Holzindustrie Nahmitz
– seit 1905 –

Robinia wood

for gardening/landscaping & playground construction

PHOTO: ZIMMER.OBST

FSC
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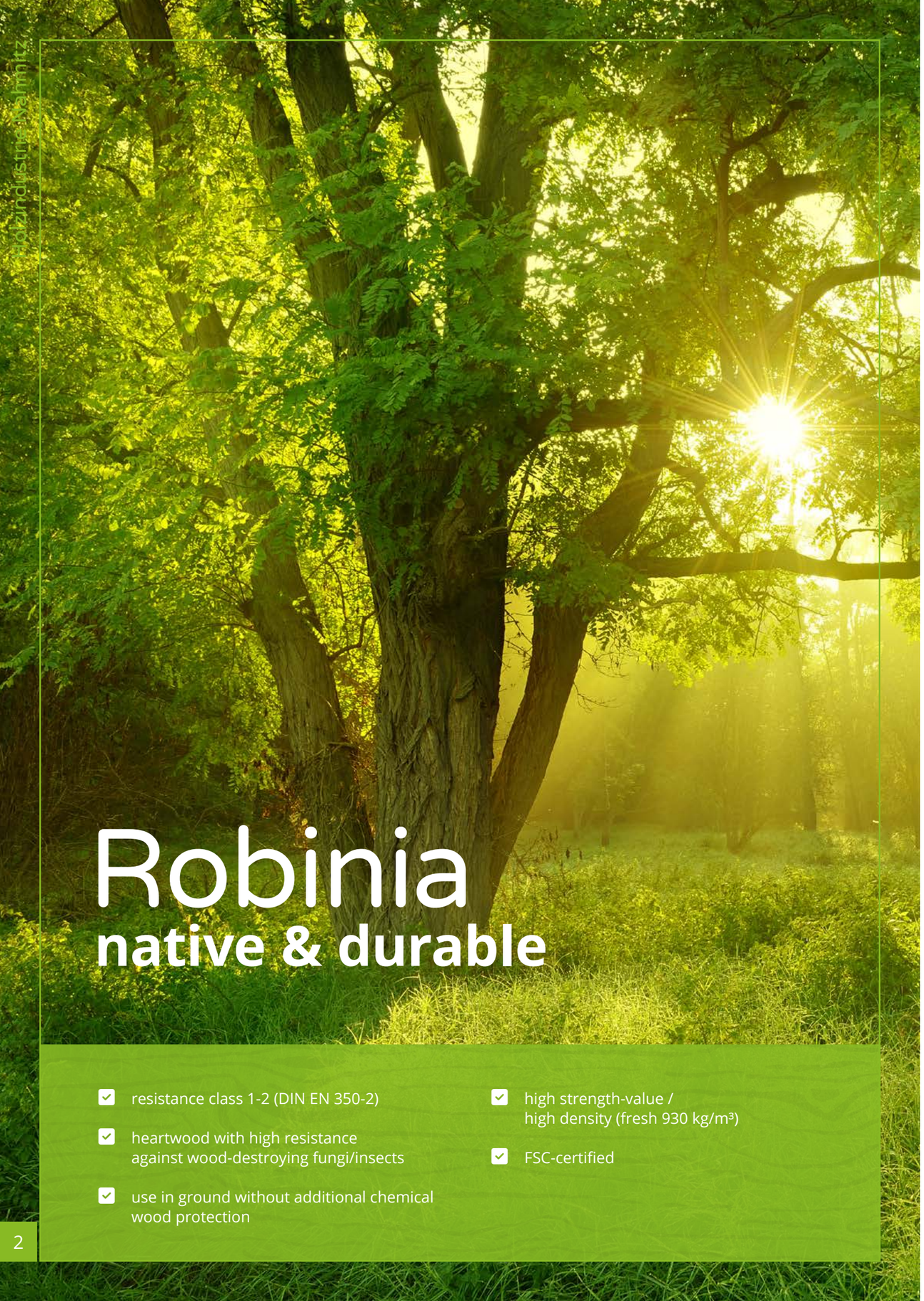
The mark of responsible forestry



