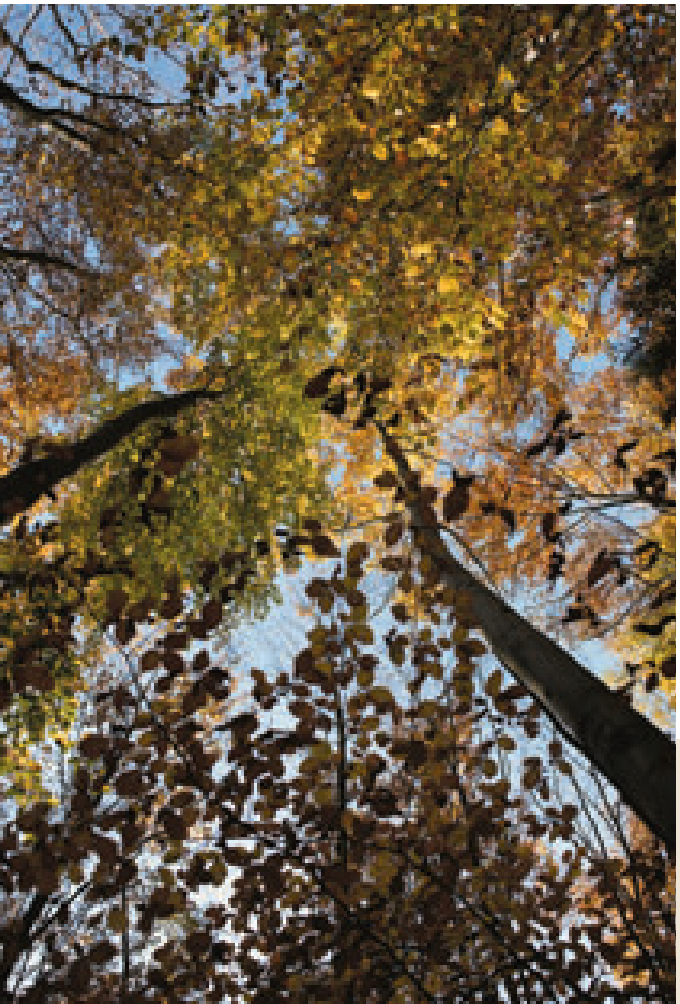
WE'RE HELPING WOOD ... TO GET TO YOU

Based in the Czech Republic, ALLWOOD, a.s. is a business supplying the finest quality timber products. The company is a wholly owned subsidiary of CE WOOD.a.s. which offers a wide range of products made of wood meeting the exacting standards of valued customers in a variety of market sectors. Thanks to its close co-operation with the forestry and wood-working industries, Allwood serves as a direct link between these industries and end users, to whom it offers a comprehensive service in the supply and sale of round wood, sawn wood, block boards, plywood and other specialized products.

ALLWOOD is a dynamic business having developed growth in sales volume resulting in current annual sales turnover exceeding 3 billion CZK. The company's share in the round wood market is approximately 14 per cent of the total volume of 15 million cubic metres of wood cut in the Czech Republic. The company's employees are professionals in the specialized fields of forestry, woodworking, round wood, sawn wood and other wood-based products. Business activities extend beyond the borders of the Czech Republic with products distributed to numerous export markets not only within Europe but also in non-European countries. Clients range from huge multi-nationals to smaller specialist concerns and also into the DIY sector. ALLWOOD strives to be as close as possible to its customers both in the Czech Republic and abroad – its business representatives are available to offer their expertise directly at your place of business. Alternately, prospective clients are welcome to visit us in any of our manufacturing locations and sales offices.

ALLWOOD, a.s, employs over 400 employees, who work hard to uphold the company's vision and values based on customers' needs. The aim of the business activities of ALLWOOD, a.s. is to offer a diverse range of products and maintain quality standards which satisfactory even to the most demanding of customers. The company's goal is to provide customers with a fast and reliable service with the maximum efficiency. The company's service, however, is not aimed solely at selling its products; it is ready to provide appropriate customer care before and after the sale in order to enable its customers to use wood in the way which this unique raw material deserves.



The company is:

- one of the largest organisations involved in round wood
- a market leader in the supply of a wide range of sawn wood
- a part of the forestry and woodworking holding of CE WOOD, a.s.
- a traditional and reliable partner of woodworking companies

The company actively encourages responsible management of woods and forests and thoughtful processing of raw wood due to the unique character of this material. ALLWOOD, a.s. participates in the certification scheme of PEFC, C- o-C forest management standards. The company is a holder of the ISO 9001:2:2000 quality management certificate, which is a guarantee of its continued effort to improve its services.
The company's mission is to give the owners of woods and forests the chance to participate in the processing of the wood, as well as to guarantee that the wood production is processed in a responsible and sensible manner. With respect to customers, the company's goal is to find suitable solutions to their demands by offering a wide range of materials made from wood.

ALLWOOD

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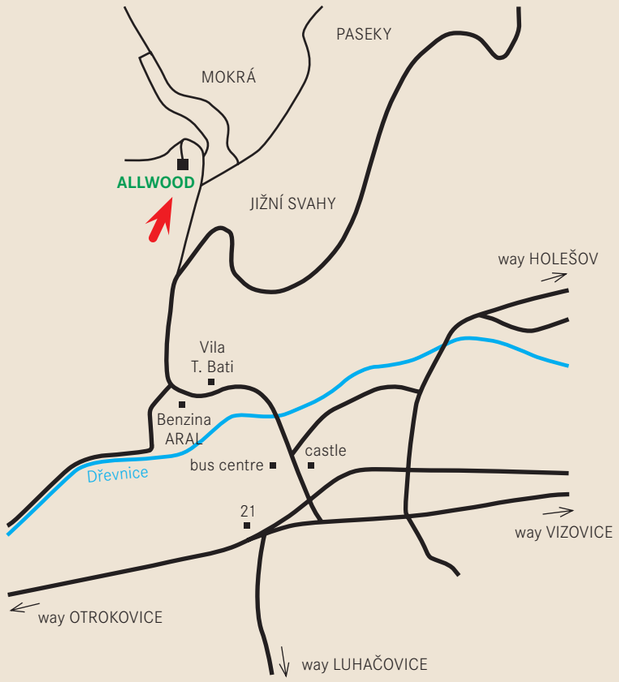
The headquarters of ALLWOOD, a.s. is in Zlín. The main office is located in the newly reconstructed villa of Mr. Hlavnička, a close friend of Tomáš Baťa. The reconstruction was carried out in 1999 on the basis of the original designs by architect Karfík.



