



A cornerstone of transportation

EUROBLOCK PALLET BLOCKS



The export of wood pallets and wood packaging requires heat treatment acc. to IPPC standards (ISPM 15). Being a “non solid wood” product, however, EUROBLOCK pallet blocks do not need to be dried or heat treated any further.



Innovation meets tradition

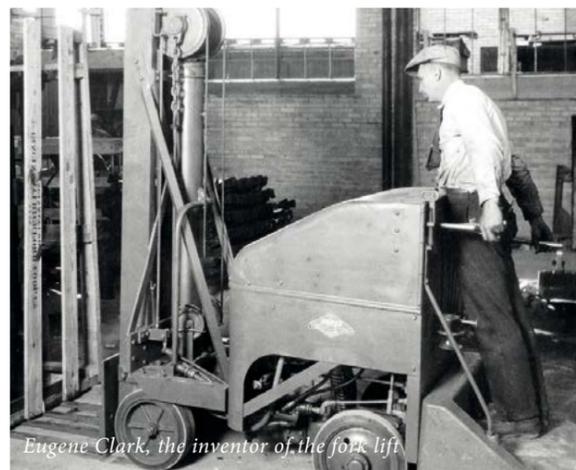
EUROBLOCK. A partner and driving force for the European pallet industry

Like no other wood product, the EUROBLOCK pallet block symbolises the intelligent and efficient handling of valuable resources.

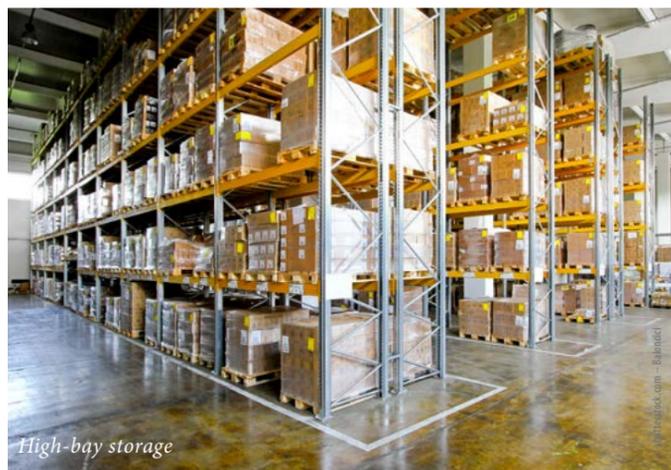
The partnership between Pfeifer Timber (DE) and Presswood International (NL) combines decades of know-how, extensive customer and service orientation, flexibility, product diversity as well as powerful supply capability to a success story of more than 20 years.

We consistently and exclusively focus on the requirements and challenges of the market participants. We see ourselves as partners, companions and a driving force. This is how EUROBLOCK Verpackungsholz GmbH has become a reliable industry player and market leader in the European timber packaging and pallet industry.

A cornerstone of logistics that **MOVES THE WORLD**



Eugene Clark, the inventor of the fork lift



High-bay storage

Modern goods logistics would be inconceivable without pallets.

The combination of fork lift and wooden load carrier that took off in the middle of the 1920s heralded in a revolution in goods logistics that characterises all transport processes to this day. The time saved when loading rail cars yielded a corresponding decrease in transport costs which, in turn, served as an unprecedented catalyst for the global economic development in the 20th century.

The story of the composite block started in the 1970s. Inventive entrepreneur and pioneer Anton Heggenstaller

developed a groundbreaking idea to react to a supply bottleneck for square timber used in the production of solid pallet blocks: In Unterbernbach (D) he developed a pressing method that allowed for the production of composite blocks from supposed waste: wood shavings that were available in abundance. The industry pioneer succeeded in making this innovative product competitive. Continuous development, idealism and tenacity created a superior alternative to the conventional wood blocks. Today, some ten billion pallets are being used all over the world.