Robinia
native & durable

- resistance class 1-2 (DIN EN 350-2)
- heartwood with high resistance against wood-destroying fungi/insects
- use in ground without additional chemical wood protection
- high strength-value / high density (fresh 930 kg/m³)
- FSC-certified

Robinia wood

Robinia sapwood-free

Product range

Category XS
Ø 5 – 7 cm
↔ 150, 200, 250, 300 cm

Category S
Ø 8 – 10 cm
↔ 150, 200, 250, 300, 400 cm

Category M
Ø 10 – 14 cm,
14 – 18 cm,
18 – 22 cm,
20 – 24 cm
↔ 200, 250, 300, 400, 500, 600 cm

Category L
Ø 25 – 29 cm, 30 – 34 cm
↔ 200, 250, 300, 400, 500, 600 cm

Category XL
Ø 35 – 39 cm, 40 cm +
↔ 200, 250, 300, 400, 500, 600 cm

Processing
sapwood-free + sanded (playground quality)

Custom-made

on request

Robinia sawed-wood

Product range

Robinia untrimmed boards, sawed
Thickness: 28, 35, 42, 48, 54, 60 mm
Single widths: 20 cm upwards
Processing: sawed, with bark
Lengths: 200, 250, 300, 400 cm

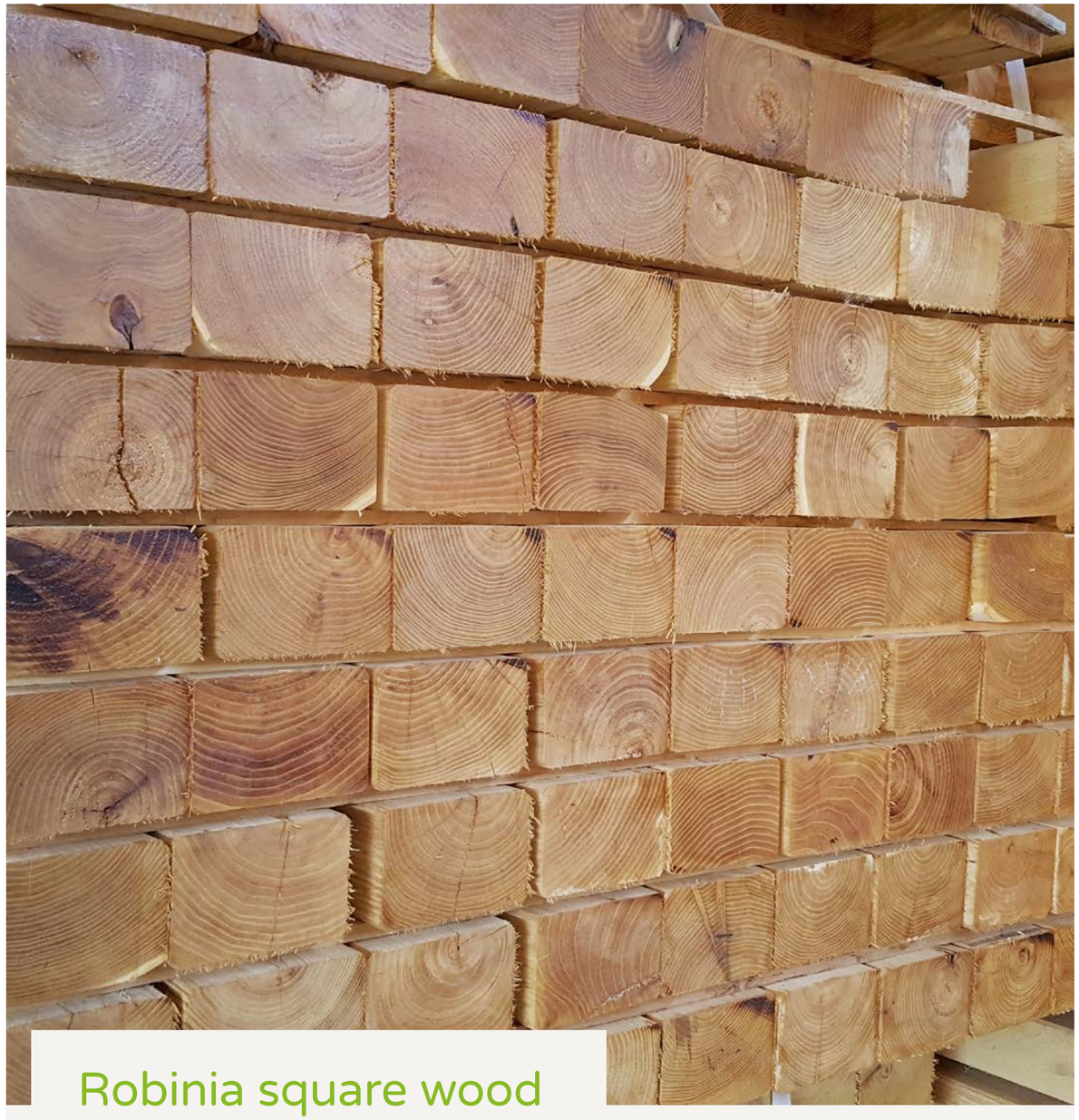
Robinia untrimmed boards with natural tree edge
Thickness: 22 mm
Single widths: 12 cm upwards
Layer widths: 95 cm
Processing: 2-sides planed, tree edge sapwood-free/sanded
Lengths: 150, 200, 250, 300 cm

