

Moon

Bench

1994

GENERAL DESCRIPTION

This is a young bench which may be used in several ways. It is the only one with a solid backrest which is sufficiently wide to sit on comfortably.

WEIGHTS

1.80 m without backing / backing 114Kg / 132Kg
3.00 m without backing / backing 131Kg / 167Kg

Anti-rust cast iron legs powder-painted in black. The sections joining the strips to the legs are in anti-rust steel powder-painted in black.

MECHANICAL PROPERTIES cast iron GG22

Tensile strength	200-300 N/mm ²
0.1% yield strength	130-195 N/mm ²
elongation at fracture	0.8-0.3%
Compressive strength	720 N/mm ²
0.1% limit of compression	260 N/mm ²
Bending	290 N/mm ²
Shear strength	230 N/mm ²
Resistance to torsion	230 N/mm ²
Modulus of Elasticity	85-110 N/mm ²
Poisson ratio	0.26 v
Brinell hardness	180-220HB30
Density	7.15 g/cm ³

SEAT AND BACKREST

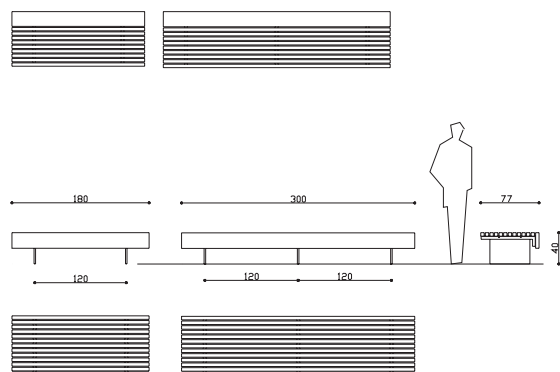
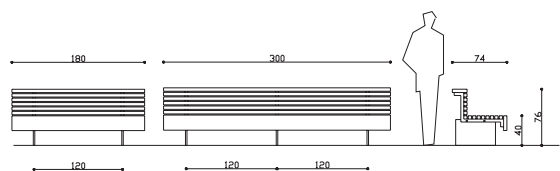
Seat and backrest made of tropical wood strips (with optional FSC Pure certificate), treated with tannin preservers or three layered water varnish, of 45 x 45 mm, lengths of 1,80 and 3,00 m, and 45 x 200 mm injection trimming.

FIXING

The strip fastening screws are in stainless steel. It anchors to the ground with two anti-rust treated steel bolts per leg introduced into holes previously filled with epoxy resin, or fast-drying cement or such.

The bench is delivery disassembled in two parts: the support structures and the seat, with or without backrest.

No functional maintenance is required except to preserve original wood colour.



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TROPICAL WOOD WOOD STRIP

MATERIAL

Tropical wood from west, central and east of Africa and Central America.

This wood is under the compliance of all laws and environmental regulations of the country of origin, ensuring the sustainability of the forests and avoiding the environmental impact.

PHYSICAL PROPERTIES

Grain size	Thick
Density	890-960 kg/m ³
contraction	Medium

Contraction ratios: total (unit)

- Volumetric	13,7-14,5% (0.53 - 0.67)
- Tangencial	8,3-9,2% (0.25 - 0.33)
- Radial	5,1-5,4% (0.14 - 0.20)

MECHANICAL PROPERTIES

Wood free of defects	
-Bending	120-177 N/mm ²
-Modulus of elasticity	13000-19000 N/mm ²
-Axial compression	75 - 86 N/mm ²
-Compression perpend.	17 N/mm ²
-Shear	10.0 N/mm ²
-Dynamic Flexion	5.9 - 8.9 J/cm ²

WOOD PROTECTOR

For wood protection, a tannin inhibition treatment is done. A three layer water varnish is done in order to maintain the wood color. For a period that depends on weather conditions. Maintenance is required to preserve original wood colour. All Wood has a behaviour outdoors which mainly implies variation in colouring, without this making the wood lose any of its mechanical properties, continuing to be the same wood of origin. When woods are not treated with a certain frequency, whatever their type, they lose the natural colour and become greyish, and cracks or small surface alterations can even appear, without them losing resistance or durability.

FSC certified tropical wood can be of different types. The characteristics in this datasheet are as an example.