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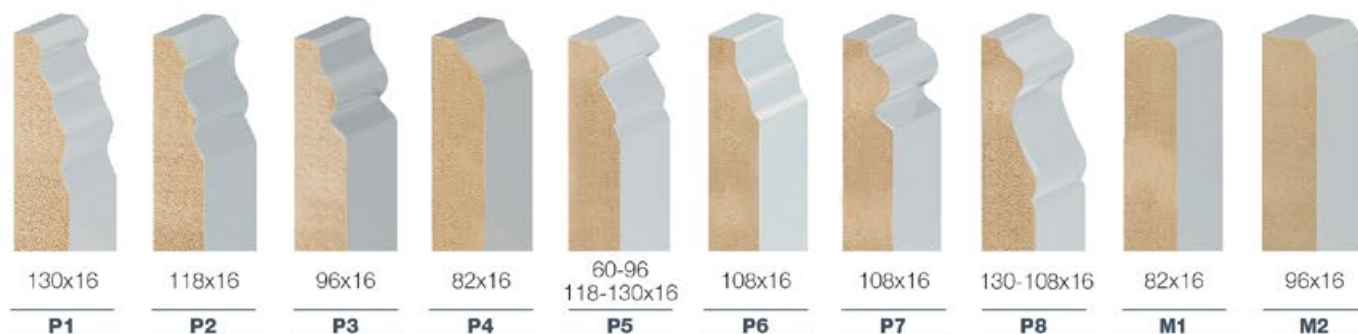
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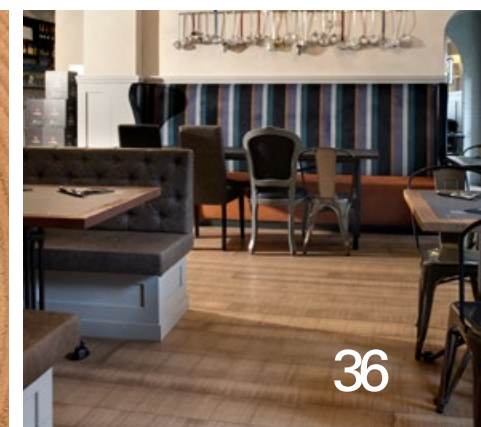
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I LOVE PARQUET

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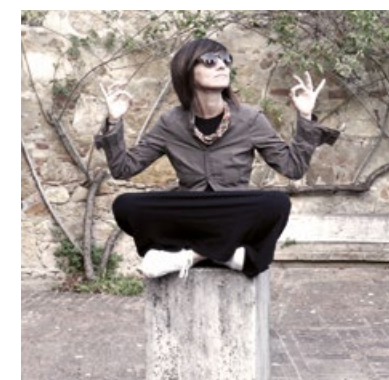
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CHIMIVER has the solution for IMPREGNATING, RENEWING, NOURISHING
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Find out more!

ILOVEPARQUET EDITORIAL

WE HAVE TO PUT PLANTS EVERYWHERE!



I even got my son (nearly eight) involved. He was highly amused to hear about the Boquilla trifoliata, which can mimic the colour, shape and size of the leaves of the nearest plant (like a chameleon!). On reading Mancuso I discovered that plants communicate, flee from predators, protect themselves from stress... In other words, they are not as stupid as I once thought.

I didn't say this. Stefano Mancuso said it and wrote it. He is the world famous scientist who manages the International Vegetal Neurobiology Laboratory at the University of Florence and who has dedicated his life to plants. I am ashamed to confess that I had never heard of Mancuso until two months ago. Andrea Margaritelli who, like Mancuso had received the 'Human Ecology Award' (exactly a year later) spoke to me about him recently. (You can see the interview on page 72, but that's another story). So, I began to look for information and read interviews, essays and articles which he had done as well as watching his Lectio Magistralis on Youtube. In short, I became a fan of his in one week.