BOARD OF COMPANY:

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vice president
Ing. František Černý

vice director
Ing. Daniel Szórád, Ph.D.

member of the board
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Ing. Václav Šebek

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WHATEVER WE DO ... WE DO IT FOR YOU

Our business activities allow you to obtain exactly the product you need. We are able to supply raw trees in whole lengths, round wood for special uses, sawn wood, plywood, block boards, composite materials combining wood and plastic, fire logs and loose bark for garden use.

The company's business activities include:

THE PURCHASE OF RAW WOOD ON OFFER

We buy a wide range of round wood from forest owners and wood-cutting companies. We also provide professional forest management by means of taking care of the sale of:

- an entire area of forest
- standing trees
- cut trees ("at-the-stump-sale")
- wood from a loading area
- wood by delivery to the company's warehouses or directly to the processing plant.

THE SALE OF RAW WOOD AND CHIPS, SAWDUST AND BARK

- sale of round wood directly from forests or the company's warehouses
- auctions of wood of special quality

THE SALE OF SAWN WOOD AND OTHER PRODUCTS

- a wide range of products of various qualities
- deliveries for all categories of customers

The specific needs and requirements of customers are fully respected in all of the company's business activities. There is a complete offer of services including professional and technical assistance. In all types of sale, we provide an independent and professional take-over of wood, and assess the quality according to the rules of business with wooden products in harmony with the valid legal regulations and quality demands.

Thanks to our cooperation with numerous forest owners and CE WOOD, the largest forestry company in the Czech Republic, we are able to supply the widest possible range of round wood. Our own technical capacities in the warehouses allow us to prepare high quality deliveries of specific products requested by customers.

The co-operation with certain of the major woodworking companies makes it possible to arrange further processing of round wood into good-quality sawn wood, plywood, block boards, glued scantings, and other products.

STRUCTURE OF THE COMPANY

Forest management

CE WOOD
HANUŠOVICKÁ LESNÍ
FORESTA WOOD

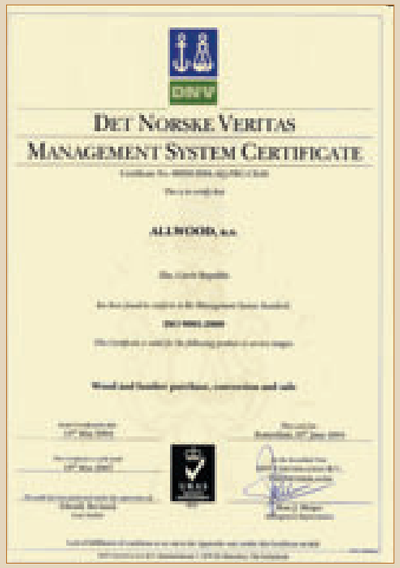
Business activities

ALLWOOD
SILVACO

Woodworking industry

BESKYDSKÉ PILY
JAVOŘICE
PRAGUE POLYEDR
PLOMA
FEP

CERTIFICATIONS AND MEMBERSHIPS IN ASSOCIATIONS: PEFC, ISO, ČAPLH



OUR PRODUCTS

Wood and wood-based products products have enjoyed a growing popularity with many customers, mainly thanks to its multiple purposes and uses. The business activities of ALLWOOD, a.s. are aimed at meeting customers' needs when using wood and other wood-based products.

ALLWOOD, a.s. supplies the complete ASSORTMENT OF RAW WOOD of all types of commercially grown trees in the Czech Republic. The country boasts the widest range of tree types in Europe. Each year, ALLWOOD, a.s. supplies over two million cubic metres of raw wood to its customers.

However, it is not only raw wood which the company offers: a significant, globally marketed commodity with a wide range of use consists of various ASSORTMENTS OF SAWN WOOD. ALLWOOD, a.s. supplies all major categories of sawn wood from spruce, pine, larch, beech, oak and other trees suitable for this kind of processing and use. The annual volume of sale exceeds 300 000 cubic metres of sawn wood.

Another product is CHIPS, SAWDUST AND BARK which covers such bio-material as chips, bark, and sawdust, used either for furher processing or a direct consumption.

A	**RAW WOOD**				
		Quality Class	Usage and Applications		
	wood from coniferous trees	I.	resonant logs, logs for the production of sliced veneer		
		II.	logs for the production of sliced veneer, other special purpose logs		
	spruce **pine** **larch**	III.	logs for saw mills weak logs for saw mills (agregate) logs for poles (pole timber)		
	fir	IV.	wood for the production of groundwood pulp, mine timber – logs for mines, boom		
	other	V.	wood for the production of pulp and wood-based planks (pulpwood)		
		VI.	fire wood		
	wood from deciduous trees	I.	resonant logs, logs for the production of sliced veneer		
		II.	logs for the production of sliced veneer, other special purpose logs		
	beech	III.	logs for saw mills		
	oak	IV.	mine timber – logs for mines, boom		
	birch	V.	wood for the production of wood pulp and wood-based planks (pulpwood)		
	other	VI.	fire wood		
B	**SAWN WOOD**				
	timber for joinery	I, II, III, IV	deal planks	edged	unedged
	clean timber	I, II, III, IV	boards		
	construction timber	A, B, C	profiled planks		
	unsorted timber	I, II, III	lath battens		
	board timber **squared timber** **half-squared timber**		raw goods for planing		
		custom-made	special logs		
		I, II, III	balks		
		timber for joinery I/II	scanting		
		construction timber III			
C	**FLAT MATERIALS**				
	plywood	for joinery			
		water resistant			
		with foil			
	blockboard	three-layer			
		five-layer			
		doubled five-layer			
	Veneer	peeled (spruce, pine, poplar, beech, birch)			
	composite sheets				
D	**OTHER PRODUCTS**				
	glued balks	for windows			
		for doors			
		for construction work			
	briquettes				
	pallets				
E	**CHIPS, SAWDUST AND BARK**				
	chips	crushed	spruce pine larch beech oak		
		green			
		brown			
		white			
	bark	for energy			
	sawdust				

