

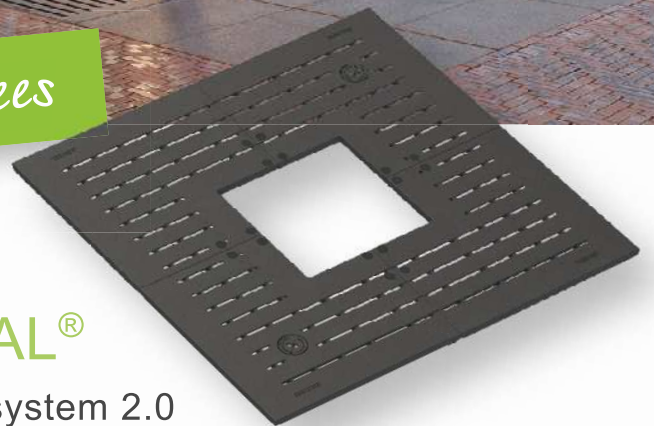


Protecting the trees



LATERAL[®]

Tree protection system 2.0





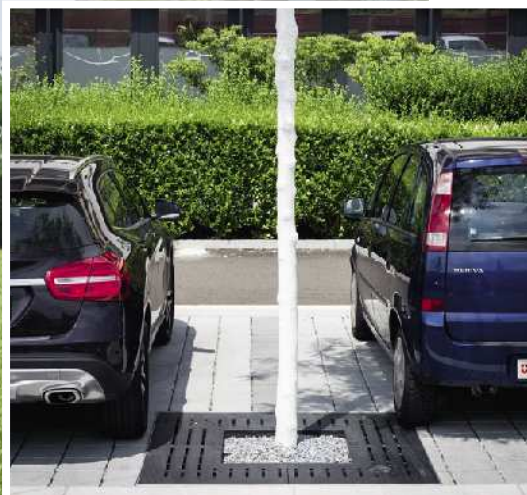
Life in a verdant oasis





The future is green

Groves of trees and shady boulevards are the oases of cities and villages, ensuring a high quality of life for everyone. MeierGuss tree protection systems help to conserve them and contribute to a future worth living.



LATERAL[®] 2.0

Cast-iron tree protection



The cast-iron MeierGuss tree protection system LATERAL[®] 2.0 offers many advantages. Due to its ability to “grow with the tree” and its great functionality and robustness, it is practically unbeatable from an economic and ecological viewpoint. As a visually appealing product LATERAL[®] 2.0 forms a symbiosis with the trees, thereby creating a welcoming space.

As a market leader with years of experience, MeierGuss has launched LATERAL[®] 2.0 to present a new way forward.



LATERAL[®] 2.0

- self-supporting, load-bearing capacity up to 50 kN without substructure
- inner opening: 680 x 680 mm expandable to 890 x 890 mm or 1,000 x 1,000 mm
- low follow-up costs, grows with the tree, longer service life
- more space for the tree



... tree protection in the right measurement

LATERAL[®] 2.0 is the result of adding additional features to an established system. A set of steel border frames, armoured concrete foundations and highly robust tree grating elements made of cast iron are the key to the success of this highly effective tree protection system. The self-supporting cast grating structure, which does not need any restrictive steel support frames, can bear loads of up to 50 kN. The system's low height, improved pavement connection, optimised user friendliness and ease of maintenance and, above all, the trunk opening, which can be expanded by 32 cm and therefore "grows with" the tree, increase cost-effectiveness and sustainability.

With LATERAL[®] 2.0, delayed planting after successful assembly of the components is no longer a problem.



Growing together...

With its self-supporting design, LATERAL® 2.0 helps to protect and support the tree's natural growth. It improves water absorption, optimises the gas exchange and prevents rot at the foot of the trunk caused by stagnant moisture. Thanks to these growth-promoting conditions, the tree can develop as nature intended – growing together with its protector.



Tree planted today
(Standard trunk opening 680 x 680 mm)



20 years later
(Expanded trunk opening 1,000 x 1,000 mm)



LATERAL[®] 2.0 – Sizes | Technology | Accessories

① **Cast tree grating** – self-supporting due to statically load-bearing segment connections incl. care openings with secured lid.

② **Steel border frame**

This frame only serves as an all-round boundary from the surrounding pavement.