But, most importantly, I discovered that between 95 to 99.5% of the biomass on our planet is made up of plants. The Plant Nation is the real planetary power. More than China, the United States or Martians! Without plants - as Mancuso reminds us in his latest essay ("The Plant Nation") - animals would not exist. Maybe even life itself would not exist on this planet. Just think about photosynthesis: plants produce all the free oxygen on the planet and all the chemical energy used by other living creatures. I would never have even thought about it so deeply... So this is my rallying cry: "We have to put plants everywhere: in the walls, on the roofs, on facings. Deforestation should be considered a crime against humanity".

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Cersaie 2019
BolognaFiere - Bologna
• 23 - 27 september 2019
www.cersaie.it

CERSAIE'S NEW ERA

To reflect the many changes the show has undergone in recent years as well as broader developments in the world of architecture and design, Cersaie - the foremost international event for designers of ceramic and other surface coverings and bathroom furnishings - is adopting a new image. Called Open Cersaie, the new exhibition concept is to focus on diversity and reach out to new target audiences. In keeping

with this idea, a pictogram and a new logo were created to give Cersaie a more comprehensive and institutional brand architecture capable of meeting the challenges of an increasingly competitive world. The same open vision is found in the image strategy and media plan, which aim to establish Cersaie amongst the key international events for innovators and to reach out to new audiences through increased investments in the digital sector. The website www.cersaie.it has also been restyled, featuring larger homepage sliders with more visually-appealing images and greater space devoted to videos and the site's social media profiles.



Architect@Work Paris 2019
Event Center - Paris
• 26 - 27 september 2019
paris.architectatwork.fr

ARCHITECT @WORK BACK TO PARIS

The unique and innovative exhibition layout of Architect@Work was created by C4 - Creative Fo(u)r. In order to ensure the optimal contact between exhibitors and visitors, visitors are automatically led along a

route that winds its way through small, uniform modules. First contact takes place at the stand. The innovations showcased by the exhibitors are presented in corner units and on the walls. In each box, which comprises four corner units, a multimedia console takes centre stage (for PC/laptop). At Architect@Work, traditional aisles are transformed into lounge areas: places to enjoy a drink, to chat and to provide further explanation about innovative products, applications or services.

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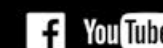
The print is UV and light resistant - be it in direct sunlight or in humid rooms.

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Saudi Build 2019

Riyadh International Convention & Exhibition Center – Saudi Arabia

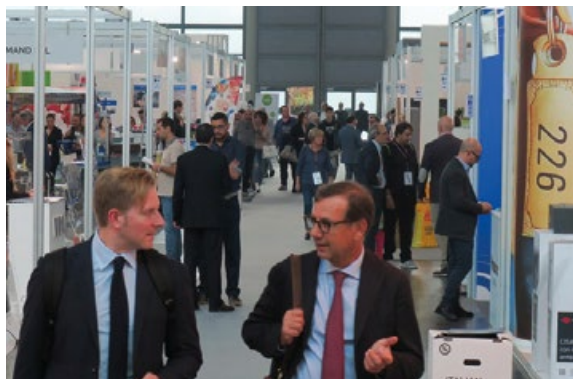
• 7 - 10 october 2019

saudibuild-expo.com

A PREMIUM EXPERIENCE

Saudi Build is an absolute must for the companies that work in or support the construction industry, offers countless opportunities in the Saudi construction sector, serving as a platform for exhibitors to show the latest industry innovations, and to develop their business opportunities.

Displaying innovative infrastructure capabilities, inspiring advancements in the building arena and featuring state-of-the-art technologies in the field of materials science, Saudi Build 2019 is the premium trade exhibition highlighting the future of construction in the Kingdom.



SIA Hospitality Design 2019

Rimini Fiera – Rimini

• 9 - 10 october 2019

en.siaguest.it

THE ONLY TRADE SHOW IN ITALY DEDICATED EXCLUSIVELY TO THE HOSPITALITY INDUSTRY

From design to distribution, SIA Hospitality Design represents a global platform that is unique in the world, and is inspired by the Italian vocation to create value, search for good things, and a taste for beauty, innovation and research. A complete event - with the trade TTG Travel Experience and SUN Beach&Outdoor Style - that promotes the whole value

chain, capitalising on Italian supply-side excellence, the dynamism of Italian demand worldwide, the potential of markets and international destinations to foster business opportunities with Italy's most innovative companies. An Italian fair that speaks a global language. The last edition of TTG Travel Experience, SIA Hospitality Design and SUN Beach&Outdoor Style registered an attendance figure of 73,821 professionals and 2,850 exhibitors.

