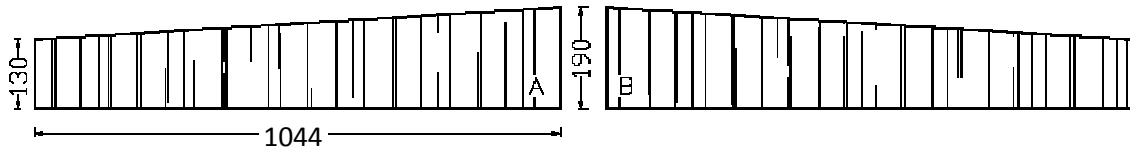


## LISTONE GIORDANO NATURAL GENIUS MEDOC

High-end two-layers engineered hardwood floor with a top layer and crossed-fibres birch plywood support.



### SPECIFICATIONS

PRODUCT	WIDTH	LENGTH	TOTAL THICKNESS	TOP LAYER*	SUPPORT	INSTALLATION SYSTEMS
Medoc filo di lama	130 - 190 mm	1044 mm	12,5 mm	3,5 mm	multilayer birch plywood	glued

\* Due to the handcrafted processes emphasizing the surface of these products, the top layer thickness may differ from one spot to the other. The above mentioned thickness is related to parts of the wooden boards not subjected to surface's treatments.

### OTHER TECHNICAL INFORMATION

<b>TOP LAYER FEATURES</b>	Wood surface with sawings, large filled cracks and craftsmanship
<b>TOP-SUPPORT LAYER GLUING</b>	Conforms to the requirements of the <i>class D4 of the UNI EN 204 regulation</i> Conforms to the requirements of the <i>JAS type II norm</i> (cycle made of 2 h in hot water at 70°C and then immediately 3 h in an airy stove at 60°C)
<b>PROFILE</b>	Special "groove-groove" milling on the heads and the lips. The boards interlock on all four sides during the installation by means of special solid wood "loose tongue". Chamfer on all four edges.

The natural characteristics of typical varied grain, the presence of knots and the distinctive crafted finishes might create cracks sometimes not filled.

These standard features of the product may become marked should the wood floor be exposed to particularly severe climate conditions.

Natural Genius woodfloor collection with crafted treatments features non homogenous, dimensional and aesthetic characteristics typical of a hand-made product. Therefore prospective tolerances related to the planarity of the boards, or even within the

individual board (i.e. planarity, roughness or colour tone of the surface) are not to be considered by any means a defect but on the contrary the craftsmanship value of the products itself.

The distinctive crafted finishes can create some irregularity ("broken fibre") and splintering of the wood surface (particularly on the contour of the boards) that may trap the cleaning cloths. Please be aware of this roughness and splintering when walking on the floor without shoes.

According to the craftsmanship of the surface the hardwood floor may present signs of the passing of time and non homogenous worn (more wear on the upper parts and less wear on the lower ones). A specific cleaning and maintenance will be required.

## FINISH

Listone Giordano® Natural Genius Medoc filo di lama is available with the following finish.

### OLEONATURE

Air-dried natural oils-based finish. The oils-based finish incorporates colour pigments in some products. Before finishing is applied, some wood species undergo a brushing treatment, to remove the soft parts, highlighting the wood pores and fibres. Thanks to the industrially applied final protective coating, the Oleonature finish ensures easy maintenance compared to other oil finishes and better resistance against household liquids' penetration.

Products with natural oil finishing tend to get a yellowish colour tone, should these products be kept, for instance, in the boxes for a long time or not being exposed to light and air. It's an utterly natural and transitory phenomenon. This effect is reversible within a few days and the wood can restore its original appearance, once the boards are exposed to air and direct sunlight whilst in an environment with artificial light it may take up to few weeks.

Wood is a natural material, therefore colour tone and absorption of the finish may vary from one board to the other, or even in the same board according to the variation of its fibre. These colour tone variation is visible even after the application of colour pigments proving the authenticity and the uniqueness of each board

## GRADE

Varied grain figure and colour tone. The boards have a widespread presence of large knots adherent, firm or partially filled; sometime partially filled or open cracks and typical characteristics of the wood species may occur.

