

The design of the *Carmel* tree grate is somewhere between urban paving and the gap that is necessary to plant a tree. It is an element that acts as a transition between the generally orthogonal geometry of paving and the circular perimeter that surrounds a planted tree.

Concrete |  160 cm/max |  380 kg

 Update 04.08.2020



Origin

The authors designed the Carmel tree guard in collaboration with the technical services of ONCE (the Spanish Organisation for the Blind), to improve accessibility in the Carmel neighbourhood in the city of Barcelona. The success of the CARMEL 120 led to the edition of the rest of the collection, with larger and smaller diameters.

Design

The ring-type system is inspired by the concentric rings of the economical wood or coal-fuelled stoves that existed at the start of the 20th century.

Versatile

The collection has a series of variants with an outer square concrete or a circular steel frame. Carmel 160, 120 and 100 are elements formed by two pieces of prefabricated concrete. The plane of the paving inside it can be optionally lengthened with one or two concentric rings made from cast aluminium.

Carmel Circular 160 and 120 have the steel circular frame with the same circular cast aluminium rings. The exclusive use of the concrete frame or circular steel frame without the aluminium rings is an economical solution that adds improved accessibility as compared to conventional solutions with a square format.

Material

Reinforced, dry-mix concrete frames and a rough, water-repellent etched finish. Galvanised steel frames coated with black paint for a wrought iron-like effect. Cast aluminium rings coated with black oven-enamelled paint for a wrought iron-like effect.

Installation

Carmel with a concrete frame is recommended as a guard for trees in the presence of paving slabs. Carmel Circular is recommended for seamless “in situ” asphalt or concrete slab paving.





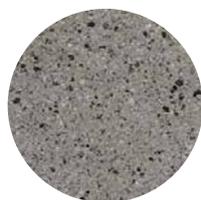
1. Tree grates

Carmel	160	120	100
Dimensions	160 x 160 x 20 cm	120 x 120 x 20 cm	100 x 100 x 20 cm
Frame Weigh	380 kg	274 kg	200 kg
Ring Weigh	31 kg	15 kg	6 kg
Carmel Circular	Circular 160	Circular 120	
Dimensions		Ø 138 x 15 cm	Ø 98 x 15 cm
Frame Weigh		58 kg	40 kg
Ring Weigh		31 kg	15 kg

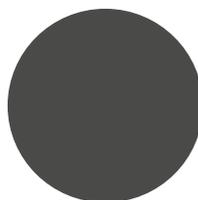
1.1 General features

Material	Concrete	Fixing	Embedded on pavement level
Finish	Etched and waterproofed		
Rings	Cast aluminium		
Finish	Painted oxiron black forge effect		