1945

CHEP – the world's first pallet exchange or pallet pool system (which is still in use) is created in Australia.

1961

The largest European railway corporations sign a contract for the creation of an exchangeable pallet (the Europallet).

1976

Anton Heggenstaller invents composite pallet blocks, sustainably characterising the pallet's further development.

1990

Presswood production start at the Ermelo/Netherlands location

1994

The EPAL (European Pallet Association), the world's most successful open load carrier pooling system, is founded.

01/01/1998

Euroblock Verpackungsholz GmbH is founded with the purpose of selling packaging timber and composite pallet blocks.

2000 – 2008

Continuous development: Focussing of the EUROBLOCK plants in Unterbernbach, Uelzen and Ermelo to the respectively optimum range of products and optimised logistics processes; consistent internationalisation of Sales.

2009

The fully integrated EUROBLOCK production location in Lauterbach is taken into operation as part of the expansion strategy. It's the most modern 'block factory' in the world.

2017

Since 1998 Euroblock's sales figures have almost tripled: from 590,000 m³ (incl. packaging timber) in 1998 to 1,475,000 m³ (incl. packaging timber) in 2017.

2018

Euroblock has long become the leading supplier of the European packaging and pallet industry. Thanks to a production capacity of 1 million m³ of pallet blocks annually (plus 475,000 m³ of packaging timber) and state-of-the-art logistics processes, customers in the core markets of Europe and around the world are supplied in a just-in-time fashion.



With their inventions, pioneers move the world: The fork lift, the Europallet and the composite pallet block



Our constants are
**RELIABILITY &
 SUPPLY CAPABILITY**



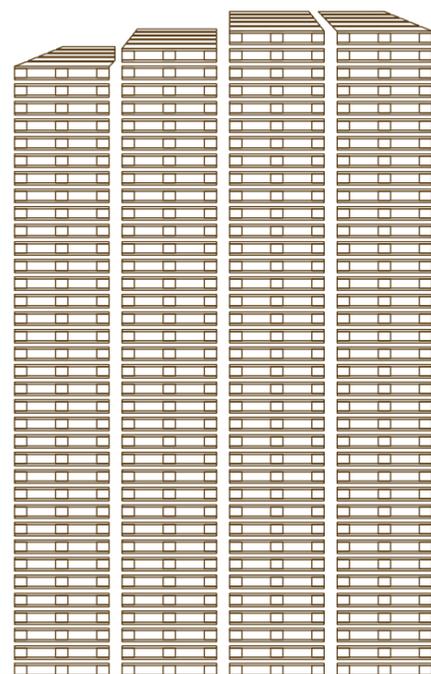
With four production plants and six sales offices EUROBLOCK covers a pallet block market share of more than 50 %. Thanks to large production capacities and direct access to raw materials, the company guarantees maximum supply reliability. Thanks to a sophisticated logistics system, we maintain a strong supply chain.

STRENGTH IN PRODUCTION AND INTERNATIONAL DISTRIBUTION

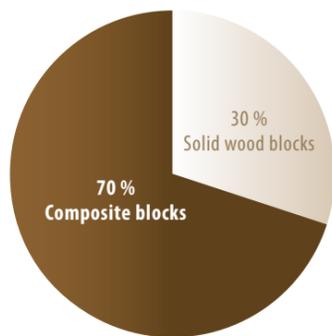
Four production locations in Germany and the Netherlands as well as six sales offices guarantee continuous supply and supply security in Europe and overseas.

