Olga Tarrasó - Jordi Henrich

NU

Bench

1991

GENERAL DESCRIPTION
In 10 years the simple shaped Nu Bench, made of galvanized steel and large-sized solid wooden strips, has become a classic in new urban development.

BENCH WEIGHT WITHOUT BACK

2,58m pine/tropical	34 kg / 45 kg.
3,70m pine/tropical	53 kg / 69 kg.

BENCH WEIGHT WITH BACK

2,58m short back pine/tropical	51 kg / 69 kg.
2,58m long back pine/tropical	58 kg / 83 kg.
3,70m metal back pine/tropical	103 kg / 119 kg.
3,70m wooden back pine/tropical	79 kg / 109 kg.

STRUCTURE
Made of hot-plated S-275 JR steel. Consists of round tubular legs, a disc base, and a longitudinal brace welded to the upper legs. The sheeting is perforated on the metal-backed bench.

S-275 JR MECHANICAL PROPERTIES

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

S-275-JR CHEMICAL COMPOSITION

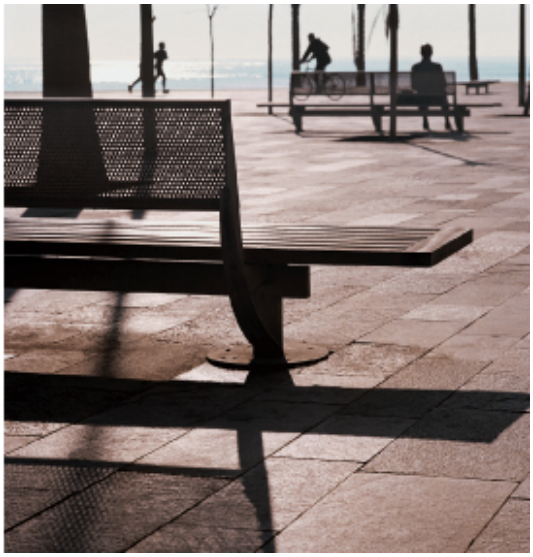
Carbon (C)	0,24 %
Manganese (Mn)	1,60 %
Phosphorus (P)	0,055 %
Sulphur (S)	0,055 %
Nitrogen (N)	0,011 %

SEAT AND BACK
Made of solid tropical wood with tannin blocker or pinewood with autoclave (FSC optional). The seat consists of 7 strips for the C/R model and 8 strips for the S/R model. The wooden back has 4 strips and two different lengths: 1.34 m and 2.58 m. The screws for assembling the strips are made of steel with antioxidant protection.

SECURING
The bench is held together with four stainless steel screws that are supplied with it.

The bench is delivered unassembled in two or three parts, depending on the model, unless instructions are given to the contrary. Assembly instructions are provided.

No functional maintenance required unless one wishes to maintain the original colour of the wood.



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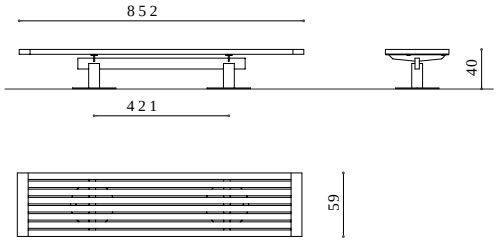
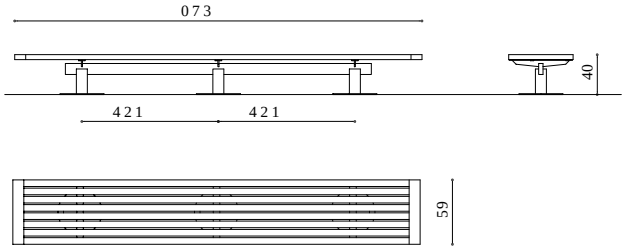
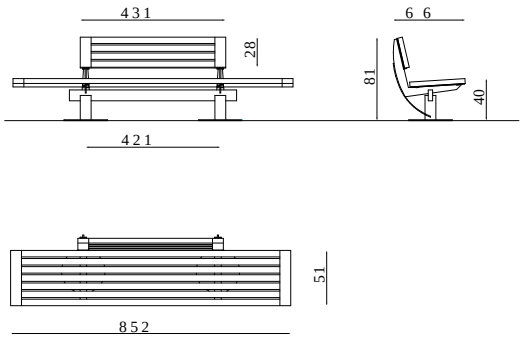
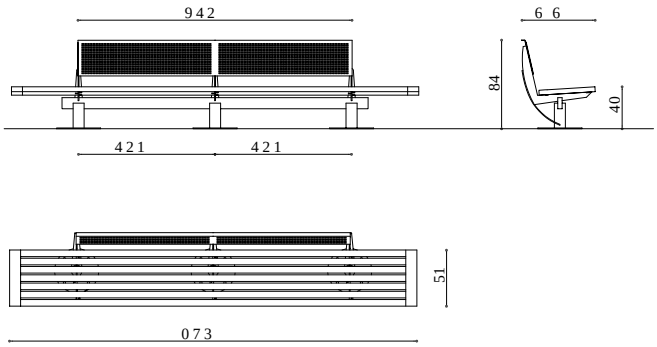
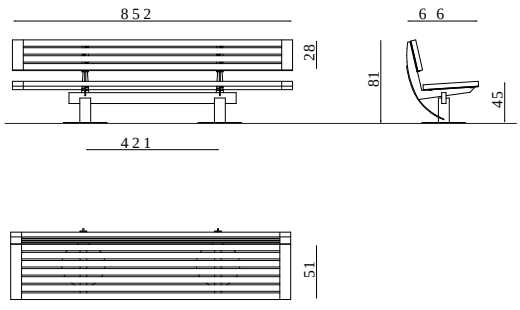
SANTA & COLE

