

# TRAPECIO

## Bench

2003

### GENERAL DESCRIPTION

Large-sized bench made up of two blocks of solid larch wood. For installing in both urban spaces and in parks and private gardens.

WEIGHT 380 kg.

### LEGS

The legs are made out of 10-mm thick S-275 JR sheeting and powder-painted in grey.

### S-275 JR MECHANICAL PROPERTIES

Stretch limit	275 N/mm <sup>2</sup>
Breaking strength	410-450 N/mm <sup>2</sup>
Resilience	27 J
Minimum elongation	20 %

### S-275-JR CHEMICAL COMPOSITION

Carbon (C)	0,24 %
Manganese (Mn)	1,60 %
Phosphorus (P)	0,055 %
Sulphur (S)	0,055 %
Nitrogen (N)	0,011 %

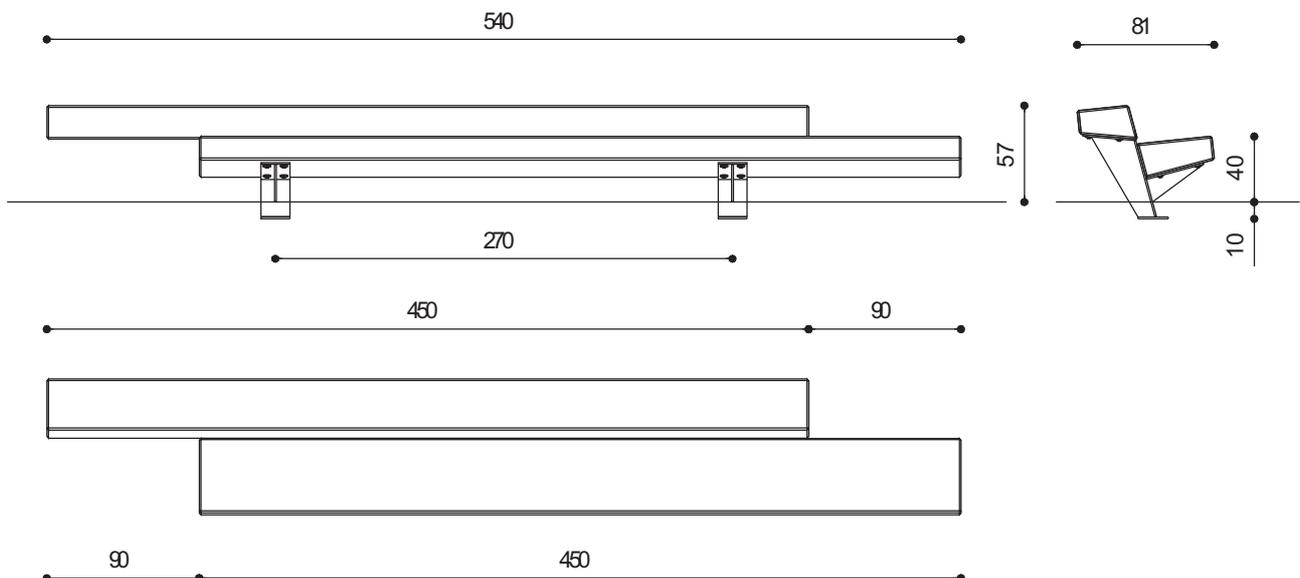
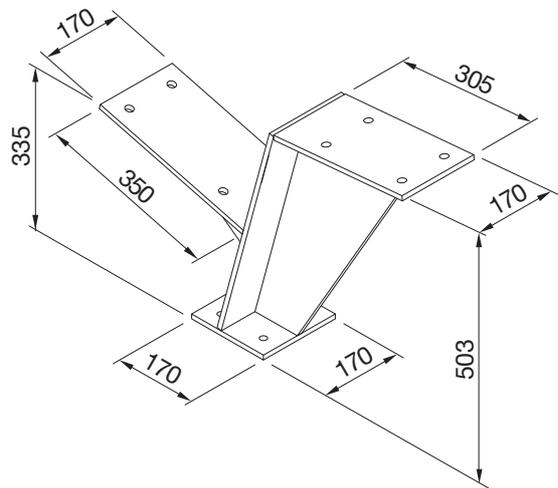
### SECURING

The bench is secured by means of anchoring studs which come with it. Four studs are used per leg (M12x100 in galvanized steel). These are inserted in holes made previously in the foundation.

### SEAT AND BACK

Made with two wooden blocks in form of structural beams, 4.5 metres long with an approximate cross-section of 20 x 40 cm, made of laminated larch wood.

The blocks are fastened to the legs by means of dichromate steel nuts and bolts 90 cm apart.



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## LARCH WOOD

### MATERIAL

The larch wood comes from Central Europe. Larch wood without albumin and resin, type C24 according to EN338, with humidity between 8 and 15%.

This wood has been obtained in compliance with all legal and environmental standards of the country of origin, thus ensuring forest sustainability and preventing ecological impact.

This wood does not come from primary forests.

### PHYSICAL PROPERTIES

Grain size	fine or medium
Density	470 - 600 - 650 Kg/m <sup>3</sup>
Contraction	nervous but stable

### Contraction ratios: total (unit)

	(Spain)
- Volumetric	12 - 15% (0,35 - 0,50)
- Tangential	(0,20 - 0,35)
- Radial	(0,11 - 0,20)

### MECHANICAL PROPERTIES

	(Spain)
- Static bending	88 - 99N/mm <sup>2</sup>
- Modulus of elasticity	10600 - 14500N/mm <sup>2</sup>
- Axial compression	45 - 62N/mm <sup>2</sup>
- Sideways comp.	- N/mm <sup>2</sup>
- Cutting hardness	8,8 - 10,9N/mm <sup>2</sup>
- Dynamic bending	5,0 - 7,5J/cm <sup>2</sup>

### PROTECTIVE TREATMENT

Treated with Cedria Fon-Tin 1 layer: Tinted base primer for wood based on acrylic resins in finely particled aqueous dispersion, with biocide principles to combat the action of chromogenous mildew (blue stain) xylophagous insects (wood-worm) and tannins (black stain).

Trated with Cedrian Barni-Sol 2 layers: Water based wood-stain on pure acrylic resin base in very finely particled aqueous dispersion with special water-repellence effect and strong solar pretection.