ANNUAL PRODUCTION OF 1.3 MILLION PALLET BLOCKS

145 MILLION PALLETS



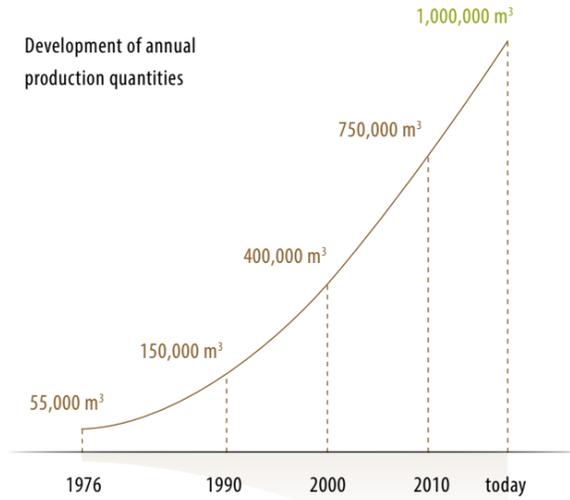
= 1,000,000 pallets



Composite pallet blocks are used in approx. **70 %** of all pallets in Germany.

MILESTONES OF A SUCCESS STORY

Development of annual production quantities



UNTERBERNBACH (D)

Pallet blocks: 205,000 m³/year
 Cutting: 930,000 solid cubic metres of round timber/year
 Sawn timber products: 560,000 m³/year
 Drying capacity: 400,000 m³/year
 Pellets: 150,000 t/year
 Power station: 80 million kWh of power



UELZEN (D)

Pallet blocks: 250,000 m³/year
 Cutting: 600,000 solid cubic metres of round timber/year
 Sawn timber products: 360,000 m³/year
 Power station: 55 million kWh of power

LAUTERBACH (D)

Pallet blocks: 200,000 m³/year
 Cutting: 1,000,000 solid cubic metres of round timber/year
 Sawn timber products: 600,000 m³/year
 Drying capacity: 300,000 m³/year
 Pellets: 70,000 t/year
 Power station: 75 million kWh of power



ERMELE (NL)

Pallet blocks made from recycled wood: 380,000 m³/year

We think sustainably

RESIDUAL MATERIAL TURNED INTO A RESOURCE

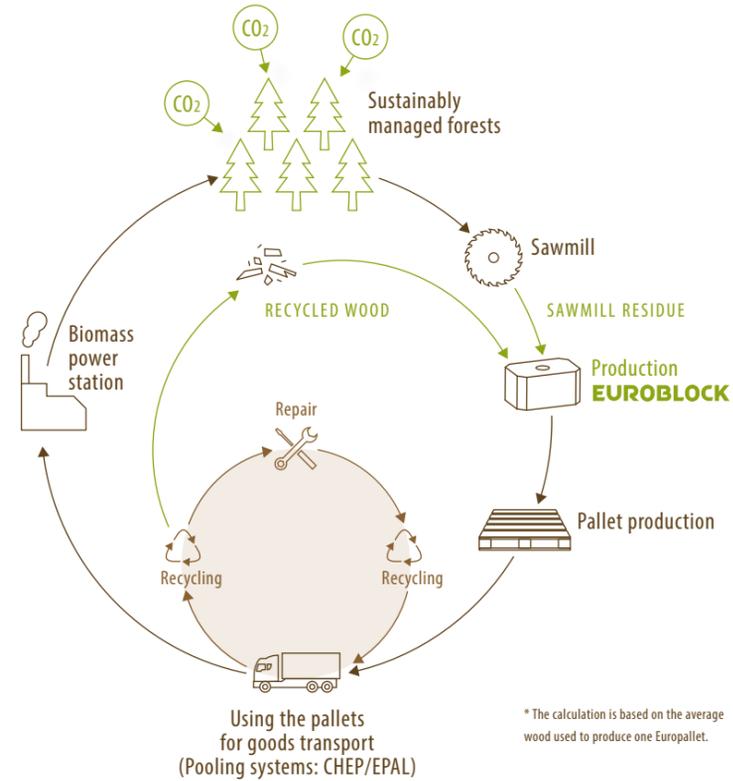
A top product with the future in mind

EUROBLOCK stands for the careful use of natural resources. Utilising residual material from wood processing and using recycled wood complement our existing production cycles with highly efficient cycles of use. The round timber used in our sawmills is exclusively sourced from sustainably managed forests. In the spirit of cascaded utilisation we do not log additional trees to produce composite blocks but use accrued materials most efficiently. This guarantees that wood as a renewable resource remains available to future generations.