Robinia trimmed boards (falling widths)
Thickness: 22, 28, 35 mm
Single widths: 10 cm upwards
Layer widths: 115 cm
Processing: 4-sides planed, length-sides chamfered
Lengths: 150, 200, 250, 300 cm

Robinia trimmed boards (fixed widths)
Dimensions: 25 × 140, 30 × 120, 30 × 140, 40 × 140 mm
Processing: 4-sides planed, length-sides chamfered
Lengths: 150, 200, 250, 300 cm

Custom-made

on request



Robinia square wood

Product range

- ☑ 42 × 80 mm
- ☑ 42 × 120 mm
- ☑ 50 × 80 mm
- ☑ 50 × 100 mm
- ☑ 70 × 70 mm

↔ 200, 250, 300 cm

- ☑ 80 × 100 mm
- ☑ 80 × 120 mm
- ☑ 80 × 140 mm
- ☑ 100 × 100 mm
- ☑ 140 × 240 mm

↔ 200, 250, 300 cm

Processing

☑ 4-sides planed
☑ length-sides chamfered

Custom-made

on request

Robinia palisade - shaped

Product range

- 8 × 50 cm
- 8 × 100 cm
- 8 × 125 cm
- 8 × 150 cm
- 8 × 200 cm
- 10 × 50 cm
- 10 × 100 cm
- 10 × 125 cm
- 10 × 150 cm
- 10 × 200 cm
- 12 × 100 cm
- 12 × 125 cm
- 12 × 150 cm
- 12 × 200 cm
- 12 × 250 cm
- 14 × 100 cm
- 14 × 125 cm
- 14 × 150 cm
- 14 × 200 cm
- 14 × 250 cm
- 16 × 100 cm
- 16 × 125 cm
- 16 × 150 cm
- 16 × 200 cm
- 16 × 250 cm
- 18 × 100 cm
- 18 × 125 cm
- 18 × 150 cm
- 18 × 200 cm
- 18 × 250 cm

Processing

- cylindrically shaped
- chamfered on at least one side

Robinia palisade - natural

Product range

- Ø 10 – 14 cm
- Ø 14 – 18 cm
- Ø 18 – 22 cm
- Ø 20 – 24 cm
- Ø 25 – 29 cm
- Ø 30 – 34 cm
- ↔ please coordinate individual lengths with us

Processing

- sapwood-free
- sanded
- chamfered on at least one side

Robinia wood pavement

Round wood pavement

Product range

- ↕ 10 cm, 14 cm, 20 cm
- Ø 8 – 20 cm mixed

Processing

- sapwood-free
- sanded
- chamfered

Square wood pavement

Product range

on request

Processing

on request

climbing- / rootstock logs / Y-type poles

Climbing logs made of oak

Branches:	usually 5 – 7
Branch length:	at least 100 cm
Diameter:	20 – 40 cm
Length:	500 – 700 cm
Processing:	sapwood-free and sanded