RAW WOOD

"Assortments of raw wood" is a general expression referring to all parts of tree trunks with industrial applications. Modern forestry and woodworking industries are able to process all parts of wood so that this unique material can yield maximum benefit and be most effectively used for customers' needs. Wood as a type of material obtained from trees at the end of their life can extend its own existence by dozens and hundreds of years when incorporated into the construction of, e.g. a family house or furniture.

We sell all assortments of raw wood of tree species that grow in most parts of the Czech Republic. As a result, the customers have the chance to obtain wood from such trees that meet their specific demands as to the quality of particular assortments. We are able to supply wood from plains as well as mountains and wood of all available dimensions and qualities. We do our best to meet the requirements of all customers, while helping to use wood as a sustainable material for the future. Our customers include woodworking firms from the Czech Republic and other countries, as well as all those who consider wood to be a prospective material helping humans to meet their needs in the 21st century.

WE BUY AND SELL ALL MAIN TYPES OF ASSORTMENTS OF RAW WOOD IN ALL QUALITIES.

ALLWOOD, a.s. supplies and sells assortments of raw wood classified into quality groups according to the Recommended Rules for the Measuring and Sorting of Wood. These rules, valid in the Czech Republic, are acknowledged and observed by a vast majority of suppliers and woodworking companies in the Czech Republic as well as in other countries. ALLWOOD, a.s. co-authored these Recommended Rules and its employees are ready to help all customers to choose the best assortment of raw wood for their customers' specific needs.

A	RAW WOOD		
	wood from coniferous trees spruce pine larch fir other	Quality Class	Usage and Applications
		I.	resonant logs, logs for the production of sliced veneer
		II.	logs for the production of sliced veneer, other special purpose logs
		III.	logs for saw mills weak logs for saw mills (agregate) logs for poles (pole timber)
		IV.	wood for the production of groundwood pulp, mine timber – logs for mines, boom
		V.	wood for the production of pulp and wood-based planks (pulpwood)
		VI.	fire wood
	wood from deciduous trees beech oak birch other	I.	resonant logs, logs for the production of sliced veneer
		II.	logs for the production of sliced veneer, other special purpose logs
		III.	logs for saw mills
		IV.	mine timber – logs for mines, boom
		V.	wood for the production of pulp and wood-based planks (pulpwood)
		VI.	fire wood

timber species			density r[t/m³]	
common name	*Latin name*	*abbreviation*	*w=0 %*	*w=15 %*
spruce	Picea abies (L) KAR	SM	0.4	0.47
white fir	Abies alba MILL	JD	0.35	0.4
Douglas pine	Pseudotsuga menziesii (MIRBEL) FRAN	DG	0.47	0.52
wood pine	Pinus sylvestris L	BO	0.45; 0.5*	0.54
white pine	Pinus strobus L	VJ	0.37	0.41
larch	Larix decidua Mill	MD	0.55; 0.58	0.66
summer oak	Quercus robur L	DB	0.66	0.72
wood beech	Fagus silvatica L	BK	0.61; 0.70	0.75
hornbeam	Carpinus betulus L	HB	0.79	0.85
maple	Acer platanoides L	JV	0.4; 0.59; 0.67	0.71
ash	Fraxinus excelsior L	JS	0.65	0.71
elm	Ulmus minor MILL	JL	0.64	0.7
acacia	Robinia pseudoacacia L	AK	0.74	0.77
white birch	Betula pendula ROTH	BR	0.51; 0.63	0.64
rowan	Sorbus aucuparia L	JR	0.73	0.76
walnut	Juglans regia L	OR	0.56	0.68
plane	Platanus hispanica MILL	PL	0.58	0.62
wild cherry	Cerasus avium L	TR	0.57	0.61
wild pear	Pyrus pyraster L	HR	0.7	0.75
small-leaved lime	Tilia cordata MILL	LP	0.3; 0.49	0.53
alder	Alnus glutinosa L	OL	0.51	0.56
white poplar	Populus alba L	TP	0.43	0.48
black poplar	Populus nigra L	TPC	0.41	0.46
trembling poplar	Populus tremula L	OS	0.35; 0.45	0.5
willow	Salix caprea L	JIV	0.33; 0.40	0.45
chestnut	Aesculus hippocastanum	KS	0.45; 0.59	0.63

WOOD DENSITY

The properties of particular species of wood significantly depend on its density. This affects how strong and hard the wood is, as well as its abrasion, workability and drying. The wood of low density species is soft, less strong and has a shorter service life. The wood of heavy species (i.e. those with a high density) is very strong and hard and has a long service life.

kg/m³ at the humidity of 12 - 15%	
very light	under 350
light	350-450
light to medium	450-575
medium	575-725
heavy	725-900
very heavy	over 900

WOOD STRENGTH

The strength of particular timber species may be assessed with the help of various criteria, including rigidity, strength under pressure, strength under traction, strength under bending, and shock resistance. The strength depends on the timber species, quality (the presence of imperfections) and humidity content. The classification is only informative and is not meant for the calculation of limits of strength and strain during processing.
Some properties such as strength are typically improved when the material is processed by means of layering, e.g. in the production of plywood, lamellas, layered materials, etc., because such layering minimizes the effect of any imperfections.