EUROBLOCK pallet blocks are made from **100 % sawmill residue** accrued in our own sawmills (Unterbernbach, Lauterbach and Uelzen/D) **as well as recycled wood** (Ermelo/NL).

THAT CRUCIAL CO₂ ADVANTAGE

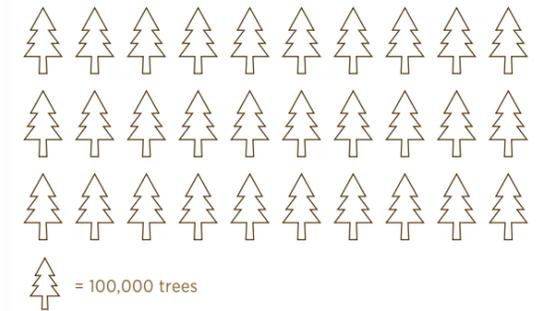
By using 1,000 Europallets, you improve your CO₂ balance by 27.5 tons.*



*The calculation is based on the average wood used to produce one Europallet.

THIS IS HOW SUSTAINABILITY IS DONE

Thanks to the use of sawmill residue and recycled wood to produce more than 1 billion pallet blocks per year, we save approx. 2.5 million solid cubic metres of wood annually which equals more than 3 million trees.



Cutting 1 solid cubic metre of timber generates 0.4 m³ of residual wood (= 40 %). At EUROBLOCK, this is entirely used to produce pallet blocks. This means that the entire tree is being used.

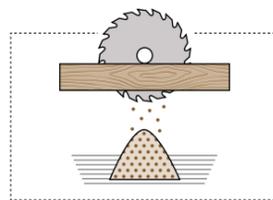


EUROBLOCK PRODUCTION

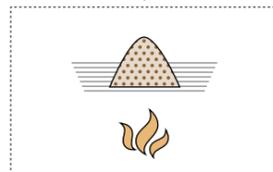


Pallet blocks made from sawmill residue

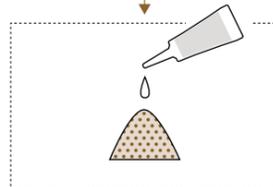
SAWMILL & HAMMER MILL
Cutting round timber and subsequent chipping of wood chips in the hammer mill to reach exactly defined size



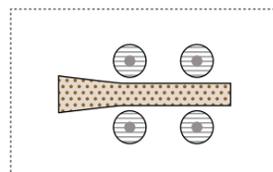
DRYER
Technical drying to desired final moisture content of less than 5 %



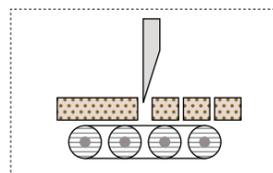
GLUE ADDITION
Mixing of coarse and fine chips, addition of glue and hardener



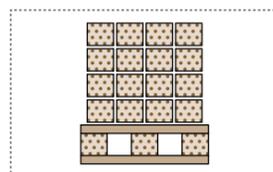
PRESS
Pressing material to an endless strand



SAW
Cuts strand to desired block height, followed by size accuracy and density check of every single block

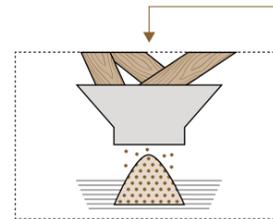


PALLETISATION
Cooling, stacking and packaging of blocks in protective wrap

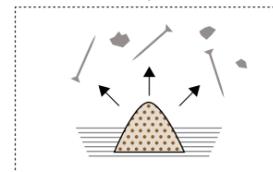


Pallet blocks made from recycled wood

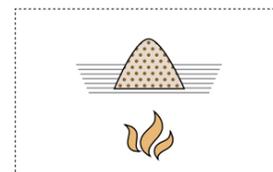
CHIPPING
The delivered recycled wood is pre-sorted and shredded to the desired chip size