Rootstock logs S made of robinia

Root plate:	at least 50 cm
Diameter:	approx. 10 – 14 cm
Length:	at least 300 cm

Rootstock logs M made of robinia

Root plate:	at least 80 cm
Diameter:	approx. 15 – 20 cm
Length:	400, 500 cm

Rootstock logs L made of robinia

Root plate:	at least 100 cm
Diameter:	approx. 20 – 25 cm
Length:	400, 500, 600 cm

Y-type poles S out of robinia

Fork:	at least 50 cm Ø
Diameter:	approx. 10 – 14 cm
Length:	at least 300 cm

Y-type poles M out of robinia

Fork:	at least 80 cm Ø
Diameter:	approx. 15 – 20 cm
Length:	400, 500 cm

Y-type poles L out of robinia

Fork:	at least 100 cm Ø
Diameter:	approx. 20 – 25 cm
Length:	400, 500, 600 cm

Robinia stakes - peeled

Field of application	☑ paddock fence ☑ wildlife protection ☑ pasture fence ☑ wine-growing	☑ planting stakes ☑ enclosure ☑ protection stake ☑ skewed stake
Product range	☑ 6 – 8 × 60 cm ☑ 8 – 10 × 100 cm ☑ 8 – 10 × 125 cm ☑ 8 – 10 × 150 cm ☑ 8 – 10 × 200 cm ☑ 8 – 10 × 250 cm ☑ 8 – 10 × 300 cm ⓘ other diameters available on request	☑ 10 – 12 × 100 cm ☑ 10 – 12 × 125 cm ☑ 10 – 12 × 150 cm ☑ 10 – 12 × 200 cm ☑ 10 – 12 × 250 cm ☑ 10 – 12 × 300 cm
Processing	☑ peeled	☑ pointed

Robinia pasture stake

Product range	**6 – 8 cm** ↔ 150, 180, 200, 225, 250 cm	**7 – 9 cm** ↔ 150, 180, 200, 225, 250 cm
Processing	☑ split ☑ partially sanded ☑ pointed ☑ top chamfered	
Custom-made	on request	

Robinia stakes - sapwood-free

Product range

- 8 – 10 × 100 cm
- 8 – 10 × 125 cm
- 8 – 10 × 150 cm
- 8 – 10 × 200 cm
- 8 – 10 × 250 cm
- 8 – 10 × 300 cm
- 10 – 12 cm × 100 cm
- 10 – 12 cm × 125 cm
- 10 – 12 cm × 150 cm
- 10 – 12 cm × 200 cm
- 10 – 12 cm × 250 cm
- 10 – 12 cm × 300 cm

other diameters available on request

Processing

- sapwood-free
- sanded
- pointed
- top chamfered

Robinia stake – shaped

Product range

- 8 × 100 cm
- 8 × 125 cm
- 8 × 150 cm
- 8 × 200 cm
- 8 × 250 cm
- 10 × 100 cm
- 10 × 125 cm
- 10 × 150 cm
- 10 × 200 cm
- 10 × 250 cm
- 12 × 100 cm
- 12 × 125 cm
- 12 × 150 cm
- 12 × 200 cm
- 12 × 250 cm