Module of flexibility N/mm²	
very high	over 19
high	14-19
medium	11-14
medium to low	9-11
low	under 9

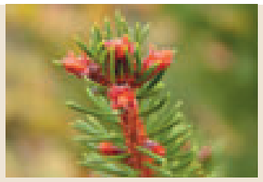
WOOD SHRINKAGE

Freshly cut wood has a relatively high humidity content. In the process of drying out, wood loses humidity until it reaches the level of the humidity of the surrounding air. The exchange of humidity with the surrounding environment may, under certain conditions, lead to a change of volume and shape. Wood dried in temperate climate zones contains approximately 18-20 per cent of humidity. The figure is somewhat higher in tropical areas. Many industrial uses of wood, however, require that wood be artificially dried up in drying houses so that the humidity content is further reduced.

Shrinkage of fresh wood at the humidity level of 12 %		
	Tangential %	Radial %
very small	under 2.5	under 1.0
small	2.5-4.0	1.0-2.0
medium	4.0-5.5	2.0-3.0
high	over 5.5	over 3.0

SPRUCE PICEA ABIES

description	conifer, conical shape, dry buds, solitary growth, shallow roots – suffers from uprooting
wood colour	yellow white to light yellow brown
origin	northern Europe, mountains in central Europe
mature height	35 m
soil requirements	acid, sandy
zones in the Czech Republic	III, IV
heart / sap	heart wood
durability	less durable and resistant to pests
workability	easy to work with, easy to dry, more difficult to treat (impregnate)
utilization	the most important kind of wood, used as construction and building timber for underground and surface structures, poles, roofs and bridges
density at w 0%	420 kg m-3
hardness	26 MPa






PINE PINUS SILVESTRIS

description	conifer, conical shape, needles in pairs, solitary growth
wood colour	sap wood is yellowish / pinkish, often with a blue white tinge (effect of fungi); heart wood is light brown in the case of freshly cut wood and later turns dark into red brown.
origin	central and northern Europe, Asia Minor, Siberia
mature height	25 m
soil requirements	clayey, acid, sandy
zones in the Czech Republic	I, II, III, IV, V
heart / sap	heart wood
durability	less durable and resistant to pests
workability	easy to dry and work with (pitch/resin worsens the workability of surfaces), sap wood is easier to treat (impregnate) than heart wood
utilization	numerous applications – construction and building timber for external and water constructions (bridges), furniture industry, joinery (window and door frames), telegraph poles, sleepers; chemical industry (pulp, wood wool, etc.), resin is used for the production of turpentine
density at w 0%	505 kg m-3
hardness	28.5 MPa






BEECH FAGUS SILVATICA

description	deciduous tree, very broad shape, beechnuts
wood colour	pinkish, light brown to red brown (steamed wood is reddish); old trees often have pseudo cores, growth rings are relatively well noticeable
origin	from central Europe to the Caucasus mountains
mature height	30 m
soil requirements	acid, sandy
zones in the Czech Republic	III, IV, V
heart / sap	heart wood
durability	less durable and resistant to pests
workability	easy to treat (impregnate), steam, stain; more difficult to dry (tends to develop cracks)
utilization	popular in the furniture industry owing to its reddish colour and properties: it is easy to bend (hence its use for chairs); important raw material for the production of veneer, plywood, parquets and railway sleepers; used for chemical and semi-chemical processing (dry distillation, pulp, chipboard and fibreboard); construction material, production of wooden accessories of machinery, transportation vehicles, small wooden objects (buttons, toys, bobbins, sticks) and tools, sometimes even the butts of hunting guns
density at w 0%	685 kg m-3
hardness	61 MPa






OAK QUERCUS

description	deciduous, widely branching
wood colour	sap wood is yellowish to light brown, heart wood is light to dark brown; there are clearly visible boundaries between growth rings and spring and summer wood
origin	Europe
mature height	35 m
soil requirements	acid, sandy
zones in the Czech Republic	III, IV
heart / sap	heart wood
durability	high tannin content makes is one of the most durable kinds of wood
workability	easy to process, more difficult to dry
utilization	water constructions, ship building, furniture industry, woodcarving, turnery, various constructions, parquets, thresholds, stairs, poles, ...
density at w 0%	680 kg m-3
hardness	67.5 MPa






SAWN WOOD

The trees for sawn wood come from owner-managed forests and are processed at sawmills of the CE WOOD, a.s. holding. The range of sawn wood covers construction timber, building timber, timber for joinery and timber for other purposes. ALLWOOD, a.s. offers these products to all customers, including those with the highest expectations of the products. The aim of ALLWOOD, a.s. is to actively participate in the increased consumption of sawn wood even for the most demanding applications.

ALLWOOD, a.s. supplies all major categories of sawn wood and a complete range of other products.
ALLWOOD, a.s. is the exclusive business representative of major Czech companies which produce high-quality sawn wood.

- JAVOŘICE, A.S.
- PRAGUE POLYEDR, A.S.
- BESKYDSKÉ PILY, A.S.
- FEP, A.S.

ALLWOOD, a.s. offers a wide assortment of sawn wood and other products. Do not hesitate to contact our business representatives – they will be happy to help you choose the right product category for you.

ALLWOOD, a.s. supplies assortments of sawn wood classified into quality groups according to the European Standards EN 1611-1:1999/A1. The quality groups have been set according to the technical standards common for visual sorting as adopted by the member states of CEN (Comité Européen de Normalisation), which include Belgium, the Czech Republic, Denmark, Finland, France, Ireland, Iceland, Italy, Luxembourg, Malta, Germany, the Netherlands, Norway, Portugal, Austria, Greece, the United Kingdom, Spain, Sweden, and Switzerland.

For commercial purposes, ALLWOOD,a.s. has set several quality groups based on the combination of the properties of the material, technology of its processing, its imperfections, and purpose of use. The aim is to simplify the customers' choice of the right assortment. Thanks to the large quantities of sawn wood supplied to numerous customers for a wide variety of applications, we have acquired such experience that enables us to offer wood of the required quality based on the commonly standards of qualitative sorting.