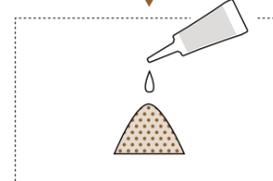
FOREIGN MATERIAL REMOVAL
All foreign material and non-wood content is removed by means of industrial scanners and magnet technology



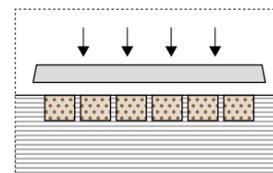
DRYER
Technical drying to desired final moisture content of less than 5 %



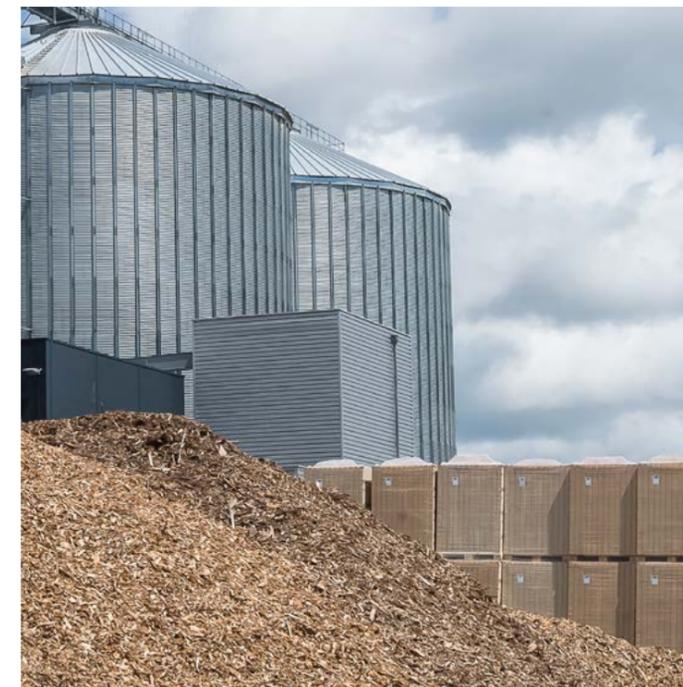
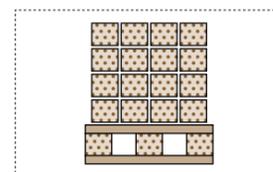
GLUE ADDITION
Mixing of coarse and fine chips, addition of glue and hardener



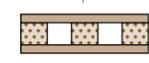
PRESS
Pressing the material using dies and a moulding cycle process, followed by size accuracy and density check of every single block



PALLETISATION
Cooling, stacking and packaging of blocks in protective wrap



THE RETURN OF THE PALLET
Mostly used pallets and those not suitable for repair are integrated into the recycling process. They are turned into new pallet blocks.



The strengths of EUROBLOCK FOCUS ON THE PRODUCT

Woodchips from the processing of natural softwood and processed recycled wood chips serve as the solid basis of EUROBLOCK composite blocks. Both are pressed at high pressure and temperature. This yields a high-quality homogeneous wood material that can be further processed in various dimensions.

Composite blocks offer crucial advantages over solid wood or plastic blocks – in both technical and economic terms.