other diameters available on request

Processing

- shaped
- pointed
- top chamfered

Robinia frames - peeled

Product range

- 9 – 11 × 250 cm
- 9 – 11 × 300 cm

Processing

- naturally grown
- chamfered on both sides
- peeled
- semi-circular

Custom-made

on request

Robinia posts

Product range

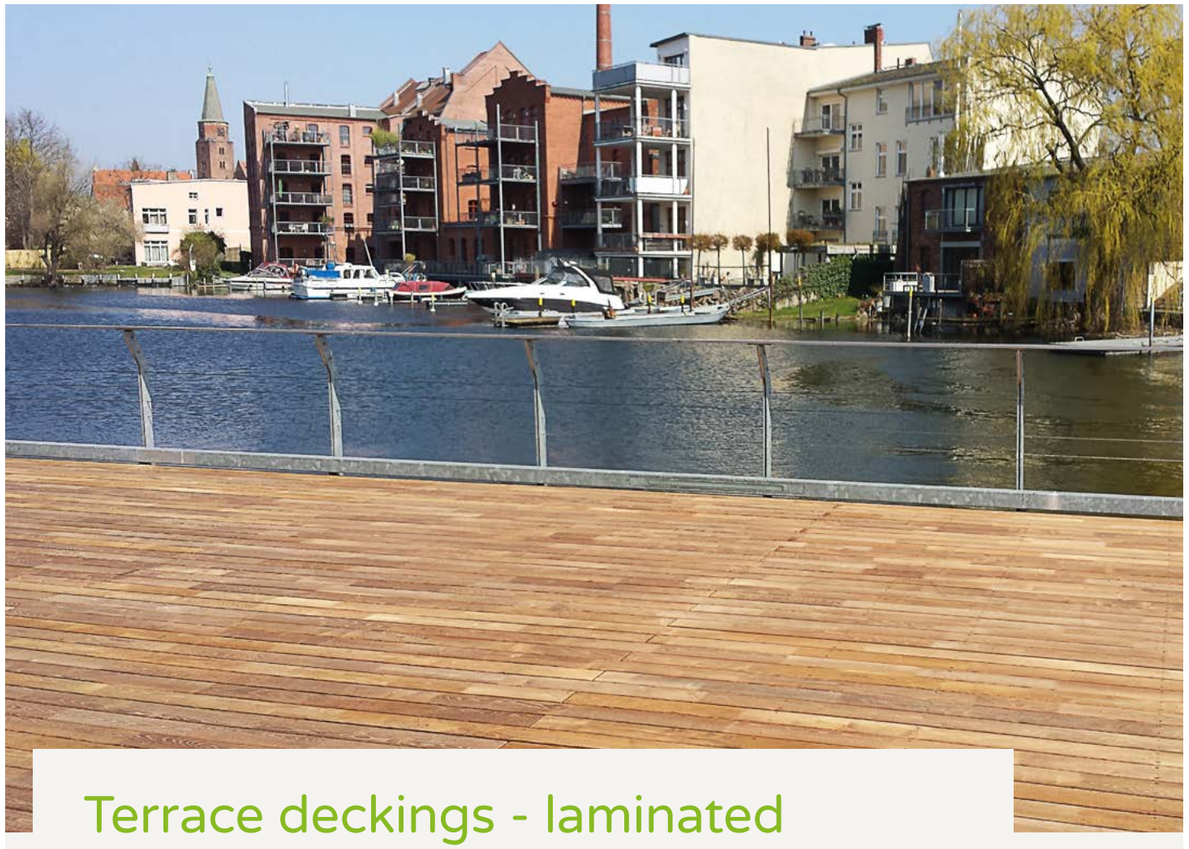
Profiles	Lengths
22 × 22 cm	50 – 150 cm
25 × 25 cm	50 – 150 cm
3 × 5 cm	50, 60, 75, 100 cm
4 × 4 cm	50, 60, 75, 100 cm
4 × 6 cm	50, 60, 75, 100 cm

Processing

- sawn
- pointed

Custom-made

on request



Terrace deckings - laminated

Field of application	☑ bench profiles ☑ sub-constructions	☑ constructions
Dimensions	☑ 23 × 120 mm	
Length	↔ 400, 500, 600 cm	
Quality class	1	
Resistance class	1 – 2 (DIN EN 350-2)	
Strength class	D30	
Quality	☑ knot-free ☑ minimum of cracks ☑ resin-free	☑ no distortion ☑ no twisting ☑ no warping
Product range	☑ natural, fluted ☑ natural, plain	

Robinia

native, durable, dimensionally stable

Bonded robinia – quality class 1
- ☑ resistance class 1–2, DIN EN 350-2
- ☑ laminated / finger-jointed
- ☑ kiln dried

No exotic timber
- ☑ no plastic, no chemicals
- ☑ robinia is weather-resistant without additional chemical wood protectants (Kl. 1–2 EN 350-2).