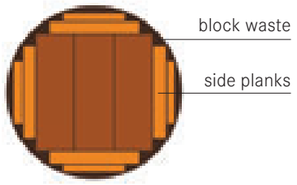
ALLWOOD, a.s. supplies assortments of sawn wood in qualities which can be commonly obtained.
- the structure and quality of sawn wood correspond to the assortments of good-quality round wood processed in saw plants.
- the sawing technologies of manufacturers guarantees optimal stability of the sawn wood.
- the wide range of material on stock in our warehouses ensures fast deliveries of various assortments.
- transportation to the customers' operational warehouses reduces transportation costs and other costs associated with the purchase of sawn wood intended for further processing.
- sawn wood can be delivered dried out (upon request)

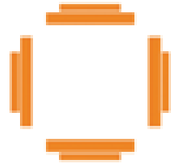
B	SAWN WOOD				
	timber for joinery	I,II,III,IV	deal planks	edged	unedged
	clean timber	I,II,III,IV	boards		
	construction timber	A,B,C	profiled planks		
	unsorted timber	I,II,III	lath battens		
	board timber		raw goods for planing		
	squared timber	custom-made	special logs		
	half-squared timber	I,II,III	balks		
		timber for joinery I/II	scanting		
		construction timber III			

	board timber	boards	t = 15 - 38 mm	
		deal planks	t = 38 - 100 mm	
		block waste boards	t = 18 - 24 mm	left edge is affected by sawing
		solid block waste	t = 18 - 24 mm	left edge is either round or affected by sawing in places
	squared timber	balks	S > 100 cm²	
		scantings	S = 25 - 100 cm²	
		battens	S = 10 cm²	
		lath battens	S = 10 - 25 cm²	
	half-squared timber	cushions	t = 100 mm, width = 50 mm	
		beams	t = 100 mm, width = 2/3 thickness	
		sleepers		

A general classification of quality groups and commercial marking					
Austrian usage	I.	II. - III. Good	III. - III. Crude	III. - IV.	
European norm	G2 - 0/G4 - 0	G2 -1/G4 -1	G2 - 2/G4 - 2	G2 - 3/G4 - 3	G2-4/G4-4
Commercial designation	EBW	EBW –IMBALLO I	IMBALLO I	IMBALLO II	MIX
US rules	Common 1 Select	Common 2 BTR	Common 3	Common 4	

SAWN WOOD PRODUCTION



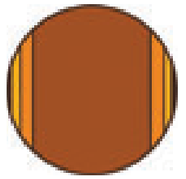


side planks

main product

Logs are sawn on the basis of customer demands according to sawing schemes which result in two groups of products: side planks and sawn wood assortments. Side products in the process of sawing include chips and sawdust.

According to the required products, such a sawing scheme is used that best meets the product definition and customer needs. In this way, the highest possible yield in the given assortment and quality can be obtained.



precut

recut

block waste

side sawn wood

main product

Precut
removal of block waste and sides; production of 2-side prisms, block waste sorting

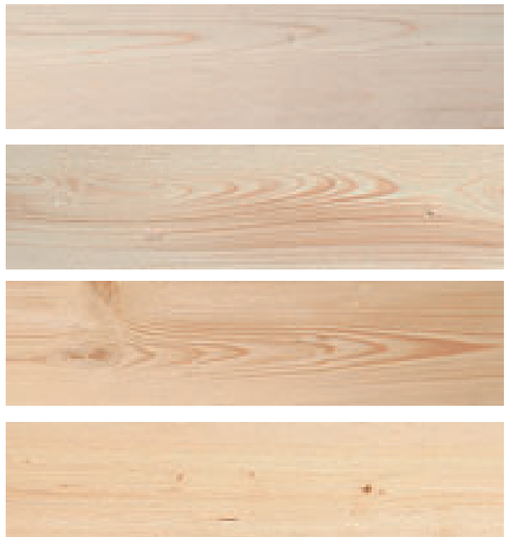
Recut
removal of block waste and sides; main product sawing; block waste sorting

Edging of side sawn wood
side planks are edged to yield a product processed on four sides

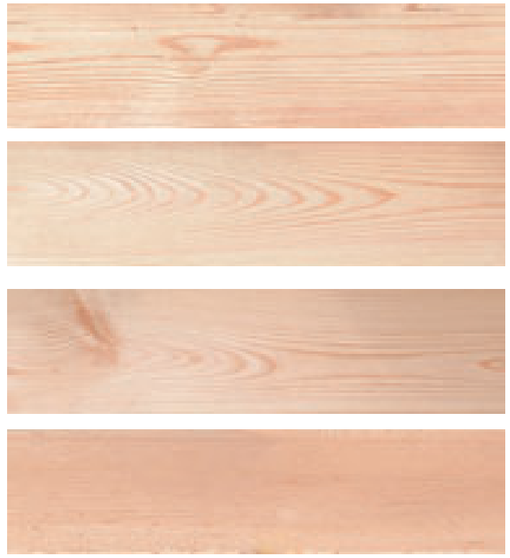
Prism processing and edging of sawn wood
production of the main product and its edging according to assortment specifications

SPRUCE I.

SPRUCE II.



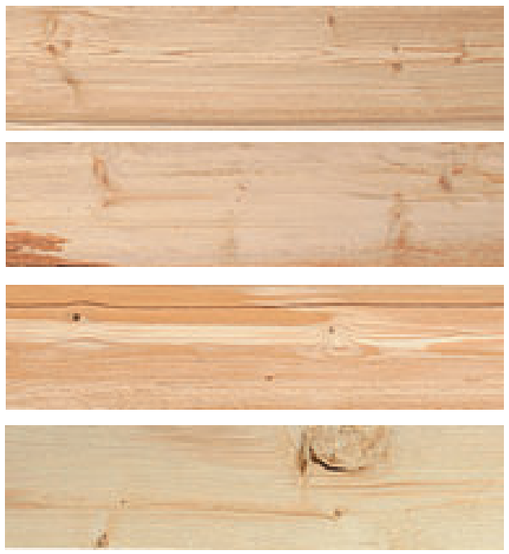
PINE I.



PINE II.

SPRUCE III.

SPRUCE IV.



PINE III.

PINE IV.

OAK I.