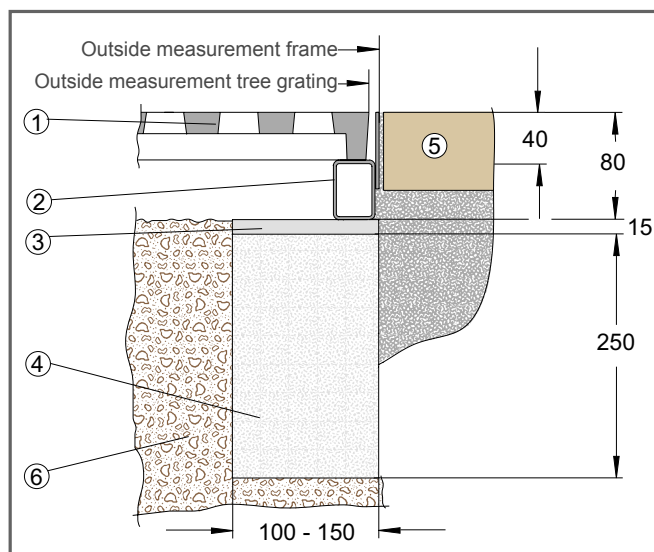
If the foundation is laid accordingly, the tree grating can be installed without a frame.

③ **Levelling layer** (optional) – for height compensation, made of mortar that is resistant to compressive stress.

④ **Armoured concrete foundation** – Factory pre-cast concrete section, 1 to 4 parts, width 150 mm optional on-site solution e.g. with low curbs 10/30 or as formed foundation on site etc.

⑤ **Surrounding surface** – paving stones, asphalt or similar

⑥ **Planting / tree substrate** – according to FLL (Research association for landscape development and construction) or ZTV-Vectra-MÜ. The compressible or non-compressible and simultaneously open-pored road construction substrates, depending on the traffic area, ensure the nutrient supply to the roots and form an essential part of a tree planting system.



System dimensions		Cast tree grating		Steel border frame Constr. height = 80 mm		Concrete Foundation Constr. height = 250 mm	
Outer (mm)	Inner (mm)	Art. No.	Weight (kg)	Art. No.	Weight (kg)	Art. No.	Weight (kg)
1,250 x 1,250	550 x 550	LAQ12555*	151	ARQ1250	29	BFQ12525	380
1,500 x 1,500	680 x 680	LAQ15070*	220	ARQ1500	34	BFQ15025	504
1,800 x 1,800	680 x 680 (890 x 890)	LAQ18070	339	ARQ1800	40	BFQ18025	616
2,000 x 2,000	680 x 680 (1,000 x 1,000)	LAQ20070	443	ARQ2000	44	BFQ20025	692
2,500 x 2,500	1,000 x 1,000 (1,400 x 1,400)	LAQ250100	711	ARQ2500	55	BFQ25025	800

* Cast tree grating not expandable

All listed standard sizes are available on short notice. Foundation delivery times on request.

Steel tree guard "LIMES" Construction height 1,800 mm Weight approx. 35 kg Square base foot for tree opening □ 680 mm incl. fastening set for assembly with adjustable height and incline		
hot-dip galvanised*	galvanised and powder coating RAL 9005/9011	galvanised and powder coating according to customer request*
Art. No. BSGLIMQ700V	Art. No. BSGLIMQ700R	Art. No. BSGLIMQ700S

* Delivery time on request

In addition to the standard type "LIMES", other trunk protection elements are available on request, including customised products. We would be glad to send you further information.



You can find our current tender specifications at:
www.meierguss.de





Protecting the trees



Coating

Standard (short-term delivery):

- 2 component EP zinc primer + hydro dipping varnish similar to RAL 9005/9011
- Uncoated cast iron (natural), wire shot blasted surface

Additional high-quality coats (on request):

- CED – cathodic electrodeposition coating (black RAL 9011, slightly glossy)
- CED + powder coating in RAL or DB colours according to customer request

Load-bearing capacity

All tree gratings from the standard 2.0 range are self-supporting and designed for wheel loads of up to 50 kN (unbraked wheel loads in low-speed zones). Thanks to optimised structures and sturdy segment connections, no additional steel substructures are required. This keeps the tree pit free of obstructing metal sections and makes it possible to work in the tree pit without any restrictions.

Segment connection

The four individual segments are connected by means of a patented connection system to create a statically self-supporting (from the outer support surface) tree grating. The shape and selectable tightening torque guarantee problem-free adaptation to the incline and height of the surrounding surface.

Lighting system – Buried spotlights (on request)

To make the tree area even more appealing, all tree gratings can be equipped with buried LED spotlights for installation on site. The multi-function opening already integrated in 2 segments together with the separately available assembly/adaptor set no. B0935326 can be used for flush-mounted installation of buried spotlights. These spotlights manufactured by "dot-spot" (Ø 100 mm) are available in different designs. (see also www.dot-spot.eu)

Growing with the tree

The inner diameter of 680 x 680 mm is easy to expand to 890 x 890 mm on the LAQ18070 and to 1,000 x 1,000 mm on the LAQ20070 by simply disconnecting the tree protector at the disconnecting points intended for this purpose. The LAQ250100 can be expanded from 1,000 x 1,000 mm to 1,400 x 1,400 mm. The tree gratings 1,250 x 1,250 mm and 1,500 x 1,500 mm are not expandable.



Additional design ranges:



RONDELLO® 2.0



CLASSICO® 2.0



QUADRAL®

Protecting the trees



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