Quality & color
- ☑ quality like exotic timber: free of knots, minimum of cracks, resin free, no distortion, twisting or warping
- ☑ natural-coloured

Strength
- ☑ bonding does not reduce strength
- ☑ the terrace decking board 23 × 120 mm equals strength class D 30 (according to EN 384)

Certified as FSC compliant

Profiles

23 × 63 mm	rhombus profile
40 × 60 mm	bench profile, construction etc.
45 × 60 mm	substructure
45 × 70 mm	substructure, bench profile
45 × 90 mm	bench profile
40 × 90 mm	bench profile, terrace decking
60 × 60 mm	bench profile, terrace decking
70 × 90 mm	substructure, handrail
90 × 90 mm	post, handrail
45 × 120 mm	terrace decking, handrail
23 × 120 mm	terrace decking
23 × 100 mm	terrace decking with lateral groove

- ☑ standard length 6 m
- ☑ natural colored
- ☑ custom length on request

Terrace decking

- ☑ standard: 23 × 120 mm × 6 m, 4 m and 5 m on request
- ☑ visible side plain oder profiled
- ☑ leveled underside
- ☑ natural colored
- ☑ quality class 1, resistance class 1–2 EN 350-2

Natural characteristics of wood

Resistance	Class 1 – 2 (DIN EN 350-2 / natural longevity)
Advantage	durable, without chemical wood preservation (sapwood and pith area have low resistance)
Quality	natural, typical characteristics and texture for wood (for example curvatures, bark inclusions, rotten spots)

Grey, but healthy. Wood loses its fresh colour from weathering.

Cracks in timber,
are often considered as worrying or dangerous, but years of experience can not confirm this.
In most cases of complaint neither the performance nor the longevity of the timber are affected by cracks. These cracks are created due to the physical characteristics of timber. This is a natural process and can not be avoided.
Therefore an exchange is pointless, since the timber does not change its natural properties.

Risks by cracks
Especially cracks in the surrounding of playgrounds and playground equipment can lead to injuries. Round logs in particular can show v-shaped cracks from the core to outwards due to dryness, but those are regarded as uncritical.
The risk potential of this equipment is in compliance with prevailing standards and control, for example TÜV.

According to DIN EN 1176 for playground equipment (former DIN 7926-1/Absch 4.2.7), cracks are acceptable. „Cracks in wood components caused by the weather are no dangerous openings in terms of the Norm, because the chance of fingers getting stucked is nearly ruled out, due to the shape of the crack (tapered inwards).

Postprocessing and care
Sharp edges or splinters that are not desired can be removed by usual artisanal means, for example sanding or deburring. The roughness of the surface can be removed in the same way.
Before the beginning of the season playgrounds should be inspected and if necessary the wood reworked.
Protective coatings reduce the moisture absorption and thus resulting deformation caused by extreme weather changes.

Conclusion
Cracks in woods are often perceived as flawed or objectionable, although objective disadvantages for the planned use do not exist in most cases. Cracks caused by weather are unavoidable and are in principal no deficiency. A replacement will not change the physical characteristics of wood.

Wood preservation
To ensure the preservation and maintenance of wood the structural protection in accordance to DIN 52175, DIN 68800/1-5 should be followed.