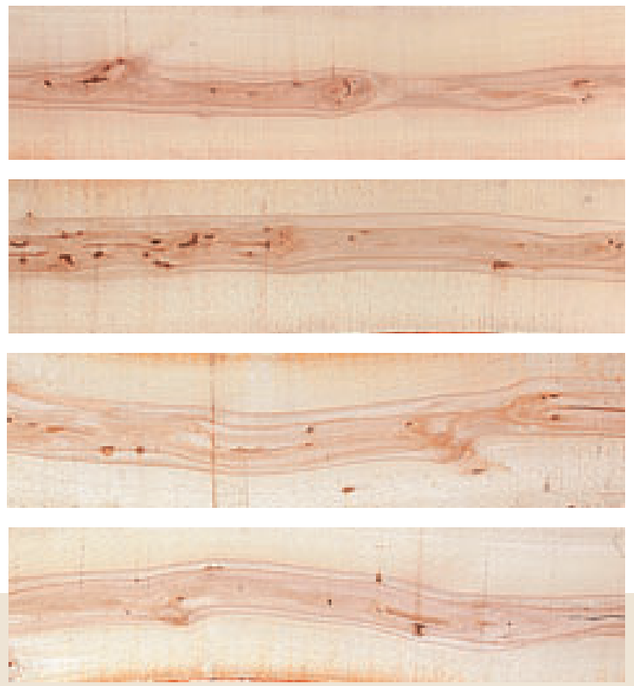
OAK II.

OAK III.

BEECH I.

BEECH II.

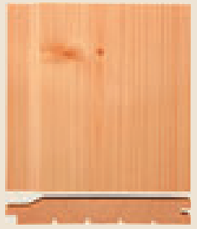
BEECH III.



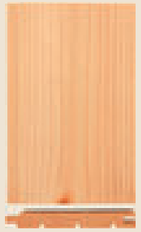
PROFILED PLANKS

PANEL BOARDS AND FLOOR PLANKS

wood species: spruce, pine
panel boards:
12.5 mm and 19 mm, quality classification A/B, C , CII profile types: KLASIK, TATRAN, OSTRAVICE, TAJGA, ENGLISH WELT, lengths 4 m, 5 m
floor planks:
19 mm, 28 mm, quality classification A/B, C , lengths 4 m, 5 m



English welt
19 x 146

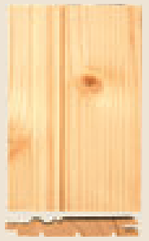


Classic-style
12.5 x 96, 19 x 96, 19 x 116

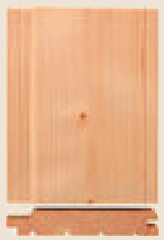
Ostravice
19x146

Floor plank
19 x 146

Floor plank
28 x 146



Tajga
12.5 x 96



Tatran
19 x 116

FLAT MATERIALS

ALLWOOD supplies the products made by **PLOMA, a.s.**, a tradtional producer of high-quality flat materials

C	FLAT MATERIALS	
	plywood	for joinery
		water resistant
		with foil
	block board	three-layer
		five-layer
		doubled five-layer
	veneer	peeled (spruce, pine, poplar, beech, birch)
	composite sheets	

PLOMA PLAT

PLYWOOD FOR JOINERY

These are flat boards made from an odd number of glued layers of peeled veneer with perpendicularly arranged wood fibres. The boards are manufactured according to the PN 001-49-01 standards from either completely from beech or beech and conifers with the inner layers of soft wood. The quality of the gluing must meet the requirements of Class 1 of the ČSN EN 314-2 (IW 20) standards. This type of plywood can be used for the danger class 1 according to the ČSN EN 3 SN 335-3 standards, i.e. internal (dry) environment.

Possible applications:

- furniture production
- joinery production
- interior work and other suitable uses

Formaldehyde leak class A (E1) according to the ČSN EN 1084 standards. Flammability class under the ČSN 73 0810 standards is C2 – medium flammability. Supplied sanded on both sides and un-sanded.

thickness [mm]	dimensions [cm]	wood species
3, 4, 5, 8, 10, 12, 15, 18	250 x 125, 125 x 250	beech, spruce, pine

PLOMA TECH

WATER RESISTANT PLYWOOD

These are flat boards made from three or more glued layers of veneer with perpendicularly arranged wood fibres. The boards are manufactured according to the PN 005-49-01 standards from wood of either deciduous or coniferous trees. The quality of the gluing must meet the requirements of Class 3 of the ČSN EN 314-2 (EW 100) standards. This type of plywood is suitable as supporting and non-supporting boards for use in wet and external environments according to danger class 3 of the ČSN EN 335-3 standards. The product can also be used for danger classes 1 and 2.

Possible applications:

- package production
- construction work
- building applications and joinery
- automotive industry and other suitable uses

Formaldehyde leak class A (E1) according to the ČSN EN 1084 standards. Flammability class under the ČSN 73 0810 standards is C2 – medium flammability. Supplied sanded on both sides and un-sanded. The properties of this kind of plywood make it comparable with DIN 68705-3.

thickness [mm]	dimensions [cm]	wood species
4, 5, 6, 8, 10, 12, 15, 18, 21, 24, 28, 30	250 x 125 (125 x 250) 244 x 122 (122 x 244)	spruce, pine, beech, birch, poplar

PLOMA FOIL

PLYWOOD WITH FOIL

The surface of these water resistant boards, made from wood of deciduous and coniferous trees, is treated by a fenolic foil according to the PN 003-49-01 standards. This plywood comes in two types: ‘kombi’ (beech – overlapping combination of beech and spruce – beech) and ‘twin’ (beech – soft wood – beech).

This kind of plywood is manufactured in two types:

plywood with both sides covered by a smooth foil; and plywood with one side covered with a smooth foil and the other side with anti-slippery treatment.

The side edges are treated with an anti-wet coat of paint. The quality of the gluing must meet the requirements of Class 3 of the ČSN EN 314-2 (EW 100) standards This type of plywood is meant for use according to danger class 3 of the ČSN EN 335-3 standards (use in exteriors).