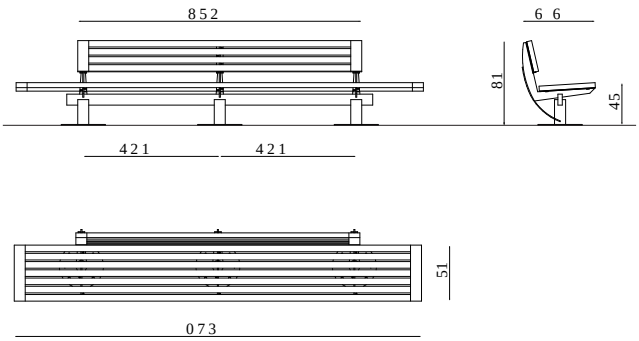












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RED PINE STRIPS

MATERIAL
The Red Pine wood comes from Central Sweden. This wood has been classified Grade V according to the General Classification Standards for Swedish Sawn Timber applicable to Red Pine and Spruce, as established by the Timber Classification Committee in 1958.
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.

COLOUR
The sapwood is pale yellow in colour and the heartwood is reddish.

PHYSICAL PROPERTIES

Grain size	fine or medium
Density	500 - 520 - 540 Kg/m^3
Contraction	not nervous

Contraction ratios: total (unit)

	(Spain)	(Rest)
- Volumetric	12,9% (0,34)	12 - 15% (0,35 - 0,50)
- Tangential	6,8% (0,21)	(0,20 - 0,35)
- Radial	3,8% (0,12)	(0,11 - 0,20)

MECHANICAL PROPERTIES

	(Spain)	(Rest)
- Static bending	90 - 110	79 - 100N/mm^2
- Modulus of elasticity	8600-10000	10800 - 13000N/mm^2
- Axial compression	42 - 47	45 - 55N/mm^2
- Sideways comp.	9,2	- N/mm^2
- Cutting hardness	10 - 11	7,2 - 11,2N/mm^2
- Dynamic bending	2,25	4,0 - 7,0J/cm^2

PROTECTIVE TREATMENT
Treated with the Xylazel IMPRALIT KDS autoclave to protect the wood. This ensures that the wood is protected from Class 1 to Class 4 risks, described in the UNE EN 335-1-92 and UNE EN 335-92 standards, for a 10-year period.

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TROPICAL WOOD STRIPS

MATERIAL
Tropical timber from Western, Central and Eastern Africa, or Central America.
This wood has been obtained in compliance with all legal and environmental standards of the country of origin, ensuring forest sustainability and preventing ecological impact.
This wood does not come from primary forests.

COLOUR
The sapwood varies from yellowish white to pinkish white and the heartwood from yellowish brown to reddish brown.

PHYSICAL PROPERTIES

Grain size	thick
Density	890-960 Kg/m^3
Contraction	medium nervous

Contraction ratios: total (unit)

- Volumetric	13,7-14,5% (0,53 - 0,67)
- Tangential	8,3-9,2% (0,25 - 0,33)
- Radial	5,1-5,4% (0,14 - 0,20)

MECHANICAL PROPERTIES
Defect-free wood

- Static bending	120-177 N/mm^2
- Modulus of elasticity	13000-19000 N/mm^2
- Axial compression	75 - 86 N/mm^2
- Sideways compression	17 N/mm^2
- Shear strength	10,0 N/mm^2
- Dynamic bending	5,9 - 8,9 J/cm^2

PROTECTIVE TREATMENT
Primer is applied to protect the wood from tannins. This durable, highly resistant primer treatment blocks tannin stains and prevents the formation of mould and blue stains in the wood.