



CARBOLYZ
WHOLE NEW ENERGY

SILVICULTURE

Complete Guide to Biomass and Wood Products

This exhaustive guide explores the versatility of wood and biomass, from raw material to energy and industrial solutions. Discover how products such as pellets, briquettes, firewood, charcoals, and wood chips offer renewable and ecological alternatives for a sustainable future.

Introduction

Welcome to our comprehensive catalogue of forest biomass products. In the following pages, you will have the opportunity to explore our wide and diverse range of products. From raw timber in its most natural state to processed wood chips and high-efficiency pellets, each item has been carefully selected and is presented organised by category, including its respective reference codes to facilitate identification and use.

This guide is not merely a list, but an invitation to discover the renewable and sustainable potential offered by timber and biomass as sources of energy and materials. We are dedicated to providing ecological alternatives that contribute to a greener and more efficient future.



Categories

In this section, we will explore the main categories of biomass and wood products we offer, highlighting their efficiency, sustainability, and versatility for various energy and industrial applications.

1. Raw Timber

Includes everything from logs to sawn timber, forming the base for construction, furniture manufacturing, and energy processes.

2. Charcoal

Traditional charcoal and briquettes, ideal for industrial use, barbecues, and slow-burning heat, available with or without FSC certification.

3. Firewood

Various formats and species for domestic heating and ovens, ensuring efficient combustion and optimal calorific value.

4. Pellets

High-density fuel made from residual biomass, very efficient and clean for stoves and boilers.

5. Wood Briquettes

Pressed wood by-products that offer compact, long-burning energy for fireplaces and boilers.

6. Wood Chips

Uniform wood fragments, used as fuel in large-scale biomass boilers and industrial processes.

These categories reaffirm our commitment to sustainability, offering solutions that minimise environmental impact and promote the circular economy.

1. Raw Timber

Raw timber is the foundation of our offering, representing the most natural form of this renewable resource. Sourced from sustainably managed forests, we provide products that are the essential raw material for a wide range of industrial and energy applications, guaranteeing quality and traceability from origin.

1.1 Roundwood

Roundwood refers to felled tree trunks, unprocessed beyond branch removal and cutting to specific dimensions. It is the most elementary form of timber and is primarily used for the production of sawn timber, veneers, paper pulp, and as fuel in large-scale industrial processes or biomass.



1.2 Sawn Timber

Sawn timber, also known as dimensioned or milled timber, is obtained by cutting roundwood into pieces of predetermined shapes and sizes (planks, beams, battens). It is fundamental in construction, carpentry, furniture manufacturing, and packaging, offering structural strength and versatility.





1. Raw Timber

1.1 Roundwood

- SIVI-MABR-MATOR-01 Pine
- SIVI-MABR-MATOR-02 Eucalyptus
- SIVI-MABR-MATOR-03 Teak
- SIVI-MABR-MATOR-04 Cedar
- SIVI-MABR-MATOR-05 Oak
- SIVI-MABR-MATOR-06 Saman
- SIVI-MABR-MATOR-07 Ipe
- SIVI-MABR-MATOR-08 Guayacan
- SIVI-MABR-MATOR-09 Palo Santo

1.2 Sawn Timber

- SIVI-MABR-MASERR-01 Pine
- SIVI-MABR-MASERR-02 Eucalyptus
- SIVI-MABR-MASERR-03 Teak
- SIVI-MABR-MASERR-04 Cedar



2. Vegetable Charcoals

Our selection of vegetable charcoals offers efficient and sustainable solutions for various applications, from industry to domestic use. Produced through the controlled carbonisation of wood, we guarantee high-performance products with excellent calorific value and low environmental impact.



2.1 FSC Certified

High-quality charcoal sourced from responsibly managed forests, ensuring sustainability and traceability. Ideal for markets that value environmental commitment and certification.



2.2 Non-FSC Certified

We offer vegetable charcoal of excellent quality and performance, without FSC certification. Perfect for industrial and domestic uses where efficiency and calorific value are the priority, maintaining a competitive price.



2.3 Charcoal Briquettes

Produced from pressed charcoal fines, our briquettes offer more uniform, longer-lasting combustion and consistent heat. They are an efficient solution for barbecues, stoves, or industrial processes requiring prolonged energy.

2 - Charcoal

2.1 FSC Certified

- SIVI-CARVE-CER-FSC-01 Eucalyptus
- SIVI-CARVE-CER-FSC-02 Acacia

2.2 Non-FSC Certified

- SIVI-CARVE-NÄOCER-FSC-01 Marabú
- SIVI-CARVE-NÄOCER-FSC-02 Quebracho Blanco
- SIVI-CARVE-NÄOCER-FSC-03 Guayacán
- SIVI-CARVE-NÄOCER-FSC-04 Palo Santo
- SIVI-CARVE-NÄOCER-FSC-05 Eucalyptus
- SIVI-CARVE-NÄOCER-FSC-06 Acacia
- SIVI-CARVE-NÄOCER-FSC-07 Ayin

2.3 Charcoal Briquettes

- SIVI-CAVEG-BRI-CARVE-01 Cube Shape (Coconut Shell)
- SIVI-CAVEG-BRI-CARVE-02 Hexagonal Shape (Sawdust)
- SIVI-CAVEG-BRI-CARVE-03 Pillow Shape (Various Qualities)
- SIVI-CAVEG-BRI-CARVE-04 Other Formats

3. Firewood

Our selection of firewood is designed to provide efficient and consistent heat for homes, restaurants, and bakeries, with a focus on sustainability and performance. We offer a variety of species adapted to different combustion needs and calorific values, ensuring clean and optimal burning.