More natural than nature!

FRIULPARCHET
PASSIONE ITALIANA PER IL LEGNO

For a real natural wood floor



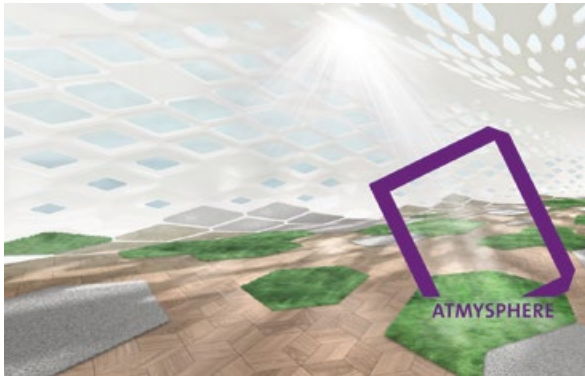
The Big 5 Construct Kenya 2019

Kenyatta International Convention Centre – Nairobi, Kenya
• 5 - 7 november 2019
www.thebig5constructkenya.com

KENYA'S CONNECTION TO THE WORLD OF CONSTRUCTION

The largest construction event of Kenya is back! The Big 5 Construct Kenya is the official exhibition of Kenya's National Construction Week making it the ideal platform to meet buyers for building's products. The visitor profile covers the entire ambit of the construction, architecture and design industry which includes architects, civil

engineers, contractors, electrical engineers, HVAC consultants, interior designers, lighting consultants, mechanical engineers, procurement managers, project managers, purchase heads, structural engineers and so on. In a nutshell, all the industry professionals who are involved in the commissioning, design and completion of a project will stand to gain from The Big 5 Construct Kenya.



ATMYSHERE

After a successful Domotex 2019, preparations are already ramping up for the 2020 edition of the world's leading trade show for carpets and floor coverings. The upcoming show, to be held from 10 to 13 january 2020, has Atmysphere as its keynote theme, symbolizing its central focus on all those qualities of floors and floor coverings that contribute to wellbeing, naturalness and sustainability. Examples of products from the floor coverings industry that possess these qualities include floors with acoustic

properties or sound-insulation components; carpets that bind fine dust particles or have thermal insulation properties; resilient floor coverings that are hypo-allergenic; and natural-wood floorboards that improve the interior climate by capturing excess humidity and releasing it again when the air in the room is dry. Other qualities that enhance positive indoor atmospherics include softness and pleasantness to the touch, sustainability, and aesthetic details that help transform rooms into oases of personal wellbeing.

Domotex 2020

Hannover Deutsche Messe – Hannover
• 10 - 13 january 2020
www.domotex.de

Discover new Klindex Wood Line





EUROPEAN MARKETS ARE GENERALLY SHOWING STABLE TO SLIGHTLY POSITIVE TRENDS

The Board of Directors of the European Federation of the Parquet Industry met on April 2019 and discussed amongst others both the parquet situation and recent economic indicators on the European markets. The European parquet markets are generally showing stable to slightly positive trends. When compared to the same period last year, the provisional results for the three first months of 2019 indicate stable or moderately increasing parquet consumption except for Belgium, the Netherlands, Switzerland and the United Kingdom which are reporting limited declines in parquet sales. On the other hand, parquet consumption restarted to grow in Germany. While there is no shortage of raw material for the time being, affordability is decreasing also for layers (HDF, plywood) other than the top one. A brief per country recap is provided in the table below.



AUSTRIA

The Austrian parquet sales slightly increased by 1% during the first quarter 2019 compared to the first three months of 2018.



BELGIUM

Available information indicates that parquet consumption fell by 4% during the first quarter 2019 compared to the same period last year, reflecting among others the competition from "wood look" floor coverings.



BALTIC STATES

Baltic countries' markets remained stable during the first quarter of the current year.



