Tree Grille
Tree Grate

Design Anders Nyquist

This iron tree grate is installed at the same level as the pavement surrounding the tree. The tree grate allows the soil underneath it to remain uncompacted, encouraging healthy roots. The grate allows the tree roots to absorb water, air and sunlight while protecting them from pedestrians and traffic. Able to withstand weights up to 12 tonnes, the tree grate is strong enough to resist the pressure created by growing tree roots that can break many similar products.

CERTIFICATION

BYGGVARU BEDÖMNINGEN

Dimensions and weight

TREE GRILLE Length: 140 cm Width: 140 cm Depth: 5 cm Weight of each component: 76 kg Number of components: 4

SUB-FRAME Length of sub-frame: 140 cm Width of sub-frame: 140 cm Depth: 8 cm Weight of each component: 37 kg Number of components: 2

ROOT BARRIER Length: 140 cm Width: 140 cm Depth: 60 cm Weight of each component: 145 kg Number of components: 5

Product numbers and combinations

Ö30-71 Markgaller.
Ö30-71BT80 Bevattningstank, 80lit.
Ö30-72 Beslagssats till markgaller, sats om 4 st.
Ö30-73 Underkonstruktion.
Ö30-75 Trio-lyft.
Ö30-76 Betonglåda för markgaller.

Standard colours

Materials and surface treatments

The tree grille is made from cast iron with a thickness of 50/44 cm.
The sub-frame is made from hot-dip galvanized steel with U-beam USP80.
The root control barrier is made from reinforced concrete with a thickness of 10 cm (there are openings in the bottom to enable roots to grow deeper).

Steel
Nola uses high-quality steel with good strength in our products. Steel rusts if left untreated and must therefore be surface treated.

Cast iron
Cast iron is iron with a carbon content between approximately 2 and 4 percent with a large proportion of recycled material. Compared to steel, it has a lower melting point and is therefore easier to melt and requires less energy. Thanks to the high carbon content, so-called graphite is formed. This is the main reason why cast iron, unlike steel, does not rust as quickly and thus has a very long life cycle.

Hot-dip galvanized
Hot-dip galvanizing provides very strong protection against corrosion. The steel is dipped into a bath of hot liquid zinc. The zinc attaches and creates a surface coating on the steel part, which is then taken out of the bath and drained of excess zinc.

Concrete
Concrete is cement mixed with crushed stone or aggregate. The material is very strong in compression but fragile in tension. To compensate for this concrete can be reinforced, often with steel.

Assembly and placement

The surface grille's own weight is substantial enough to secure it to the sub-frame without fittings. If it is installed without the sub-frame we recommend securing it with metal fittings Ö30-72, which you will need to include in your order.

Maintenance

Cast iron
Untreated cast iron eventually rusts, but this does not affect its durability. Products in cast iron that are anti-rust treated and painted black should, however, be touch-up painted and maintained, at regular intervals, if necessary or in case of possible damage, with alkyd paint.

Hor dip galvanized steel
Hot-dip galvanized can be touch-up painted with so-called "cold galvanizing".

Concrete
Both normal concrete and fibre-reinforced concrete are sensitive to hard edge impacts. A concrete product that has been damaged can be repaired with polyester filler, such as the product “Plastic Padding”.

Read more in our general maintenance advice at nola.se/en/care-and-maintenance

Versions

One version is available in steel to withstand heavy loads. Another version has a concrete sub-frame to control root growth and an optional irrigation tank.

Character

Tree grilles are extensions of the pavement that protect the roots while allowing rain to funnel through to water the tree.

Designers

Anders Nyquist