

TECHNICAL DATA SHEET

Product:	Wooden Accessories – Beech & Iroko
Brand:	LAVA
Exporter's Name:	Lava Metal Döküm San. ve Tic. A.Ş.
Exporter's Address:	Eskişehir Organize Sanayi Bölgesi, 75.Yıl OSB Mah. 28. Cad. No:14 ODUNPAZARI / ESKİŞEHİR / TÜRKİYE
Manufacturer's Name:	Naturel Wood Pazarlama İmalat San. ve Tic. Ltd. Şti.
Manufacturer's Address:	Köyün Kendisi Esenli Küme Evler No:3 ESENLİ KÖYÜ / ÇİLİMLİ / DÜZCE / TÜRKİYE
Product Names:	Beechwood Service Stand, Beechwood Serving Platter, Beechwood / Natural Color, BeechPlywood Serving Platter, Iroko Serving Platter, Iroko Massive, Iroko wooden Lid, Serving Platter Rectangle, Iroko Massive Self-Handled, Serving Platter Oval, Chopping & Serving Board, Iroko Massive Magnetic Feature, Chopping & Serving Board Set Rectangle, End Grain Chopping & Serving Board Round, Serving Ladle Set, Olive-Tree Massive, Serving Mini Spoon, Fork, Honey Spoon, Olive-Tree Massive, Salad Bowl Set, Lime-Tree Massive, Service Stand Rectangle, Beechwood Panel, Service Stand Oval, Service Platter Oval, Beechwood Panel Self-Handled, Trivet Round,
Harmonized System Code:	732392000000 – Wooden set products within the scope of product code K4 and K44 441990009019 - Other wooden products
Country of Production:	TÜRKİYE
Geographical location of all pieces of land where products are produced:	40.86843485289011, 31.101150426615536

1. Product Information

- **Product Type:** Wooden Accessories (see product names in the above table for reference)
- **Wood Species:**
 - **Beech (*Fagus sylvatica*) – European origin :** A common hardwood species in Türkiye, it ranges in color from light cream to reddish brown. It has a homogeneous and uniform fiber structure. It exhibits excellent hand and machine workmanship. It is suitable for turning and carving. It has very high pliability after steaming. It is successful in sanding, polishing, and painting. It has low natural durability and is susceptible to fungi and insects. It requires impregnation if used outdoors. It is long-lasting indoors.
 - **Iroko (*Milicia excelsa*) – African origin :** A tropical hardwood of African origin. Its color can be golden yellow, yellow brown, or dark brown. It darkens over time. Its grain is generally straight, sometimes wavy. Its natural oily texture makes it durable for outdoor use. Hand and machine workmanship is generally good. The natural oil content can make some bonding processes difficult. Sanding, polishing, and painting results are generally satisfactory. Its natural durability is very high. It is resistant to fungi, insects, and termites. It is long-lasting outdoors. Impregnation is generally not required.

2. Technical Specifications

Property	Beech	Iroko
Density (air dry, 12% MC)	0.65 – 0.75 g/cm ³	0.60 – 0.75 g/cm ³
Full dry density	0.60 – 0.72 g/cm ³	0.55 – 0.70 g/cm ³
Humidity saturation point	25 – 30%	25 – 30%
Working (dimensional mobility)	high	medium
Swelling rate (Radial/Tangential/Volume)	5 – 6% / 11 – 12% / 16 – 17%	3 – 4% / 6 – 7% / 9 – 11%
Compressive strength (parallel to the fibers)	40 – 65 N/mm ² (average ~52)	45 – 60 N/mm ²
Flexural strength (MOR)	90 – 120 N/mm ² (average ~105)	90 – 120 N/mm ²
Elastic modulus (MOE)	11,000 – 15,000 N/mm ² (average ~12,000)	10,000 – 13,000 N/mm ²
Hardness (Brinell)	3.4 – 4.0 HB	3.5 – 4.0 HB
Durability Class (EN 350)	Class 5 (Not durable, indoor)	Class 1-2 (Very durable, outdoor)
Workability	Easy to machine, good finish	Medium workability, oily texture
Color	Pale cream to pinkish-brown	Golden-orange to medium brown, darkens over time
Grain / Texture	Straight grain, fine texture	Interlocked grain, medium to coarse texture
Finishing	Accepts paint, stain, varnish well	Requires proper surface treatment (oily nature)
Moisture Content at Delivery	8–12% (kiln-dried)	8–12% (kiln-dried)

3. Compliance & Safety

- **Food Contact Safety:** Complies with LFGB and FDA standards when surface treated with food-grade oils/varnishes.
- **Formaldehyde Emission:** Class E1, compliant with EU standards.
- **Sustainability:** FSC® (Forest Stewardship Council) certified raw material available upon request.
- **Surface Treatment:** Food-safe oil or varnish (EN 71-3 compliant).
- **Packaging:** Protective shrink-wrap or carton box, export standard.

4. Recommended Applications

- **Beech :**
 - Indoor-use kitchen and serving accessories
 - Toys, kitchenware and lathe products
 - Cutting boards, handles, trivets, spatulas
 - Furniture frames and seating groups
 - Parquet, veneer and interior coverings
 - Chairs and curved furniture pieces
 - Doors, windows, plywood and laminated products
- **Iroko:**
 - Premium serving boards and handles
 - Kitchen products
 - Outdoor-capable accessories
 - Products requiring high durability against humidity
 - Outdoor furniture and garden sets
 - Ship decks and piers, parquet and flooring,
 - Door and window joinery, decorative coverings and panels,

5. Maintenance & Care

- Clean with mild soap and warm water.
- Do not place in dishwasher.
- Apply food-grade mineral oil or beeswax regularly to maintain protection.
- Avoid long exposure to water and direct sunlight.
- Periodically treat with food-safe oil to maintain appearance and durability.
- Avoid exposure to direct sunlight and high humidity.

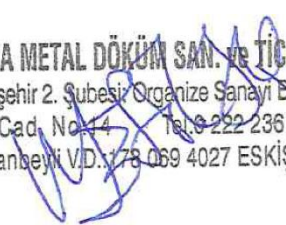
6. Packaging & Delivery

- **Moisture Content at Delivery:** 8–12% (kiln-dried)
- **Surface:** Sanded, ready for finishing or already coated (depending on product type)
- **Packaging:** Protective shrink-wrap or carton box, export standard

7. Notes

- Variations in color, texture, and grain are natural characteristics of solid wood.
- LAVA ensures high-quality finishing and compatibility with cast iron & enamel-coated cookware.
- All products are suitable for direct food contact and compatible with hot cookware.

Signed for and on behalf of:

On Behalf of the Exporter (LAVA)	
Date:	23.09.2025
Name and function:	Macit KESİKBAŞ – Board Member
Signature and stamp	 LAVA METAL DÖKÜM SAN. ve TİC. A.Ş. Eskişehir 2. Şubesi Organize Sanayi Bölgesi 28. Cad. No: 4 Tel: 0 222 236 84 69 Sultanbeyli V.D. No: 78 069 4027 ESKİŞEHİR

On Behalf of the Manufacturer (NATUREL WOOD)	
Date:	23.09.2025
Name and function:	Salih DİNDAR – General Manager
Signature and stamp	 NATUREL WOOD PAZARLAMA SAN. VE TİC. LTD. ŞTİ. Konya V.D. No: 630 046 8125 Konya Merkez Mahallesi / Kuma Etiler No: 52 Mahallesi / Kuma Çimni DÜZCE Tel: 0 336 085 26 91