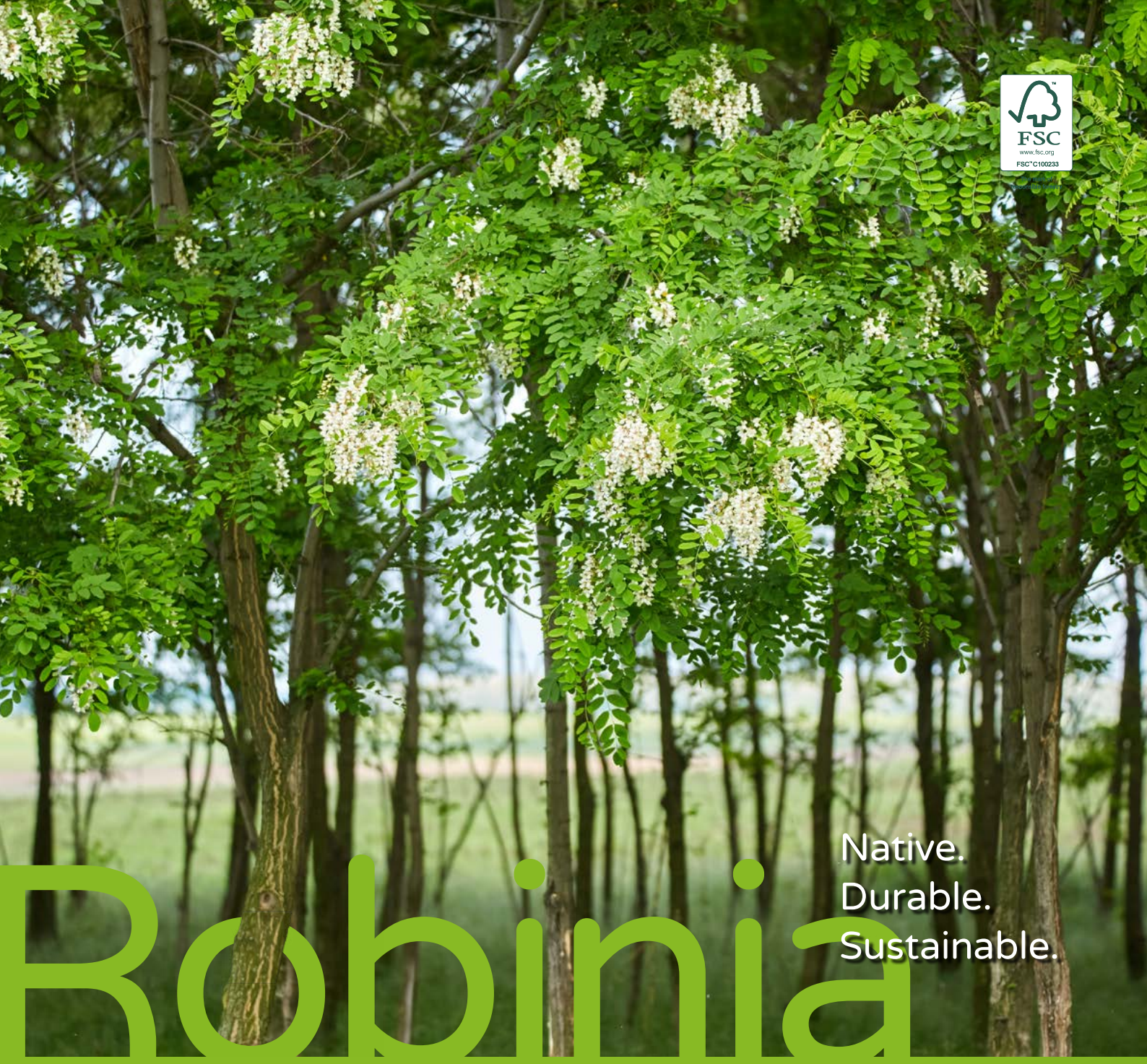
Weathering
Wood loses its fresh colour within a few weeks or months from weathering. Under the influence of sunlight, especially ultraviolet radiation the surfaces bleach out. Further weathering, sun, precipitation and temperature lead to a grey surface at last.

Tannic acid
As consequence of emerging tannic acid with robinia dark-bluish spots become visible on the surface. Erosion and natural drying result in discoloration of surfaces. Adjacent fair-faced brickwork or dressed stones should be protected against soiling until the emergence of tannic acid ceases.
Metals, especially iron, show a strong reaction with tannic acid and sufficient protection has to

be ensured. Discolored or soiled surfaces by tannic acid can be washed with suitable means. These superficial discolorations disappear after a few months from weathering.

Further characteristics
The sapwood of robinia has barely any resistance, which has hardly any meaning for most applications, since the sapwood is only some millimeter thick as compared to oak. The area around the pith has a lowered durability. There are occasional complaints about rot in the heart of the wood and the fear that it spreads out. The fact is that this is restricted to the area around the pith and the essential part of the wood is not affected by it and is healthy for many years. Several research studies have been done to this occurence that confirm without exception, that rot in the heart does not spread to further parts of the log.

Source: MPA Berlin-Brandenburg in Eberswalde (Dr. Schumacher) Institut für Holzwirtschaft Hamburg (Dr. Koch, Prof. Liese)



Robinia

Native.
Durable.
Sustainable.

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