CZECH REPUBLIC

Data points to a positive development on the Czech parquet market for the three first months of 2019.



DENMARK

The Danish parquet market remained flat, supported by the performance of residential building which is observable in the whole Nordic Cluster (Denmark, Finland and Norway).



FINLAND

Parquet sales were stable on the Finnish market during the first quarter 2019 – residential market is performing well while retail is declining.



FRANCE

After a difficult fourth quarter 2018, the French market developed slightly positively during the three first months of the year 2019. As the first quarter 2018 was also relatively good, this can be seen as an encouraging trend although the market is lacking visibility, especially as some contracts are reaching an end.



GERMANY

Parquet sales upturned by 4% in Germany during the first quarter 2019. Even if the first quarter 2018 showed a very low level of consumption, the current trend reflects better market conditions.



ITALY

The Italian parquet market remained flat during the three first months of the current year. No improvement is expected as there are some uncertainties regarding the forthcoming EU elections.



NETHERLANDS

The information received points to a decline of the parquet sales (-4%) on the Dutch market during the first quarter 2019, reflecting the competition from "wood look" floor coverings.



NORWAY

Data indicates that the Norwegian market remained flat during the three first months of 2019, which

is encouraging compared to the significant decreases in parquet consumption reported last year.



POLAND

An increase by 2% of the parquet sales is reported for Poland during the first quarter 2019 compared to the same period last year.



SPAIN

The Spanish market was stable during the first quarter of the year 2019, echoing the uncertain political context.



SWEDEN

Parquet consumption continued to slightly rise by 1% during the first quarter 2019 compared to the first quarter 2018. Renovation is the main driver of the Swedish market.



SWITZERLAND

Data indicates that parquet consumption fell by 2% in Switzerland during the three first months of 2019, reflecting the completion of new construction projects.



UNITED KINGDOM

Information available points to a slight decline by 1% of the parquet consumption on the British market during the three first months of 2019. The influence of the Brexit is starting to be discernible.

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www.ravaiolilegnami.com





MOHAWK ACHIEVES LEED GOLD WITH ITS NEW YORK SHOWROOM

Mohawk Group has officially attained LEED v4 Gold certification and WELL Certification at the Platinum level for its flagship showroom in New York. Designed by Gensler, the 13,000-square-foot Chelsea retail

space is one of the few projects in the world to be certified under both programs and associated levels. The showroom's biophilic inspiration, open and modern aesthetic, and building credentials express the company's commitment to innovative, stylish flooring and sustainable design.



BONA TURNS 100 YEARS

Bona develops products for the installation, maintenance and renovation of wood floors, and 2019 is all about celebration for Bona. It's the year that Bona celebrates that they have been around for 100 years. To acknowledge this celebration, was created a special Bona anniversary logo and tagline: "Bringing out the beauty in floors since 1919".