3.1 Various 01

This subcategory includes firewood of various species and formats, carefully selected for its excellent calorific value and low moisture content. This ensures prolonged and efficient combustion, ideal for domestic fireplaces, high-performance stoves, and traditional ovens that require a reliable heat source.

3 - Firewood

3.1 Various 01

SIVI-LEN-V01-EUC-01

Eucalyptus

SIVI-LEN-V01-QRO-02

Red Quebracho

SIVI-LEN-V01-AZI-03

Holm Oak

SIVI-LEN-V01-SOB-04

Cork Oak

SIVI-LEN-V01-MIX-05

Mixes

4. Pellets

Pellets are a high-density granulated biofuel, produced from residual biomass such as sawdust and wood shavings, through a compression process without additives. They are a clean and efficient energy solution, ideal for modern stoves, boilers, and heating systems, notable for their high calorific value and minimal environmental impact.



4.1 Various 01

Our "Various 01" pellets group together different types of pellets that meet high quality standards, ensuring optimal combustion and superior energy performance. They are characterised by their uniformity, low moisture and ash content, and are suitable for a wide range of biomass equipment.



4 - Pellets

4.1 Various 02

SIVI-PELL-V02-PNH-01

Pine 6mm

SIVI-PELL-V02-PNH-02

Pine 6mm

SIVI-PELL-V02-ROB-03

Oak 6mm

SIVI-PELL-V02-ROB-04

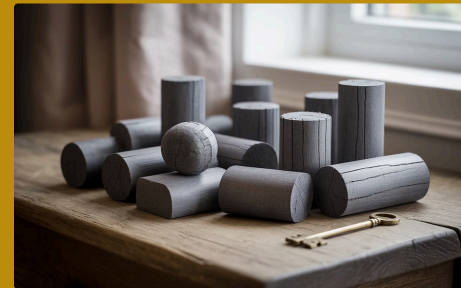
Oak 8mm

SIVI-PELL-V02-CGI-05

Sunflower Hull 8mm

5. Wood Briquettes

Wood briquettes represent an innovative and ecological energy solution. Produced from wood by-products such as sawdust and wood shavings, pressed at high pressure without binders, they offer clean, efficient, and high calorific combustion. They are a sustainable alternative to traditional firewood, ideal for stoves, boilers, and ovens.



5.1 Miscellaneous 03

This sub-category encompasses wood briquettes of different compositions and formats, adapted for various applications. They stand out for their high density, low moisture content, and minimal ash emissions, ensuring superior energy performance and prolonged, stable combustion. They are perfect for those seeking efficiency and sustainability in their heating source.

5 - Wood Briquettes

5.1 Various 03

SIVI-BRMA-V03-FRED-01

Round Format (Cylinder)

SIVI-BRMA-V03-FQUA-02

Square Format (Parallelepiped with hole)

SIVI-BRMA-V03-FRUF-03

Rectangular "RUF" Format

SIVI-BRMA-V03-FRE-04

Octagonal Format (With hole)

6. Wood Chips

Wood chips are a granulated biofuel obtained from forest residues, timber industry by-products or wood from energy crops. They represent a renewable and sustainable energy source, ideal for centralised heating systems, industrial boilers and cogeneration plants, offering efficient combustion and low environmental impact.



6.1 Various 04

In this category, we group wood chips of various granulometries and origins, carefully selected to ensure homogeneous quality and optimal energy performance. They are ideal for industrial applications requiring a constant supply and controlled combustion, adapting to the specifications of each piece of equipment.



6 - Wood Chips

6.1 Various 04

SIVI-ESLH-V04-PNH-01

Pine

SIVI-ESLH-V04-EUC-02

Eucalyptus

International Logistics

Efficiency in distribution is key to delivering our biomass and timber products anywhere in the world. Our robust global logistics network ensures that every shipment is managed with the utmost precision, from origin to final destination.

Multimodal Transport

We utilise a strategic combination of land, sea, and air transport to ensure efficient and punctual deliveries, adapting to the specific needs of each product and destination.

Storage and Management

Our strategically located storage facilities ensure the optimal preservation of products, while advanced inventory management guarantees availability and minimises waiting times.

Customs and Compliance

We have experts in international regulations and customs, facilitating all necessary procedures for seamless import and export, complying with all global regulations.

Sustainability in the Supply Chain

We are committed to sustainable logistics practices, optimising routes and modes of transport to reduce our carbon footprint and promote an environmentally friendly flow of products.

We strive to build a robust and adaptable supply chain, capable of responding to the demands of the global market and our customers with agility and responsibility.

Certifications and Guarantees

At our company, quality and sustainability are not just keywords, but fundamental pillars of our commitment. Every biomass and wood product we commercialise is backed by rigorous control processes and globally recognised certifications, ensuring its responsible provenance and optimal performance.

FSC and PEFC

We guarantee that our wood products come from sustainably managed forests, promoting environmental conservation, social and economic viability.

Quality Standards

We comply with international standards such as ISO 9001 for quality management and ISO 14001 for environmental management, ensuring excellence in our processes.

ENplus A1/A2 Certification

Our wood pellets hold ENplus A1/A2 certification, which ensures highly efficient combustion, low ash content and minimal emissions.

Traceability and Origin

We offer full traceability of our products, from their origin in the forest to the final consumer, guaranteeing the authenticity and legality of each batch.

These certifications are our promise of a greener future and a transparent supply chain, offering our customers the confidence to acquire products of the highest quality and environmental responsibility.

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Our international team of specialists is at your disposal to advise you on all your import and export needs for **Forestry** products.

Certified
Sustainable Forest
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