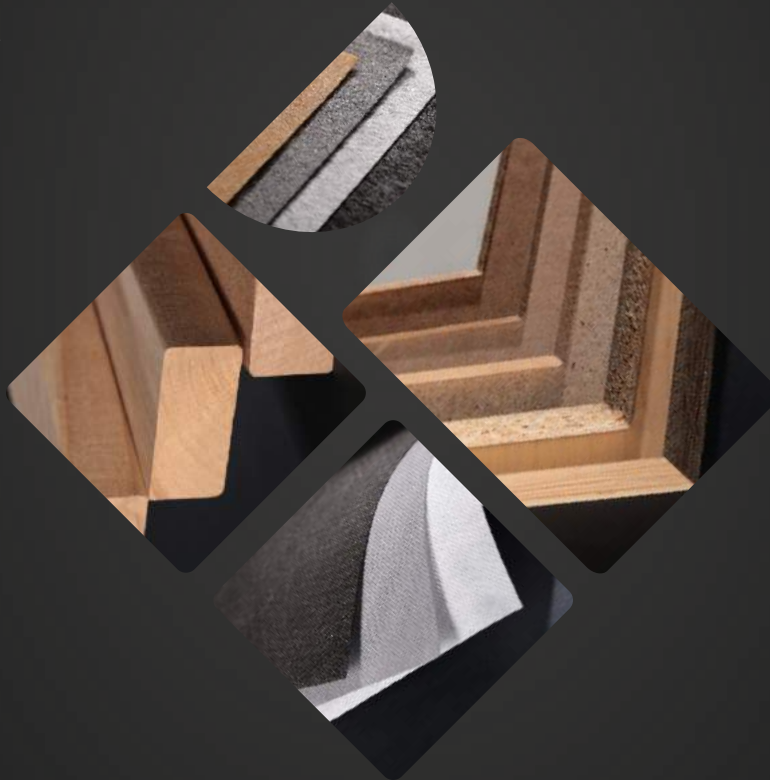


Licon
INTERNATIONAL



TECHNICAL TEXTILES
WOOD-BASED MATERIALS



TECHNICAL TEXTILES WOOD-BASED MATERIALS

LICON INTERNATIONAL has been successfully functioning in furniture and upholstery industry since 1998. Over this period of time we have become one of the leading suppliers of furniture technical nonwovens, timber and panel materials in Poland and now we are getting strong position on an international market. We are also really proud of our continuous development; every year of our business activity ends with better results than previous one. This success is determined by continuous expansion of our offer, search for new purchase possibilities on foreign markets as well as ongoing work to improve the services provided to our customers, the professionalism of our personnel and our focus primarily on the customer's needs. The latter factor has greatly contributed to the fact that over these years the range of assortments we provide, possibility to request tailor-made packaging of materials have grown significantly. We have 3 lines for scrolling and cutting nonwoven fabrics which allows us to work on materials up to 3.2 m wide and with diameter of over 70 cm quickly and flexibly.





In 2015 we acquired shares in spunbond production line in China which allows us to respond to market needs more effectively. Our offer of timber and panel materials has also got richer. All of this is the result of our work and contacts in Belarus, Ukraine, Romania, Slovakia and China. In 2015 we have expanded our branch offices in Lviv and Minsk. More details can be found on the following pages.

We care about the quality of our products, therefore we have the whole range of required up-to-date certificates such as Oeko-Tex, TÜV Rheinland, FIRA, SATRA, INTERTEK, FSC, REACH declarations and documents required by IKEA.



"SPUNBOND" TYPE NONWOVEN FABRICS

This polypropylene nonwoven material, also known as fleece, is very versatile and widely used in upholstery and furniture industry. It's highly appreciated because of its tensile and tearing strength. At the same time, this nonwoven fabric is breathable and it is flame-retardant. High quality nonwoven fabric is made from pure polypropylene and does not contain any harmful substances and additives.



In furniture industry it is mostly used in white, black, gray and beige colours.

Usage:

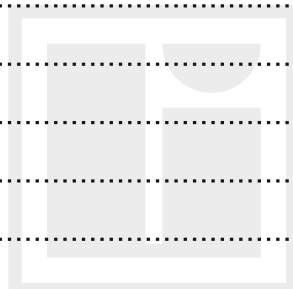
- sliding layer which makes pulling the cover between foam and upholstery fabric easier
- sliding layer for seat base
- material for linings in the production of pillows and quilts
- upholstery fabric for invisible parts of the furniture or material for fabric pockets covering the springs

Since the middle of 2015 Licon International has been a shareholder of modern spunbond production line located in Shandong province in China. It allows us to provide our customers with a vast range of width options, including mattress width. All width options up to 2,45 m are available. Being co-owners of the production line we are able to influence the price policy and quality control.