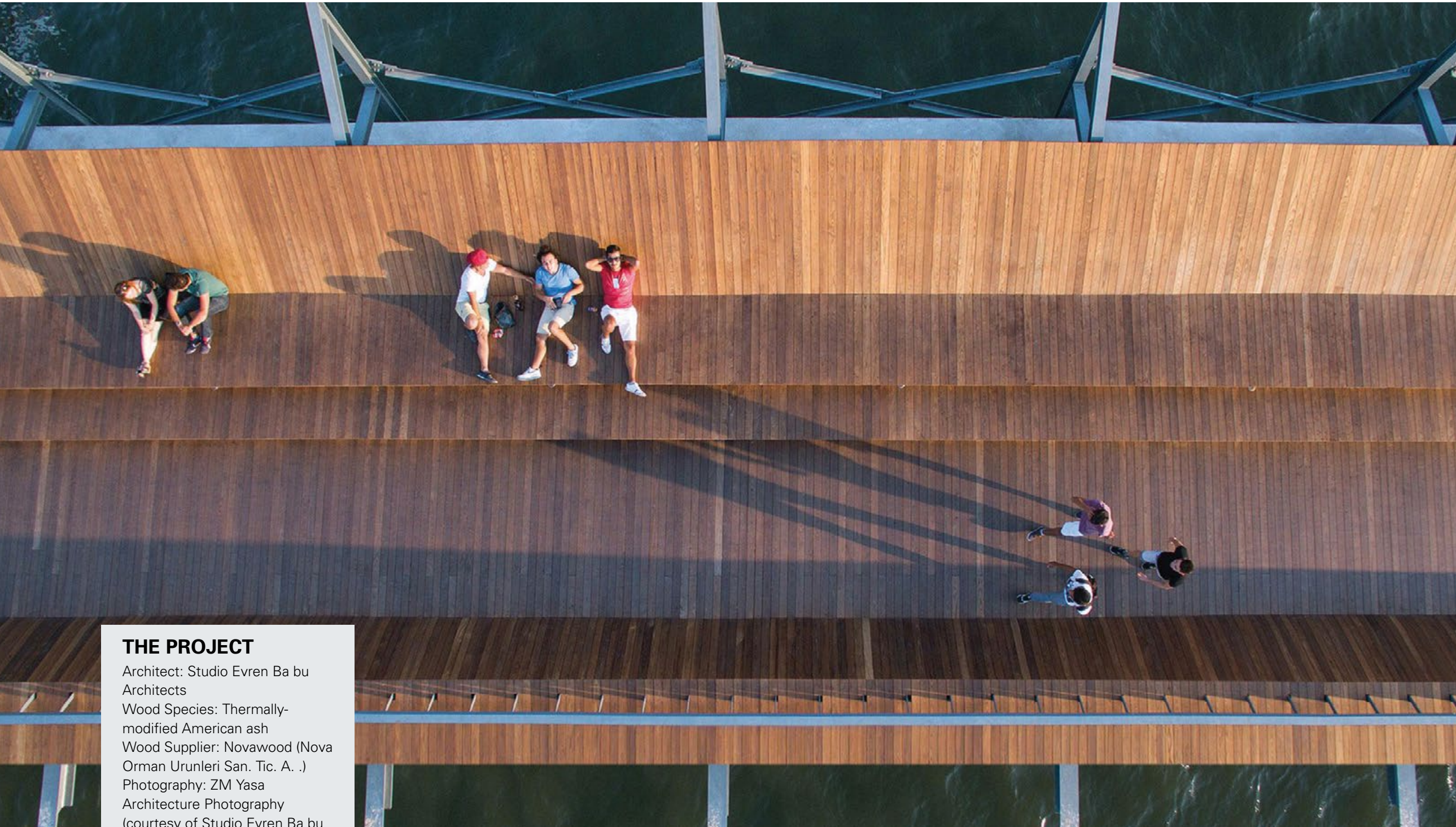


PROSUPPORT TUBE SYSTEM

PROSUPPORT TUBE SYSTEM is an adjustable and modular supports system for outdoor floating floors from the height of 29 mm to 1000 mm. The system is composed of 1 base, 2 screws, 1 flange, 2 heads and several pvc pipes to obtain the requested height. Both heads, according to the screw, can be **fix** or **self-levelling**.



EASY WAY OF LIVING



THE PROJECT

Architect: Studio Evren Ba bu Architects
 Wood Species: Thermally-modified American ash
 Wood Supplier: Novawood (Nova Orman Urunleri San. Tic. A. .)
 Photography: ZM Yasa Architecture Photography
 (courtesy of Studio Evren Ba bu Architects)

The 'Bostanlı Footbridge' and 'Bostanlı Sunset Lounge' promise a new urban space to experience different forms of idleness

TITO FRANCESCHINI

The 'Bostanlı Footbridge' and 'Bostanlı Sunset Lounge' have been designed by Studio Evren Başbuğ Architects as part of the 'Karşıkiy' concept created for the 'İzmirSea' coastal regeneration project. These two architectural installations, which are positioned in close proximity and in reference to each other, have generated a new, integrated coastal attraction, where the Bostanlı Creek flows into the bay, on a very special and unique spot due to the geometric form of the coastline. Opened in July 2016, the site has become one of the top public attractions in Karşıyaka, İzmir and has been embraced and visited by residents from all over the city. "Our client was the Metropolitan Municipality of İzmir and they didn't really have a very detailed brief for this site but they rather had a general motivation to strengthen the links between the urban coastline and the inhabitants of the city. As such, these two urban installations, facing each other in the same spot, sustain the general framework defined in the 'Karşıkiy' proposal. Natural, independent, ingenious