Colours



GR. Grey

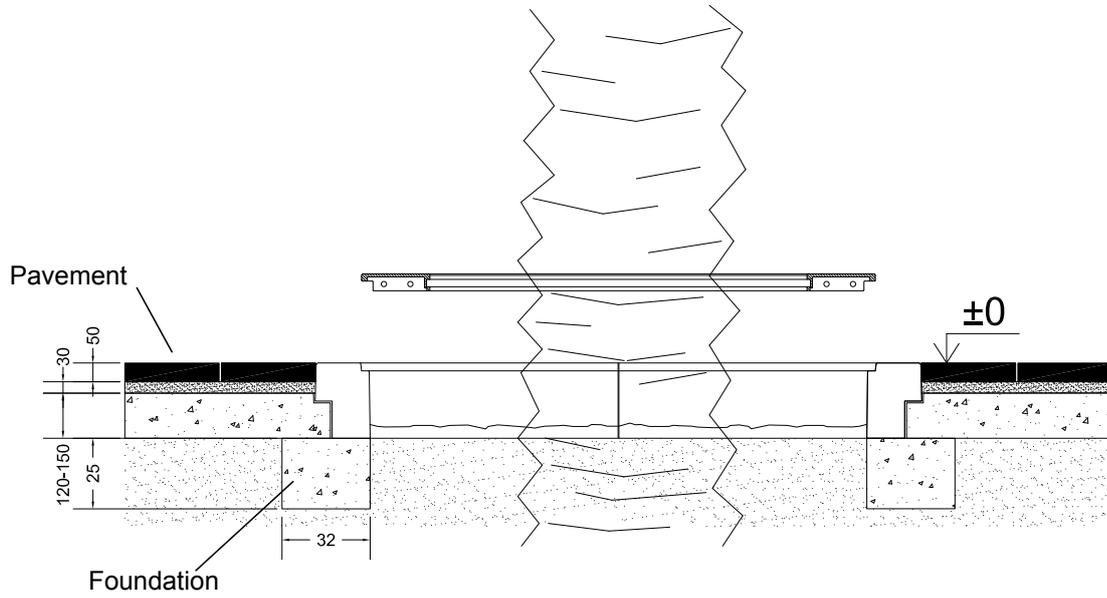


A. Aluminium painted black forge effect

1.2 Installation system

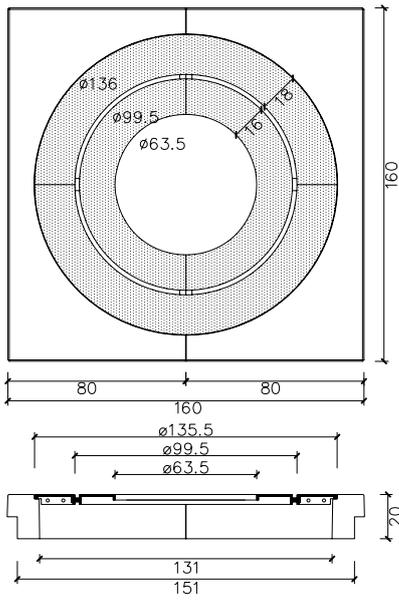
Installation

Excavate the land and make foundations. Place the framework of the tree grate and deliver the flush pavement to level 0.

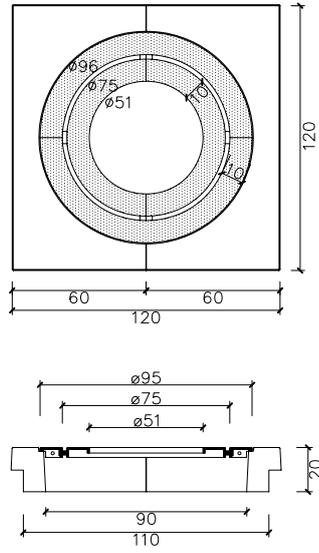


1.3 Geometry

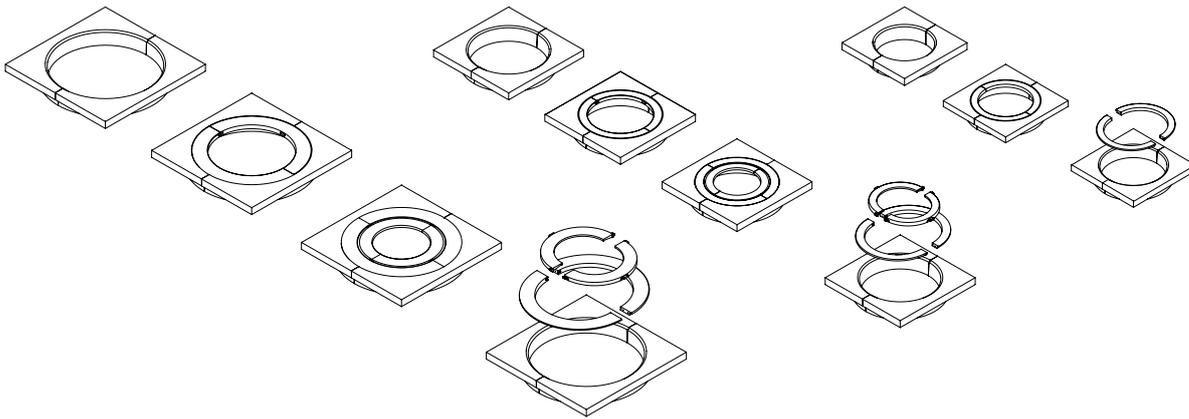
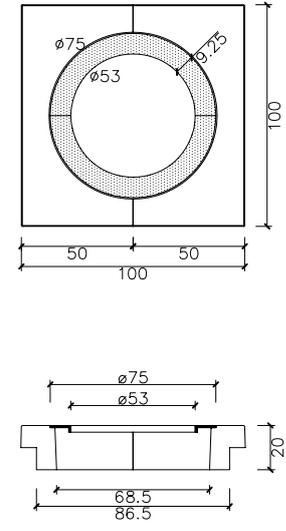
Carmel 160