Possible applications:

(with a smooth foil)

- construction panels to be used with concrete
- side panels of trailers and other suitable uses requiring anti-slippery surface treatment
- loading areas of trucks
- loading areas of trailers

Formaldehyde leak class A (E1) according to the ČSN EN 1084 standards. Flammability class under the ČSN 73 0810 standards is C2 – medium flammability. The properties of this kind of plywood makes it comparable with DIN 68705-3 and DIN 68792.

thickness [mm]	dimensions [cm]	wood species
8, 10, 12, 15, 18, 21, 25	125 x 250, 122 x 244	beech

PLOMA BOARD

BLOCKBOARD WITH GLUED CORE

This block board consists of plywood boards with a block wood core surrounded on both sides by one or two layers of construction (peeled) veneer. It is produced from round wood of deciduous trees and sawn wood of coniferous trees, according to the PN 007-49-0 standards. Depending on its construction, block board is classified as three-layer, five-layer, and doubled five-layer block board. The direction of veneer fibres is parallel in the case of five-layer block board and perpendicular in the case of doubled five-layer block board.

The quality of the gluing must meet the requirements of Class 1 according to the ČSN EN 314-2 (IW 20) standards. The danger class 1 according to the ČSN EN 335-3 standards makes it suitable for interiors and other dry environments. The block board is produced in a single quality characterized by imperfections of wood (on the plywood) and manufacturing defects visible on the finished product. The extent of the imperfections is based on their number per one square metre. Supplied sanded on both sides and un-sanded.

Possible applications:

- furniture production
- joinery production
- interior furnishings and other suitable uses

Formaldehyde leak class A (E1) according to the ČSN EN 1084 standards. Flammability class under the ČSN 73 0810 standards is C2 – medium flammability.

thickness [mm]	dimensions [cm]	wood species
16, 18, 22, 25, 30, 34, 38, 39	125 x 250, 125 x 218	poplar, beech, birch

PLOMA MULTI

MULTIPLEX

These boards are made from all-beech multi-layer plywood and are fireproof. The quality of the gluing must meet the requirements of Class 3 according to the ČSN EN 314-2 (EW 100) standards. The danger class 3 according to the ČSN EN 335-3 standards makes it suitable for uses in the exterior. The product can also be used for danger classes 1 and 2. Constant dimensions. Supplied sanded on both sides and un-sanded.

Produced in two kinds:

- with peeled veneer on the surface – PN 0 N 002-49-01
- with beech joint veneer on the surface – PN 008-49-00

Possible applications:

(with peeled veneer)

- production of foundry moulds
- replacement of beech wood on exposed furniture segments (chairs, bed frames)
- work desk tops and other joinery applications

(with joint veneer)

- furniture production
- interior furnishings
- joinery production and other suitable uses

Formaldehyde leak class A (E1) according to the ČSN EN 1084 standards. Flammability class under the ČSN 73 0810 standards is C2 – medium flammability.

thickness [mm]	dimensions [cm]	wood species
15, 18, 20, 25, 30, 35, 40, 45, 50	250 x 125 (125 x 250), 244 x 122 (122 x 244)	beech

POLYWOOD

COMPOSITE SHEETS

‘Polywood’ is a commercial name for composite sheets on the basis of polypropylene filled with wooden particles. The material is produced in the form of sheets by extrusion and may be laminated by PP foils and non-woven textiles in order to obtain better physical and mechanical properties. For this reason, the sheets are ideal for being formed by heat and are widely used in the car industry – for instance for the production of door panels and car boot panels of Škoda Octavia, Škoda Fabia, Suzuki and Daewoo cars.

The thermoplastic character of Polywood composite sheets makes it easily recyclable.

Possible applications:

When heated under instructions, the sheets may be formed into various shapes – either the sheets only or in combination with polyester textiles, knits, and thermoplastic imitation leather. The boards may be mechanically processed, connected or even sonotronically welded.

thickness [mm]	width [mm]	length [mm]
1.5 to 4 as required	up to 1 600 as required	max. 4 000

CHIPS, SAWDUST AND BARK

E	CHIPS, SAWDUST AND BARK		
	chips	crushed	spruce pine larch beech oak
		green	
		brown	
		white	
	bark	for energy	
	sawdust		

CHIPS includes various raw materials containing wood particles with admixtures of other components of bio-material from trees (bark, assimilation bodies) and/or small non-wooden admixtures.

Chips are classified into 4 types:

- green chips – containing all components of bio-material
- brown chips – not containing any assimilation bodies (needles, leaves)
- white chips – containing only wood with insignificant admixture of bark
- energy chips – used as a source of primary energy

The dimensions of chips are from 5 to 50 mm.

CHIPS – BARKED

ALSO KNOWN AS WHITE, CLEAN, PAPER, WITHOUT BARK, ETC.

Chips made up of small wood particles of various dimensions (from 3 mm to about 45 mm with the optimal dimensions of 25 x 25 x 5 mm), partially also bigger particles up to 100 mm and more (undesirable), with humidity from 35 to 55 per cent. The shapes and dimensions depend on the parameters of the production facilities. Chips are produced at saw mills by shredding otherwise unusable waste from the processing of un-barked logs for sawing and other uses (of whatever quality) or in pulp mills by shredding un-barked assortments of wood for pulp and the subsequent sorting on chip sorting machines.

Technical data and terminology:
piled cubic metre (pcm / stere) – a unit for ascertaining the volume of loose chips regardless of humidity and wood density
ATRO method – a method for ascertaining the precise amount of wood mass in the chips by weighing
fraction analysis – a method for ascertaining the percentage amount of the particular fractions of different dimensions by means of a chip sorting machine with four and more sieves of different dimensions
bark content – a method of weighing for ascertaining the percentage amount of bark; usual bark content is up to 1 per cent of the total weight.