and inclusive; both designs serve as genuine ‘counter-spaces’ in the urban setting,” said Evren Başbuğ, Founding Partner, Studio Evren Başbuğ Architects. In alignment with the masterplan of the ‘Karşıkiy’ concept, the ‘Bostanlı Footbridge’, was proposed to connect two sides of Bostanlı Creek and would serve as one of the missing pieces of the continuous coastal promenade. With its slightly bow-shaped longitudinal section and specially designed support geometry, the bridge allows for the passage of small boats and provides access to the floating pontoon located on the creek. The ‘Bostanlı Footbridge’, oriented in its unique position and providing a view of the bay on one side and the city on the other, has been designed with an asymmetrical cross-section. This special section is formed by several cascading thermally-modified American ash boards, produced and provided by Novawood, installed on a steel frame, allowing users to enjoy the view of the bay either sitting or sprawling. In this way, the bridge goes beyond being just an infrastructural urban element, solely used as a thoroughfare, and instead, serves as a public leisure and attraction piece in relation to its environment. “Given that the site was so unique in terms of its location and geography, as designers we did not need any more inspiration from the outside. The ‘Bostanlı Footbridge’ and ‘Bostanlı Sunset Lounge’, both promise a new urban space to experience different forms of ‘idleness’, by employing the social, geographical and historical backgrounds of this unique location. These new coastal installations fit perfectly with the ‘Easy Way of Living’ vision established for the city of İzmir, by the ‘İzmirSea’ coastal regeneration project,” added Başbuğ. The ‘Bostanlı Sunset Lounge’, which

