



## AMERICAN WALNUT

JUGLANS NIGRA (JUGLANDACEAE)

### DESCRIPTION

The heartwood can be light grayish brown, dark chocolate or purplish black. The sapwood is whitish to yellowish brown, seldom stained or stained to match the heartwood. The slightly open grain is typically straight, but can be curly or wavy. The texture is usually coarse, but develops a lustrous patina in time. Burns (brufs), stamped and刨削刨 produce notable markings, curly and wavy figures.

### PROPERTIES

This hard, tough wood has moderate crushing and bending strength, low stiffness, and steam-bends well. It works well with machines and hand tools, with a moderate blunting effect. It generally planes well, but irregular grain can be tricky. It turns, carves, mortises, nails, screws, nails and paints well. Gluing is satisfactory. It stains and polishes easily to a high finish.

### SEASONING

The wood dries slowly and care must be taken to avoid degrade. This can include checking, iron staining, ring failures, heartrotting and collapse. There is a small movement in use.

### DURABILITY

American walnut heartwood is highly durable, resistant to decay and to preservative treatment. The sapwood is permeable for treatment, and can be vulnerable to the powder post beetle.

### TYPICAL USES

A prized cabinetmaking wood, it is also the chosen wood in the US for gunstocks and rifle butts. It is also used for quality furniture, architectural work, flooring, boatbuilding, musical instruments, turnery, carving, office furniture, kitchen cabinets, sporting goods and umbrella handles. It is dried for decorative veneers and is an important wood for making plywood. The tree also produces white nuts.



### Also called

AMERICAN BLACK WALNUT, EASTERN BLACK WALNUT, CURWOOD WALNUT, VIRGINIA WALNUT

### Grows

CANADA AND USA

TYPICAL HEIGHT: 70-100 FT (21-30 M) TRUNK DIAMETER: 3-17 IN (8-43 CM)

TYPICAL DRY WEIGHT: 40 LB/FT<sup>3</sup> (640 KG/CM<sup>3</sup>) SPECIFIC GRAVITY: .44

### Health risks

IRRITATION TO THE EYES AND SKIN

### DESCRIPTION

The heartwood varies in colour, but is typically grayish brown with irregular dark streaks. The sapwood is paler and clearly distinct from the heartwood. European walnut is normally straight-grained, but can be wavy. It has a coarse texture. A closely defined central core will sometimes produce beautifully figured wood. Walnut cracks, burr (brufs) and stamped figures can be very attractive.

### PROPERTIES

It has a high crushing strength, medium resistance to shock loads, medium bending strength, low stiffness, and very good steam-bending qualities. It works well with both machines and hand tools, and has a moderate blunting effect on cutting edges. The wood planes well and finishes cleanly. It turns, carves, nails, screws and nails well, and mortises, holes, nails, mortises and glues satisfactorily. Walnut stains very well, but ultraviolet light inhibitors in the finish are advised to prevent colour fade. The wood can be brought to an excellent polished finish.

### Also called...

NOYER FRONCH, MUMBAKH (COMMON), UNPAULY DIFFERENTIATED, ACCORDON, HÖRÖN, PERGAN, FRONCH, BLACK SEA, ETC.

### Grows

EUROPE, TURKEY, SOUTHWEST ASIA

TYPICAL HEIGHT: 100 FT (30 M) TRUNK DIAMETER: 3-17 IN (8-43 CM)

BUT CAN BE WIDER TYPICAL DRY WEIGHT: 40 LB/FT<sup>3</sup> (640 KG/CM<sup>3</sup>) SPECIFIC GRAVITY: .44

### Health risks

IRRITATION, IRRITATION TO NOSE, EYES AND THROAT, POSSIBLE NAUSEA, CANCER

## EUROPEAN WALNUT

JUGLANS REGIA (JUGLANDACEAE)

### SEASONING

The wood dries well but slowly. Heartrotting can occur in thicker stock if the drying is too fast. It exhibits medium movement in service.

### DURABILITY

The heartwood has moderate durability, whereas the sapwood is vulnerable to attack from the common furniture and powder post beetles. The sapwood is permeable for preservative treatment, but the heartwood is resistant.

### TYPICAL USES

Walnut is prized for cabinetwork and for gunstocks and rifle butts. It is used for quality furniture, office and book fittings, turnery, sports goods, carving, and similar trim in luxury cars. Figured wood is sliced into veneers for cabinetwork, marquetry and paneling. The tree also produces white nuts.



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# Wood Identification Handbook

**Michal Rosen-Zvi**



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## **Table of Contents Wood Identification Handbook**

1. Understanding the eBook Wood Identification Handbook
  - The Rise of Digital Reading Wood Identification Handbook
  - Advantages of eBooks Over Traditional Books
2. Identifying Wood Identification Handbook
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Wood Identification Handbook
  - User-Friendly Interface
4. Exploring eBook Recommendations from Wood Identification Handbook
  - Personalized Recommendations
  - Wood Identification Handbook User Reviews and Ratings
  - Wood Identification Handbook and Bestseller Lists
5. Accessing Wood Identification Handbook Free and Paid eBooks
  - Wood Identification Handbook Public Domain eBooks
  - Wood Identification Handbook eBook Subscription Services
  - Wood Identification Handbook Budget-Friendly Options

6. Navigating Wood Identification Handbook eBook Formats
  - ePub, PDF, MOBI, and More
  - Wood Identification Handbook Compatibility with Devices
  - Wood Identification Handbook Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Wood Identification Handbook
  - Highlighting and Note-Taking Wood Identification Handbook
  - Interactive Elements Wood Identification Handbook
8. Staying Engaged with Wood Identification Handbook
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Wood Identification Handbook
9. Balancing eBooks and Physical Books Wood Identification Handbook
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Wood Identification Handbook
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Wood Identification Handbook
  - Setting Reading Goals Wood Identification Handbook
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Wood Identification Handbook
  - Fact-Checking eBook Content of Wood Identification Handbook
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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