## GRADES CHARACTERISTICS

(according to the requirements of the european norm EN13489 – Multi-layer parquet elements – Free class)

Characteristic	HERITAGE
Sound sapwood	Not permitted
Knots (sound, intergrown and unsound)	All permitted without limit
Yellow stain	Permitted
Checks	Permitted
Bark pockets	Not permitted
Lightning shake	Not permitted
Curly grain	Permitted
Slope of grain	Permitted without limit
Sound heart	Permitted
Colour variation (including blackheart, red heart, etc.)	Permitted
Stick marks	Not permitted
Medullary ray	Permitted
Biodeterioration	Not permitted

Non-visible parts: all features permitted without any limitation as to size or quantity if these do not impair the strength or wearing quality of the parquet flooring.

During the production and quality control processes all the above dimensions and characteristics are optically estimated from skilled operators, without using any measurement device.

For this reason allowance are permitted in the above dimensional data.

## CERTIFICATIONS



### BIOSPHERA

Biosphera is a marking system based upon Listone Giordano's green procurement policy to provide consumers with brief, clear and useful information on the origin of raw materials.

Listone Giordano® Natural Genius Medoc filo di lama offers in its top layer the *Biosphera certified* mark that identifies raw materials whose forestry management is certified according to recognized standards at the international level (FSC, PEFC, SFI, OLB, LEI, etc.) and in its support layer the *Biosphera controlled* mark that identifies raw materials whose legal sourcing and forestry management, although not yet certified, is backed up by specific audit and related papers.

The full list of the products certified is available on the technical sheet EC 2 - Biosphera certifications on Listone Giordano® products.



### CE CERTIFICATION

All the products of the collection Listone Giordano® Natural Genius Medoc filo di lama strictly comply to all CE rules regarding hardwood floors.



### AIR EMISSIONS

Certification on the emission level of volatile substances in the rooms that present a toxic risk through inhalation.



### FORMALDEHYDE

All the products of the collection Listone Giordano® Natural Genius Medoc filo di lama comply to the class E1, which is amongst the strictest European regulations (UNI EN 14342).



### CARB CERTIFICATION - ATCM 93120

The updated product's list incorporating plywood panels that complies to the CARB Phase 2 standard requirements regarding formaldehyde emissions is available on [www.listonegiordano.com](http://www.listonegiordano.com)



### ANTI-BACTERIAL FINISH CRYSTALCARE

Oleonature finishes are antibacterial certified by CATAS S.p.a laboratories according to ISO 22196:2007 regulation.



### DIBt CERTIFICATION

DIBt (the German Structural Engineering Institute) certifies that all Listone Giordano® wood floors respect the strict emission limits of Volatile Organic Compounds (VOC) required by the AgBB/DIBt regulation.



### ISO 9001

Quality Management System certification.



### ISO 14001

Environmental Management System certification for the Miralduolo di Torgiano (PG) factory

### MADE IN

All the products of the collection Listone Giordano® Natural Genius Medoc filo di lama are Made in Italy.



**FIRE REACTION CERTIFICATION**

In the following table you can find fire reaction classes of the various products:

PRODUCT	FINISH	FIRE REACTION CLASS
		(according to the requirements of the EN14342 regulation on the CE mark)
Listone Giordano® Natural Genius Medoc	Oleonature	<b>Fire proof oil: Cfl-s1</b>   Oleonature: Dfl-s1

## **IMPORTANT INFORMATION ABOUT HARDWOOD FLOORS**

### **WOOD AS A LIVING MATERIAL**

Wood is a “living” material interacting with the environment therefore it is affected by exterior elements such as light, UV rays, temperature, humidity and daily use (wear and tear).

#### **COLOUR**

The colour of wood largely depends upon particular substances known as extractives which change due to the exposure to light. This results in alterations and more or less marked variations from the original colour of every type of wood flooring. Due to the higher extractives content in tropical wood species, these species are especially prone to chromatic changes usually evolving into a darker brown colour tone. Iroko and Doussié are two of the species that experience a stronger colour variation. Doussié especially may show localized effects of rapid and intense oxidation even on boards originally of the same colour tone. Under specific conditions these alteration traces of mineral substances, where are a natural part of the wood structure, may become more evident. Teak may initially show less evident colour variations. These variations tend to mitigate and homogenize to a middle-clear tones overtime. Even Oak, however characterized by a good colour stability in relation with other wood species, is due to change overtime and tends to warmer colour tones, whilst intensifying the yellow hue. This phenomenon occurs even in colour-pigmented products (i.e “Michelangelo” collection).

The long exposure of some wood species to intense and direct sunlight, such through window-panes, may cause discolouration (UV rays produce these effects on materials other than wood). In order to prevent this phenomenon, we recommend the use of curtains or special UV filtering films to be applied to the glass panes.

