrate.

Any compaction that occurs while applying the substrate must be removed afterwards.

2.
Greening

The greening should ideally be carried out using turf. When applying seeds, it is important to ensure an optimum water supply during the germination phase, as it is during this phase when it is decided whether all grass species in the mix will gain a foothold:

Lollium: up to 14 days

Festuca and Agrostis: up to 24 days

Poa: up to 28 days

Any sowing failures are therefore not due to any defect in the substrate.

3. Fertilization

An initial fertilization is necessary during the course of sowing, but at the latest after the first cut, using an NPK fertilizer (N stressed, 50-80 g / m2). Further fertilizer applications during the growing phase are to be carried out at intervals of 4 to 8 weeks. A key factor for the spacing is the development of the lawn, which is influenced by the amount of rain and the temperature.

Fertilization in spring: 50-80 g/m² Maintenance fertilization: 30-50^{g/m2}

We recommend using a slow-release fertilizer with an action term of 6–9 months to minimise nitrogen leaching and to promote even turf development.

4 Mowing

Regular mowing is essential. The two-thirds-to-one-third rule should be applied here. This means that a max. 30-35% of the growth can be removed when cutting. And for a cutting height of 3 cm there can be a maximum growth of 4.5 cm until the next cut. At a cutting height of 4 cm, this rule results in a maximum height of 6 cm.



Landscaping lawns

Laying instructions



Vulkaterra® Lawn type S 0-16 Vulkaterra® Lawn type S 0-32 Vulkaterra® Lawn type S/FW

Guidelines:

Utilisation category N1-3 and FW from the FLL guideline for green pavements

Laying thickness:

Structural greening:

from 20 cm on load-bearing drainage with additional irrigation and fertilization.

Desirable> 30 cm to minimise the care required.

Ground-bound:

depending on the utilisation category 15-25 cm (N1: 15 cm / N2, N3, N FW: 20 cm).

Preparation / installation

In order to ensure a transfer of water from the substrate into the soil or the load bearing layer and vice versa, it is important to interlock the two layers. For this purpose, the surface of the soil or the load bearing layer is roughened before applying the substrate. Apply the substrate and compact it with a suitable device according to its usage category.

Utilisation category N1: \geq 30 MPa in EV2 of the load plate compression test Utilisation category N2: \geq 60 MPa in EV2 of the load plate compression test Utilisation category N3: \geq 80 MPa in EV2 of the load plate compression test Utilisation category Fw: \geq 100 MPa in EV2 of the load plate compression test

2. Greening

Seeding is preferably carried out in superficially loosened gravel grass substrate. The use of a germination substrate ($^{\text{Vulkaterra}}$ 8 Turf 0-4) with a thickness of 1–3 cm is also conceivable. Can only be used for usage categories N1-N3. After sowing, ensure optimised water supply during the germination phase, as this phase determines whether all grass species in the mixture can take root:

Lollium: up to 14 days

Festuca and Agrostis: up to 24 days

Poa: up to 28 days

Any sowing failures are therefore not due to any defect in the substrate.

3. Fertilization

An initial fertilization is necessary during the course of sowing, but at the latest after the first cut, using an NPK fertilizer (N stressed, 50-80 g / m2). Additional fertiliser should be applied should at intervals of 4-8 weeks during the vegetation phase. A key factor for the spacing is the development of the lawn, which is influenced by the amount of rain and the temperature. The use of a slow-release fertilizer with an action term of 6-9 months is recommended to minimise nitrogen leaching and to even out turf development.



Regular mowing is essential. The two-thirds to one-third rule should be applied here. This means that a max. 30-35% of the growth can be removed when cutting. And for a cutting height of 4 cm there can be a maximum growth of 6.0 cm until the next cut.

















Building



Track greening

Green oases along the tracks.

Cities are challenged by the need to take action and adapt to the effects of climate change. Heat and heavy rain put a strain on cities, which contend with higher temperatures (heat island effect) compared to their surrounding areas.

Green buildings and trees have become integral to modern urban planning according to the principles of sustainability. Track greening is another area that can reduce the heat island effect. Even simple greening with sedum — in the low-lying version (upper edge of the substrate no higher than the lower edge of sleeper foot) — creates a more attractive space, reduces noise, prevents track heating and binds dust and pollutants. At the same time, track greening increases the ecological value of the traffic space. With smart planning, sedum track greening produces an excellent pasture for bees from June to October.

Build an elevated vegetation system (top edge of the substrate 1-1.5 cm below the top edge of the track) if you want to create a green space with a uniform look. Grass or grass-herb seed mixtures are available for planting. Various types of turf are available as an alternative.

With the right planning and choice of substrate, an elevated vegetation system can also function as an emergency route for fire engines and ambulances.

Vulkatec posses long-standing experience and has turned numerous kilometres of track space into green areas.



Composition:

Natural product (igneous rock mixture, topsoil/subsoil of various classes) consisting of augite, olivine, magnetite, limonite, biotite, clays of various types. Vulkaterra turf 0-4 and 0-6 enriched with RAL quality-assured compost.



Planting track greening with grass

Also available as RegioMix turf substrate at various production sites. Contact the competent sales representative for more detailed information.