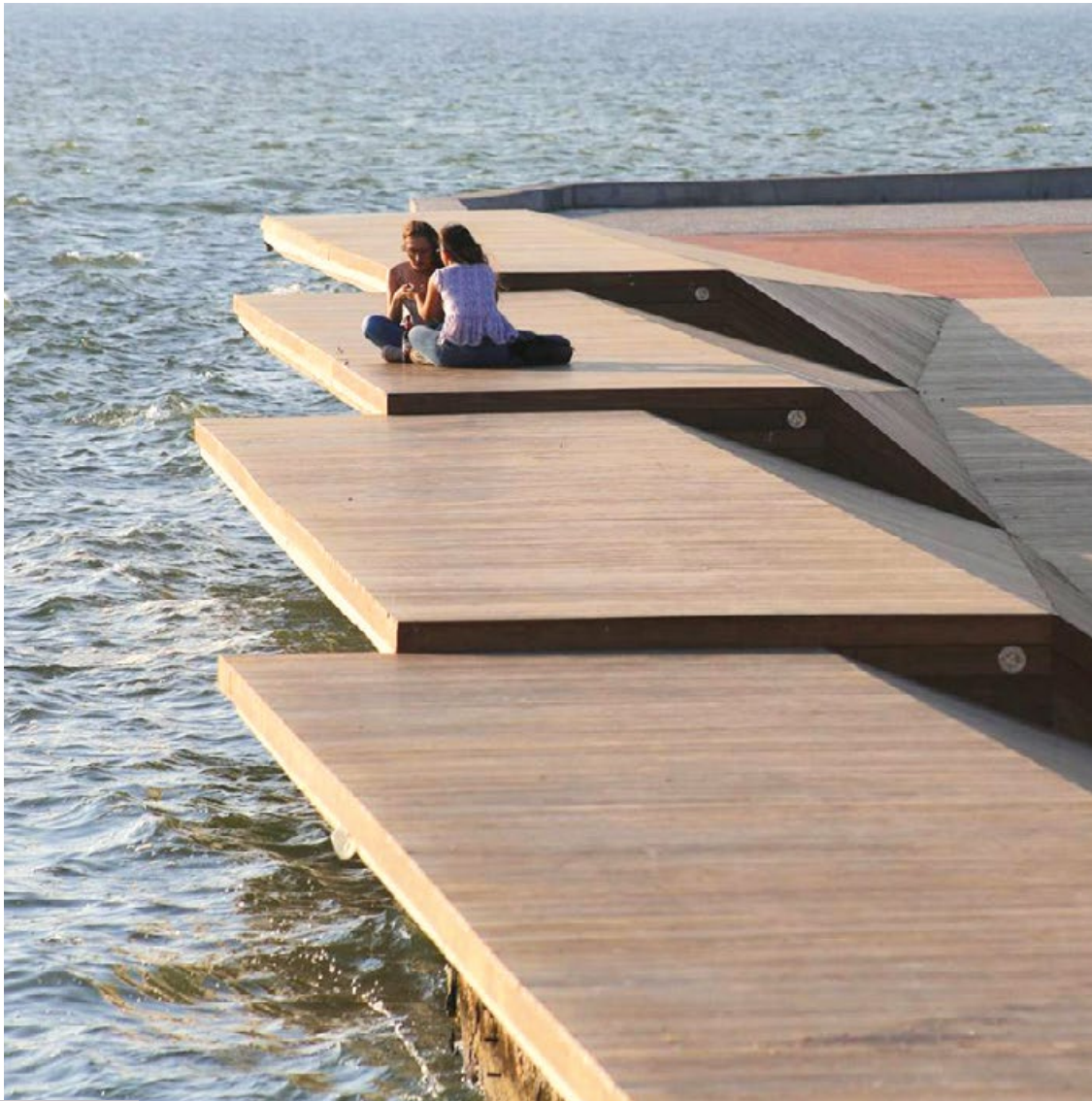
lies on one of the few coastal fragments facing directly west in Karşıyaka, is also made from a series of thermally-modified American ash boards from Novawood, which form an inviting urban surface, stretching between the artificial slope covered with trees and the embankment itself. The simplicity and fluency in the surface geometry encourage the user to experience a more direct relationship with the setting sun and the sea. Just as in the case of the footbridge, the lounge gives a welcoming feeling, which is mostly down to the natural texture of the thermally-modified ash. Built from a series of wooden platforms reclining on a wooded hillside, all the way down towards the sea, the design encourages users to achieve a closer connection with the sea. In this way, the lounge helps users to re-discover a long-forgotten İzmir ritual, which is still present in the urban memory, and invites city residents to watch the sunset and spend quality time together in the evening.

WOOD AGES NICELY

“Given that the site is on the sea coast, all the materials are open to the corrosive effects of salty sea water. Also as a Mediterranean city, İzmir has a relatively high percentage of sunny days, leaving the thermally-modified ash vulnerable to the ultraviolet sunlight. These conditions made us think twice at the design phase but we decided to give it a try. It has been almost a year since the opening, and we frequently visit the site to see if there is any significant material degrade, but the wood is performing well. Wood ages nicely,” added Başbuğ. According to Yakup Kayatas, General Manager, Novawood, Turkey has a long and rich history of working with wood. However, the use of wood in Turkey dropped

significantly from the 1940’s onwards with cement, stone and steel being preferred. Whilst this was accepted for a while, architects and the design community have not been satisfied with the cold and pale appearance of non-timber materials used in urban landscaping projects. With this in mind, Novawood was established to pioneer the use of thermally-modified timber, which offers specifiers the option to work with a durable and dimensionally stable product.

“With its proven track record, Novawood TMT ash products have been widely specified in many different projects. To date, our products have been a part of urban projects across the globe, totalling around 6 million square meters (or approximately 65.5 million square foot),” said Kayatas. “In the case of the ‘Bostanlı Footbridge’ and ‘Bostanlı Sunset Lounge’, we worked closely with both the İzmir Municipality and Studio Evren Başbuğ Architects to provide a solution that reflects the beauty of the coast of Karşıyaka. Thermally-modified ash was the right fit from the outset and we are very proud to



AMERICAN HARDWOOD EXPORT COUNCIL

For over 25 years the American Hardwood Export Council (AHEC) has been at the forefront of international wood promotion, successfully building a distinctive and creative brand for U.S. hardwoods. AHEC’s global programme of activities secures a future for American hardwoods by demonstrating the performance and aesthetic potential of these sustainable materials, while providing valuable creative inspiration and technical advice.

www.americanhardwood.org

have been involved with this ground-breaking project.”