#### **MEDULLARY RAYS (Silver Figures)**

Strips from a perfect radial section of a log in some wood species (especially Oak and Beech), feature straight grains and typical silver figures, the so-called medullary ray (still evident in the colour finishes as well). This type of graining is the result of the perfect radial cut of the log and enhances the quality and the value of the wood product. In addition to the the better aesthetical appearance it's an indication of improved technical performance (regularity of the fiber, dimensional stability water proof, impermeability, etc.).

#### **SAMPLES**

Wood is a natural material, not characterized by uniformity-regularity: two elements of the same piece of timber will never have an identical aesthetic appearance. Therefore samples made of few wooden boards can only represent an illustration or general idea and cannot fully show the different tones, grains and uniqueness.

As mentioned above, wood is prone to alter its colour tone overtime, due to exposure to light and air. Therefore a recently installed wood floor may typically show a different aesthetic and colour tone compared to a sample panel of the same product which has been exposed to natural light for a period of time.

#### **WEATHER CONDITIONS**

Wood is naturally affected by dimensional variations due to humidity and temperature of the environment. In order to avoid damages and unwanted effects, the climate conditions of the rooms should meet the following requirements: air temperature must remain between 15°C and 30°C and relative humidity must be between 45% and 65%. These conditions provide as well a suitable and healthy environment to live in. The prolonged exposure to a very dry atmospheric condition can lead even a modern and technologically advanced multilayer product to shrink and gaps to appear in between wood strips. This phenomenon is reversible and gaps are due to close again once correct climate conditions are restored.

Extreme dryness or high humidity in the air may generate a certain level of stress and alterations in the wood structure, very high at times, in the worst cases this can create micro-fractures on the top hardwood layer (due to the sliding of the interface in between growth rings consequential to the exceeding elastic limit). For these reasons it is compulsory that proper climate conditions are to be maintained both during the installation process and afterwards, even if the premises are unoccupied.

In some situations, particularly in the winter months to ensure compliance with the conditions mentioned above the use of an air humidifier may prove necessary. In the case of heated floors, in addition to the requirements relating to temperature and humidity of the air, the temperature's limit of the floor surface, when the system is in function, must not exceed 27°C.

### **FRACTURES**

The appearance overtime of micro-fractures on the top hardwood layer is a natural phenomenon and inevitable in statistic terms even if recommended climate conditions are to be maintained.

### **HARDNESS**

The individual hardness of all wood species processed to manufacture products featured in this pricelist are suitable to become hardwood flooring. However surface indentations may arise in even the hardest of woods, if the hardwood floor is subjected to knocks, falling objects, in addition to highly concentrated weight (stileto heels, ladder, etc.).

### **HANDCRAFTED WORKS**

Atelier and Natural Genius wood flooring collections with crafted treatments feature non homogenous, dimensional and aesthetic characteristics typical of a hand-made product. Therefore prospective tolerances related to the planarity of the boards, or even within the individual boards (i.e. planarity, roughness or colour tone of the surface) are not to be considered by any means a defect but on the contrary the craftsmanship value of the products itself.

The distinctive crafted finishes can create some irregularity and splintering of the wood surface where cloth used for cleaning and maintenance may get trapped. These elements of irregularity and splintering are to be considered (taken into account) when walking bare feet on the floor.

### **VARNISHES**

The wear and tear is prone to alter the shine level of the floor surfaces as time passes, especially in high-traffic areas. A correct maintenance can keep this phenomenon under control.

### **NATURAL OIL FINISHES**

Products with natural oil finishing tend to get a yellowish colour tone, should these products be kept in the boxes for a longtime or not being exposed to light and air. It's an utterly natural and transitory phenomenon. This effect is reversible within a few days, once the wood boards are exposed to direct sunlight whilst in an environment with artificial light it may take up to few weeks before restoring the original appearance. The oils-based finishing has the characteristic to continue over time to permeate the wood fibers even while the material is still inside the packaging boxes. The possible appearance of surface dryness that you should notice on newly installed planks, will be restored with the application of the specific maintenance product after installation.

### **USE AND MAINTENANCE INSTRUCTIONS**

Instructions of the correct use and maintenance of the wood flooring are available in the dedicated page of the website [www.listonegiordano.com/international](http://www.listonegiordano.com/international) featuring the technical sheets.

**We recommend checking it when selecting the product.**