Standard width is 1,6 m, but in Licon International we have 3 packaging machines (cutting with requested width and strolling). Due to this fact we can offer almost every width for customer's individual needs. The minimum width in packaging is 12 cm and maximum available is 3,2 m.

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„THERMOFELT“ NEEDLED NONWOVEN FABRIC (FIBERTEKS TYPE)

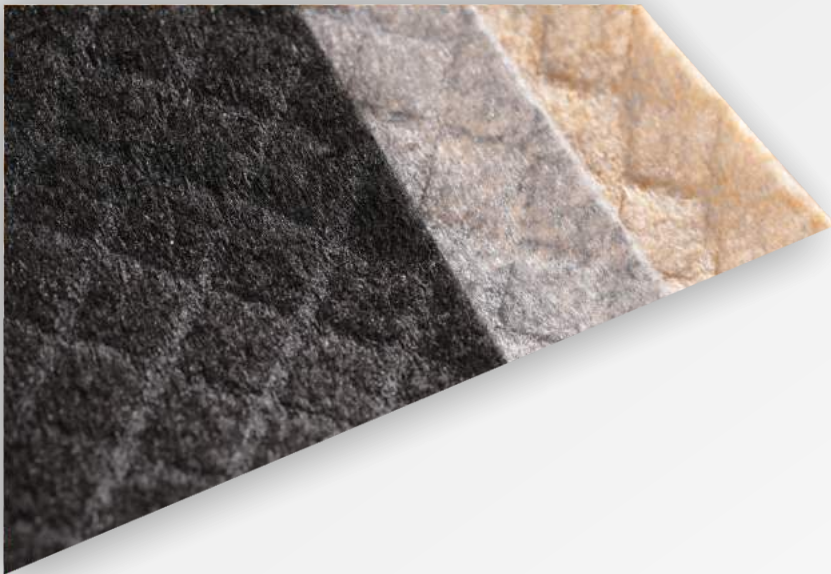
It is also a polypropylene nonwoven fabric, however, it is produced with needlepunched technology. Advanced process allows to produce smooth, soft-sided, double-sided calendered nonwovens or ones with the embossed pattern.



Thermofelt is characterized by its tensile and tearing strength and air permeability. It has hygienic certificates, is flame-retardant, and can also be in fully non-flammable version.

Usage:

- as an upholstery material for invisible parts of furniture (especially for leather furniture)
- as a fixation layer for seat bases by joining with Velcro
- as an upholstery and material for spring pockets

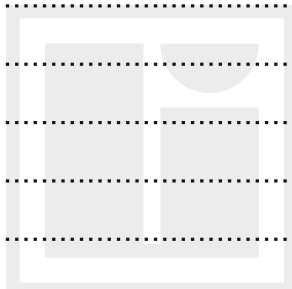


Available weight: 80, 100, 120 and 150 g for smooth version and 120 g for embossed version.

Colours: black, gray, brown, beige and sand.

Standard width of rolls is 1,6 m, but we can adapt it to the customer's individual needs up to 3,2 m.

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MDF

It is a kind of fibreboards with medium hardness and high density which is a result of pressing wood fibres with organic binders and hardening agents by applying high pressure and temperature.



MDF is a good alternative to natural wood. Moreover it does not contain any structural deficiencies which natural wood often has, such as knots or cracks



Usage:

- doors and frames production
- basic material for furniture production
- decorative slats
- coffered ceilings
- window sills

MDF

PARAMETER	INDEX
THICKNESS	4-40 mm
PANEL FORMAT	2800 x 2070 mm 2440 x 1830 mm
STANDARD DENSITY	730-760 km/m³
FORMALDEHYDE E1 EMISSION CLASS	STB EN 622-1
FORMALDEHYDE CONTENT	≤ 8 mg/100 g
MOISTURE	≤ 4-11%

Due to high quality of surface, homogeneous density and fibre composition these boards are perfect for further processing (milling, varnishing and coating with different materials) which is essential in furniture and carpentry products manufacturing. We have MDF panels in permanent offer and at competitive prices.

NOTES



HDF

It is the product of a wood-like MDF, but has a higher density.



Offered by the Licon International plates are widely used among the leading manufacturers of doors.

Usage:

- door production
- rear walls of furniture
- elements of upholstered furniture
- plates on the bottom of the drawers
- package
- floor panels production



HDF

THICKNESS (mm)	FORMAT (mm)	DENSITY(kg/m ³)
2,5	2440 x 1220	≥800
3,0	2440 x 1830	
3,2	2440 x 1845	
	2440 x 2050	
3,6	2500 x 1230	

The dry method of HDF production allows for the perfect surface for painting. HDF board can be successfully veneered with decorative foils and natural veneers.

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FURNITURE PAPERBOARD

We also offer furniture paperboard both solid and glued which has proven its high quality among a lot of our customers.



Solid and glued paperboard is used in furniture industry for assembling furniture constructions, for producing upholstered furniture frames. It is available in different formats according to customer's needs.