Vulkaterra® Turf substrates for track greening*

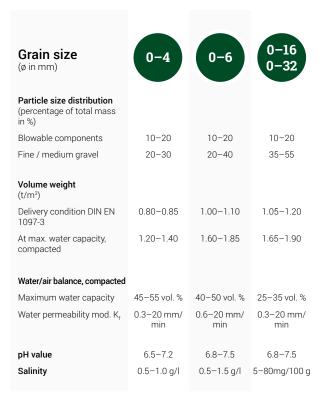
Substrates with varying proportions of sandy loess, lava, pumice, sand and expanded clay (0-4 and 0-6 + organics) for the installation of grass tracks and tracks with sedum planting. Also suitable as an emergency driveway when using the Vulkaterra turf type S variants.

Details:

- Open-pored, with a high total pore volume, pressure-resistant, long-term stable
- Good nutrient buffering, pH-stable, germination and growth-promoting
- · Free of root-forming weeds
- · Processable in the wet and in light frost
- Can also be used after a short time even after prolonged or heavy rainfall
- Emergency driveways with Vulkaterra turf type S (70–90 MPa in the EV2 value of the plate load test. The information in the installation instructions must be observed)
- In the Vulkaterra turf variant 0-4 blowable
- · Available as bulk material, in silo trucks or as big bags

Application areas:

- Establishment of track greening with grass and/ or sedum using Vulkaterra Turf 0-6 (bulk material) or Vulkaterra Turf 0-4 (silo transport)
- Production of track greening with ballast turf using
 Vulkaterra turf type S 0- 16 and type S 0-32 that can be used as emergency driveways















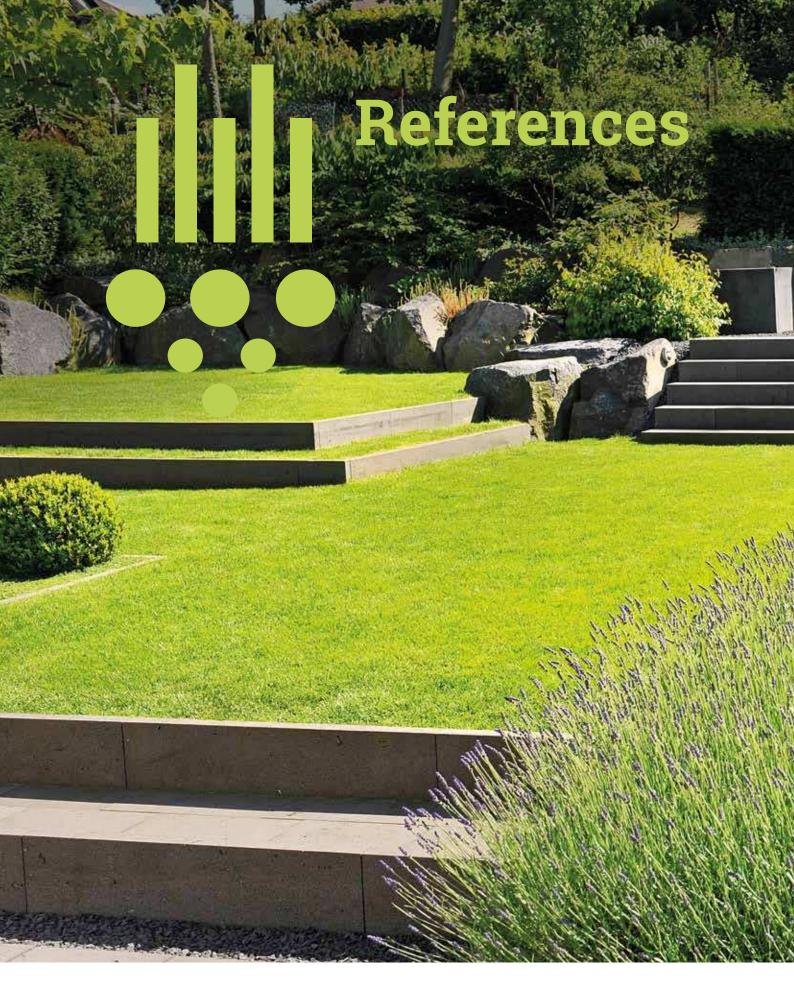








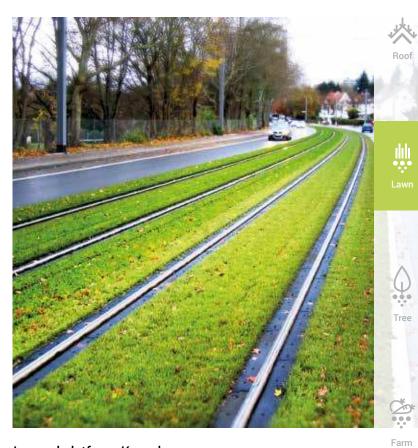




Private garden, Bornheim

lawn as a constituent of a modern garden architecture





Lawned platform, KasselRugged gravel grass areas between the tracks of the Kassel tram





Kameha Grand Hotel, Bonn

Tree plantings and several large lawns directly on the Rhine promenade