Sustainability

- > Environmentally friendly wood product
- > CFC free
- > Helps preserve wood resources
- > No chemical wood protection required
- > After its use, the product can be recycled or thermally utilised in authorised plants (Waste wood category A1)

Material advantages

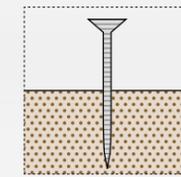
- > Standardised quality thanks to sophisticated industrial production
- > High compressive strength
- > Constantly high gross density, no moisture expansion
- > High nail retention
- > Low susceptibility to repairs, longer pallet service life
- > No crack formation

Moisture proof and shape retention

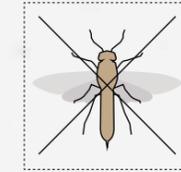
- > Residual humidity after production is about 10 %
- > Size accuracy at constant moisture content
- > Shape retention at temperature fluctuation
- > Waterproof glueing guarantees constant pallet quality, no matter if used indoors or outdoors
- > Resistant against environmental influences
- > Accurate pallet sizes

Advantages compared to solid wood

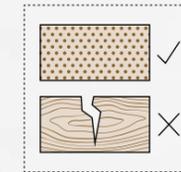
- > “Non solid wood” material in the sense of international regulations for the treatment of wood packaging – ISPM 15
- > No SIREX treatment required
- > 100 % mould or insect infestation resistant due to low material moisture content. Pallet always looks clean
- > High, permanent availability



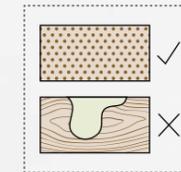
HIGH NAIL RETENTION



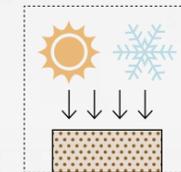
NO INSECT INFESTATION (NO SIREX TREATMENT REQUIRED)



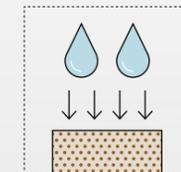
NO CRACK FORMATION



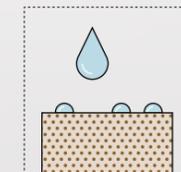
NO MOULD INFESTATION



SHAPE RETENTION AT TEMPERATURE FLUCTUATION



SIZE ACCURACY AT CONSTANT MOISTURE CONTENT



WATERPROOF GLUEING



CAN BE RECYCLED OR THERMALLY UTILISED IN AUTHORISED PLANTS AFTER USE (WASTE WOOD CATEGORY A1)

Internal & external quality management
**GUARANTEED
 CONTROL**

Thoroughly tested

Euroblock pallet blocks are produced acc. to the most stringent quality criteria. State-of-the-art industrial production guarantees constantly high quality standards. Apart from permanent internal quality control in our internal laboratories, our composite pallet blocks are SGS approved. The SGS Group is among the leading product testing companies in the world.

Defined internal quality and process monitoring systems

- > Online measurement of chip quantities used and mixing ratio monitoring
- > Ongoing online moisture monitoring
- > Chip size and structure monitoring
- > Permanent monitoring of glue quantities used
- > Press parameter monitoring
- > 100 % in-line verification of weight and height of the blocks after cutting
- > Visual monitoring during cooling
- > Internal monitoring of density, nail retention, water absorption, moisture expansion and cross tension in our internal laboratories

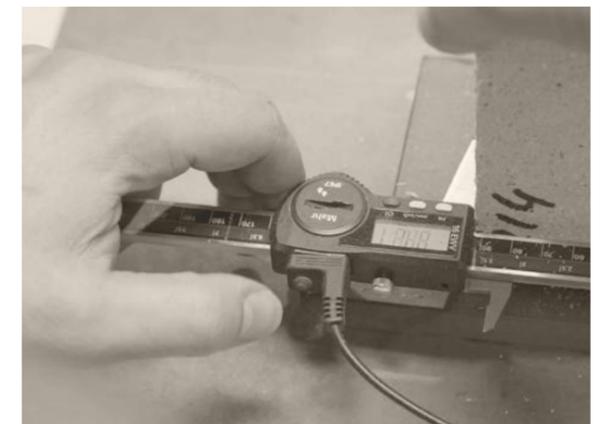
EPAL licensed

The European Pallet Association's (EPAL) seal allows the pallets to be used in Europe's largest pallet pool and guarantees the load carriers' quality. Besides EPAL EUROBLOCK pallet blocks are being used in several large rental pools and by large end users.