Usage :

- production of upholstered furniture frames
- assembly of furniture construction
- bookbinding industry
- spacers
- package



Technical specifications of cardboard

PARAMETER	INDEX
THICKNESS	1,03 - 3,3 mm
WEIGHT	800-2450 g/m ²
WEIGHT DEVIATION	± 5 %
SHEET DIMENSIONS	680 x 1560 800 x 1200 1000 x 1330 1000 x 1520 1000 x 2000 2000 x 1700
SHEET CUTTING EFFICIENCY	2/4 %
THICKNESS DEVIATION	± 0,05 %
DIMENSIONAL DEVIATION	± 5-3 mm
EFFICIENCY OF 1000 kg/m²	≈ 1050 m ²
MOISTURE RESISTANCE	Not more than 24 calenderings
GLUING Cobb30	60 - 100 g/m ²

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PLYWOOD

Plywood is manufactured from dried layers of wood veneer that are glued and pressed by applying high temperature. Cross gluing of sheets reduces the risk of natural shrinkage and swelling of the material. Due to this fact plywood is stronger and more dimensionally stable than solid wood.



Usage:

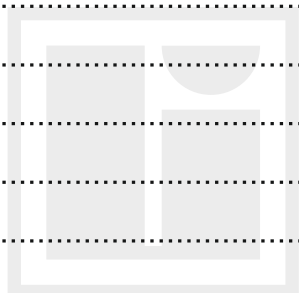
- furniture industry (upholstered furniture, elements of construction)
- carpentry (wood-crafted items, construction woodwork)
- means of transport (e.g. padding of walls, ceilings and floors, decorating elements)
- building



Plywood

THICKNESS (mm)	DIMENSIONS (mm)	CLASS
4		
6		I / II
8		II / II
9		II / III
10	1525 x 1525	III / III
12	1250 x 2500	II / IV
15		IV / IV
18		
21		

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CHIPBOARD

Is an engineered wood product manufactured from wood chips, sawmill shavings, or even sawdust, and a synthetic resin or other suitable binder, which is pressed and extruded.



Due to the high dimensional stability, boards have gained wide acceptance in the furniture industry, carpentry and construction.

Usage:

- basic material for furniture production
- building (external walls)
- wainscot panels



Particleboard raw

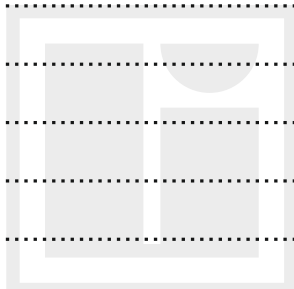
THICKNESS (mm)	DIMENSION (mm)
12	
15	
16	2800 x 2070
18	2750 x 1830
22	
28	

Particleboard laminated

THICKNESS (mm)	DIMENSION (mm)
16	2800 x 2070
18	2750 x 1830

Thanks porous surface, they can also be upgraded by lamination (thin melamine coatings), lacquering, artificial veneering and natural veneer.

NOTES





FIBREBOARD

To be able to offer our customers a full range of materials needed to build the furniture, we offer a wide range of panel materials



Advantages:

- high mechanical strength
- big sheet format
- material homogeneity
- easy coating, laminating and bonding with other material
- plastic and machining workability
- excellent bending

They are manufactured in various thicknesses ranging from 1.5 mm, mainly used in furniture and construction.

Particleboard raw

THICKNESS (mm)	DIMENSION (mm)
2,5	2750 x 1700 1610 x 2440
3,0	
3,2	
5,0	

Particleboard laminated

THICKNESS (mm)	DIMENSION (mm)
2,5	2750 x 1700
3,2	



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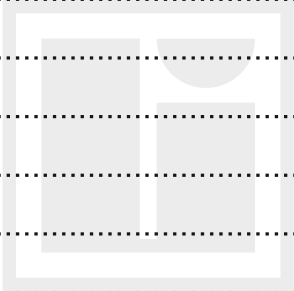
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SAWN TIMBER

The latest addition to our offer is high quality beech and pine wood. Due to its high quality, the slats offered by Licon International enjoy among the top manufacturers of furniture and beds.



Beech Timber

DIMENSION (mm)	LENGTH (m)	CLASS	MOISTURE
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e.g.

47 x 24

49 x 22

50 x 25

55 x 24

55 x 28

55 x 29

0,55 - 3,25

1/2

10-12%

Beech perfectly accept all kinds of varnishes, stains and paints, why these semi-products are widely used in the furniture industry. Their ease of use is also easy to clean, as well as beech fries are very resistant to mechanical damage and abrasion. Beech strips are also brewed and heat treated.

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TRADE PARTNERS



BRANCHES



AGENTS



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MATERIALS FOR THE FURNITURE AND CARPENTRY INDUSTRY

LICON INTERNATIONAL

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