CHIPS – UNBARKED

ALSO KNOWN AS BROWN, DIRTY, IN BARK, FOR ENERGY

Chips made up of small wood particles of various dimensions (from 3 mm to about 45 mm with the optimal dimensions of 25 x 25 x 5 mm), partially also bigger particles up to 100 mm and more (undesirable), with humidity from 35 to 55 per cent. The shapes and dimensions depend on the parameters of the production facilities. Chips are produced at saw mills by shredding otherwise unusable waste from the processing of un-barked logs for sawing and other uses (of whatever quality) or as a raw material for the production of agglomerated sheets by shredding un-barked fibre assortments of un-barked wood and other wood-based waste

Technical data and terminology:
piled cubic metre (pcm / stere) – a unit for ascertaining the volume of loose chips regardless of humidity and wood density
bark content – a method of weighing for ascertaining the percentage amount of bark; usual bark content is up to 15 per cent of the total weight.

BARK – UNCRUSHED

Bark made up of non-homogenous bark particles of various dimensions
Uncrushed bark is produced either at saw mills and other woodworking facilities as a side product of machines which remove bark from round wood or by natural accumulation of bark under round wood piled for storage. Uncrushed bark is characterised by a high content of inorganic admixtures. It is suitable for use in forestry, gardening, etc.

Technical data and terminology:
piled cubic metre (pcm / stere) – a unit for ascertaining the volume of loose bark piled onto a truck regardless of humidity and admixture content.

BARK – CRUSHED

Bark made up of small pieces of bark of various dimensions – from 10 mm to approximately 100 mm (sometimes even longer, though it is undesirable).

SAWDUST

ALSO KNOWN AS SORTED SAWDUST

wood-based material with components of various dimensions, from dust particles to pieces of wood of up to 3 mm. The shapes and directions of fibres depends on the manner of production. Humidity is from 10 to 48 per cent, humidity of sawdust from saw mills is from 35 to 48 per cent.
Sawdust is produced as a side product in the mechanical division of wood by sawing tools (band saws, circular saws). It can come from a single type of wood or several types of wood mixed together.
The volume is set in piled cubic metres (pcm / stere). Transportation results in the reduction of volume from 5 to 10 per cent.

WOODWORKING CAPACITIES

JAVOŘICE, A.S.

Ptenský Dvorek 100, 79843 Ptení, IČO: 63492202
Certifications C-O-C, ISO 9001

saw plants	adress	district	processed volume (m^3)	wood species	quality acc. to DP	main technologies	products
Javořice	Ptenský Dvorek 100, 798 43 Ptení	Prostě-jov	360 000	SM	class III.	circular saw	
Bystřice pod Hostýnem	Mlýnská 543, 768 61 Bystřice pod Hostýnem	Zlín	25 340	DB, BK		band saw	deciduous trees
Vysočany	Sloup v Moravs. Krasu 29, 679 13	Blansko	11 300	SM	class III.	frame saw	core and side wood, chips for paper production, sawdust, crushed bark

FEP, A.S.

Havlíčkova 1 350 01 Cheb, IČO: 26279291
Certifications: C-O-C, ISO 9001

saw plants	adress	district	processed volume (m^3)	wood species	quality acc. to DP	main technologies	products
Jablůnkov	739 92 Návsí	FM	30 000	SM, MD, BO	class II class III	2x RP 710	joinery timber, construction timber, sawdust, chips, briquettes, firewood chips
Dobrá	Dobrá	FM	2 600	SM	III. D	angular saw	construction timber, sawdust, firewood chips

PLOMA, A.S.

Velkomoravská 79, Hodonín, IČO: 46347712
Certifications: C-O-C, ISO 9001

saw plants	adress	district	processed volume	wood species	quality acc. to DP	main technologies	products
Ploma	Velkomoravská 79, Hodonín	Hodonín	57 549 14 427 1 504 11 744	SM, BO, BK BŘ TP	class II, III, class II, class II, class II	machinery for veneer peeling	large-size materials

BESKYDSKÉ PILY, A.S.

Ostravice 292, 739 14 Ostravice, IČO 25869485
Certifications: C-O-C, ISO 9001

saw plants	adress	district	processed volume (m³)	wood species	quality acc. to DP	main technologies	products
Ostravice	Ostravice 292, 739 14 Ostravice	Frýdek Místek	70 000	SM	class III	processing of class III round wood for sawing; two pairs of frame saws.	construction timber core and side wood chips for paper production sawdust firewood chips
Chalupy	Chalupy 51, 257 01 Postupice		3 000	SM	class III	processing of class III round wood for sawing; one frame saw; remilling	construction timber core and side wood firewood chips sawdust
Olbramkostel	Olbramkostel, 671 51 pošta Kravsko	Znojmo	2 500	SM	class III	processing of class III round wood for sawing; one frame saw, remilling	construction timber core and side wood firewood chips sawdust
Křižanov	Křižanov 256, 594 51 Křižanov	Velké Meziříčí	10 000	SM	class III	processing of class III round wood for sawing; two pairs of frame saws	construction timber core and side wood firewood chips sawdust bark
Šumná	Šumná 125, 671 02 Šumná	Znojmo	22 000	SM	class III aggregate	processing of aggregate material Two shredding machines.	balks lath battens chips for paper production firewood chips bark

HANUŠOVICKÁ LESNÍ A.S.

Hlavní 146, 788 33 Hanušovice, IČO: 451 931 69
Certifications: C-O-C, ISO 9001

saw plants	adress	district	processed volume (m³)	wood species	quality acc. to DP	main technologies	products
Malá Morava	Vlaské 9, 788 33 Hanušovice	Šumperk	35 000	SM	III. C, III. D	2 frame saws	sawn wood, chips, sawdust, bark

PRAGUE POLYEDR, A.S

Nádražní 35, Borohrádek, IČO: 25091417
Certifications: C-O-C, ISO 9001

saw plants	adress	district	processed volume (m³)	wood species	quality acc. to DP	main technologies	products
Borohrádek	Nádražní 35, Borohrádek, 517 24	Rychnov nad Kněžnou	70 000	BO, SM	class III	reduction band saw, deal frame saw	sawn wood, chips, sawdust