SGS controlled

- > Density
- > Nail retention
- > Water absorption
- > Moisture expansion
- > Cross tension

SGS



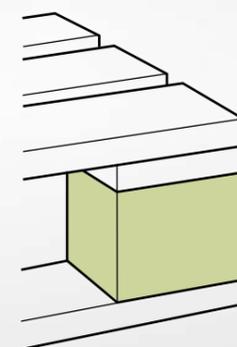
The customer's wishes are our top priority
**IN MANY
 DIMENSIONS**



Square pallet blocks

LENGTH X WIDTH in mm	STANDARD HEIGHT in mm
100 x 145	78 / 75 / 90 / 95 / 100
145 x 145	78 / 90 / 100
(EUR) / EPAL	78 Reparaturklotz mit Punkt
70 x 70	70 / 75 / 78 / 82 / 85 / 90 / 95
75 x 75	75 / 78 / 85 / 90 / 95 / 100
73 x 90	75 / 90
75 x 95	75 / 78 / 90 / 95
75 x 115	78 / 75 / 90 / 95
75 x 133	78 / 75 / 90 / 95
90 x 90	70 / 75 / 78 / 85 / 90 / 95 / 100
78 x 98	90 / 95
78 x 118	90 / 95
78 x 133	90 / 95
90 x 135	70 / 75 / 78 / 85 / 90 / 95 / 100
93 x 115	78
95 x 95	75 / 78 / 90 / 95 / 100
95 x 138	65 / 78 / 90 / 95
95 x 160	78 / 95

EUROBLOCK products are as diverse as the requirements of the transport and packaging industry. Their unique production method makes EUROBLOCK blocks singularly flexible. Together with more than 40 years of industry experience EUROBLOCK is capable of individually and precisely react to every challenge without neglecting quality and sustainability.



Correctly reading dimensions

78 x 98 x 78
 Length Width Height

CP pallet blocks



LENGTH X WIDTH in mm	STANDARD HEIGHT in mm
78 x 98	78 / 75
78 x 118	78 / 75
78 x 133	78 / 75

Market leader EUROBLOCK INTERNATIONAL PRESENCE

Based on four production locations in Germany and the Netherlands EUROBLOCK composite blocks have been convincing customers with their flexibility and various dimensions for decades. Our international production and sales network as well as permanent access to the raw material guarantee maximum supply reliability. EUROBLOCK has always been characterised by the capability of swiftly and flexibly reacting to even the toughest challenges.

1,300 customers in 49 countries (2017)



REFERENCES AND LICENCES

EUROBLOCK pallet blocks meet the toughest quality standards and are regularly checked for their stability and resilience in industrial use by means of internal and external test systems. For many years, they have been successfully used in open and closed pallet pools as well as the goods management departments or large companies.

A selection of our references Export regulations

CHEMICAL INDUSTRY:

BASF, Bayer, Exxon Mobile, Merck, Wacker ...

AUTOMOTIVE INDUSTRY:

Audi, BMW, Continental, Mercedes, Schäffler, VW ...

ELECTRONICS INDUSTRY:

Bosch, Osram ...

PAPER INDUSTRY:

Mayr-Melnhof, Sappi ...

FOOD &

BEVERAGE INDUSTRY:

Migros, Nestlé, Tetra-Pack, Unilever ...

EUROBLOCK pallet blocks are “non solid wood” products and do not have to be specially treated.

Licences

UIC / EPAL

APME

GLAS

CHEP



The base material for the production of pallet blocks is sourced from sustainable forestry. All blocks are PEFC certified. PEFC is a transparent and independent system to guarantee sustainable forestry, making it an international “forest test certificate”. PEFC stands for “Programme for the Endorsement of Forest Certification Schemes”.



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