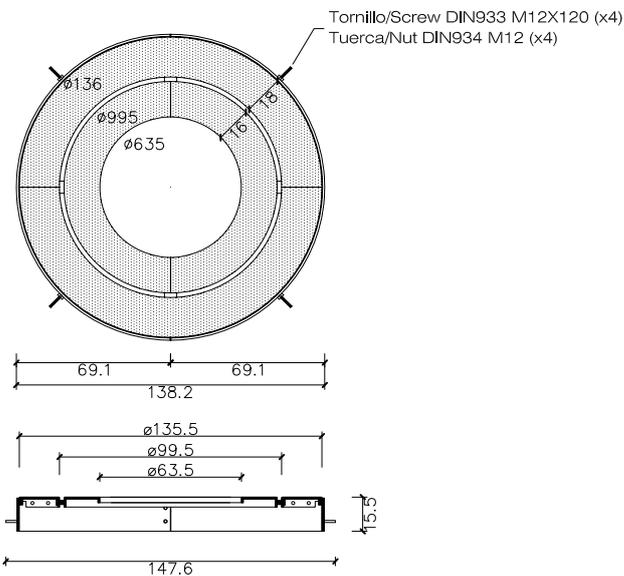
Carmel 120



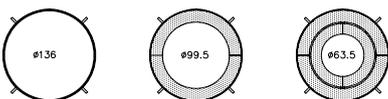
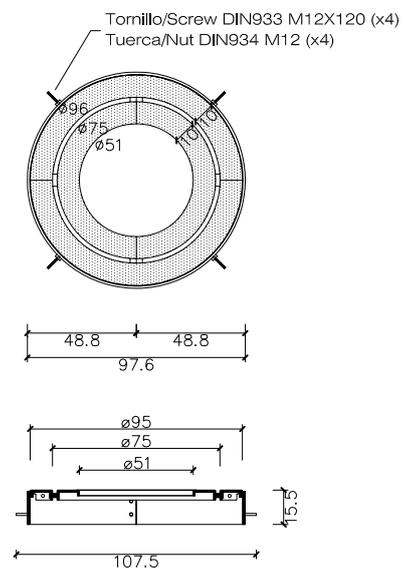
Carmel 100



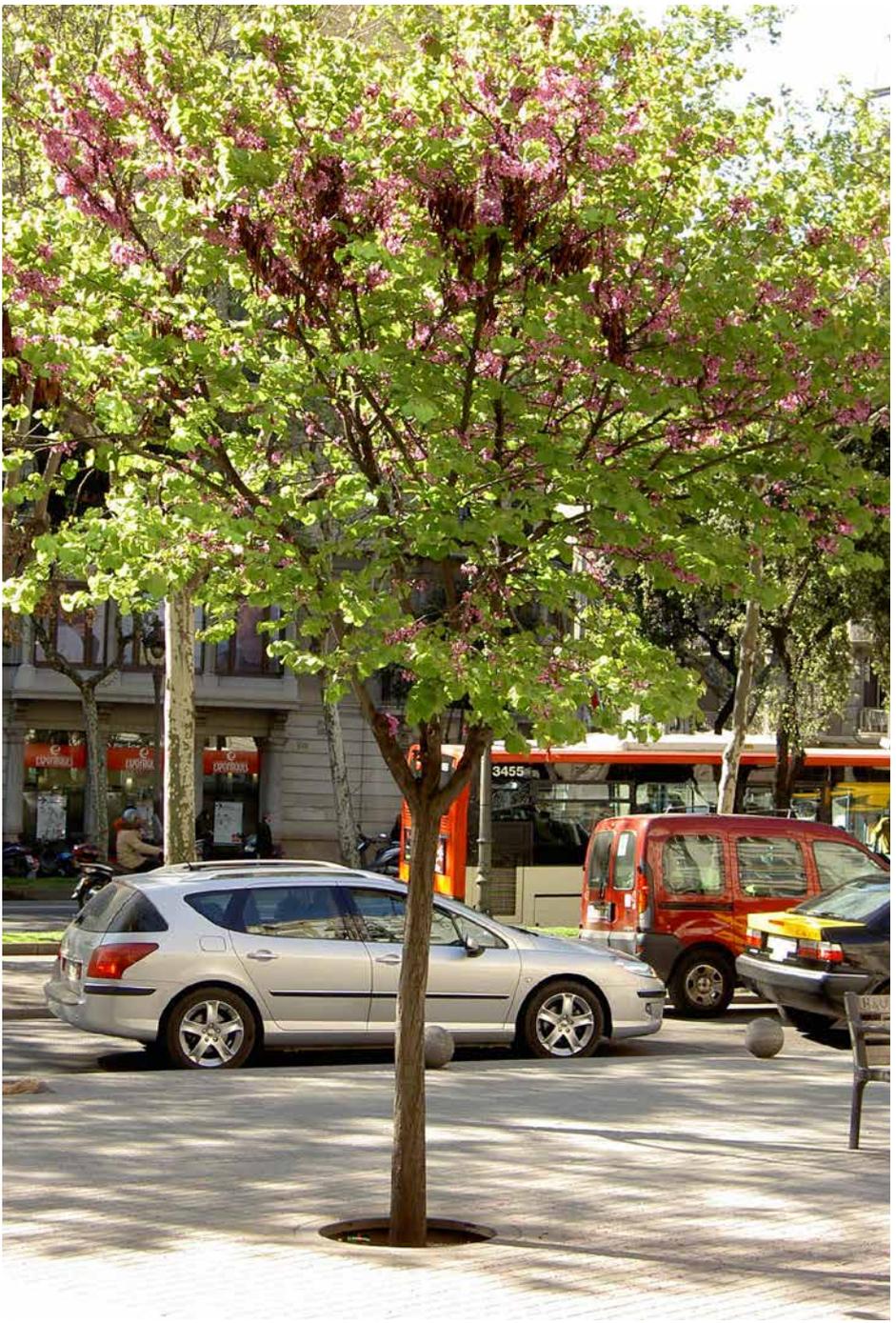
Carmel Circular 160



Carmel Circular 120



CARMEL



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Warranty

5 years in concrete elements.

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