“After witnessing the reaction of the public to these new urban installations and observing how they use the spaces (exactly as we anticipated, actually), we as the designers are certain that timber was the only option for this project. In combination with the basic design ideas, the wood plays a major role and gives the project all the urban character it needs. We can definitely say that these installations would not be as successful as they are now, if we had used any other material,” concluded Ba bug.

AMERICAN ASH

American ash is ideal for bending and turning. It is strong and tough with distinctive grain, character and colour.

LATIN NAME: Fraxinus species, including Fraxinus americana

OTHER COMMON NAMES: northern ash, southern ash
American ash trees grow commonly throughout the eastern United States in mixed hardwood forests, from the north in New York State to the southern States along the Gulf of Mexico, and everywhere in between. They grow high in the mountains and low on the plains and coastal areas giving rise to great variety of character. With such widespread distribution in latitude, climate and soil conditions, there are significant variations in ash depending on location, in particular between the slower grown northern and faster grown southern trees.

There are also sub-species that add to this variety. Despite some longer-term threats by forest pests and disease to the ash standing stock of timber, ash is a prolific species.

5.1 % of total U.S. hardwood growing stock. American ash is growing 12.1 million m3/per year while the harvest is 6.1 million m3 per year. Net volume (after harvest) is increasing 6.0 million m3 each year. The 2014 inventory indicates that U.S. ash growth exceeds harvest in all major supplying states except Michigan and Ohio, which are central to the Emerald Ash Borer (EAB) infestation. Ash mortality rates and removals are expected to rise in the immediate future, likely in excess of growth in some states, due to the EAB infestation.

Wood you like ?

Original Parquet widens its range of "Herringbone" with a new special product, in Oak, with unique color and Italian-herringbone pattern.

This new item is named Bianco Alpino and it's an Herringbone in Rustic Oak with bleached finish, a modern product with a light tone and bleached treatment that elegantly reveals the vein of the wood.

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OH MY

WOOD!



Inspired by a handbag

Part of the 'Objets Nomades' collection for Louis Vuitton, Patricia Urquiola's Swing Chair embodies the founding spirit of Louis Vuitton - how to make travel more comfortable for the elite and well-heeled. Made from nylon rope, she uses leather cushions for the perfect splash of rich color. And the chair has gold-plated hooks.

louisvuitton.com



Elmetta

Elmetta is a decorative, easily portable lamp, made of two main classical elements, a metal diffuser and a bent wood handle. The two elements, necessary for each other, create together a perfect contemporary set.

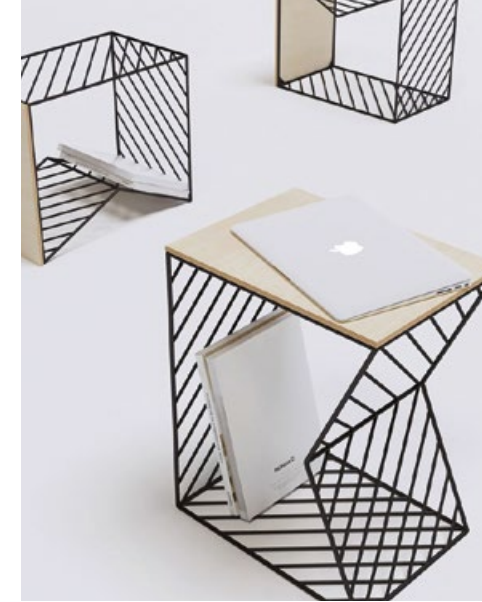
incipitlab.com



In balance

'Equilibrium' bookcase relies on stacked angled modules that not only create a playful aesthetic effect but also integrate bookend functionality directly into the shelf design; is capable of holding over 120 pounds (54 kg) of weight over its five compartments. A walnut veneer exterior is produced with either white, celeste blue, or graphite interior, with custom colours available by request.

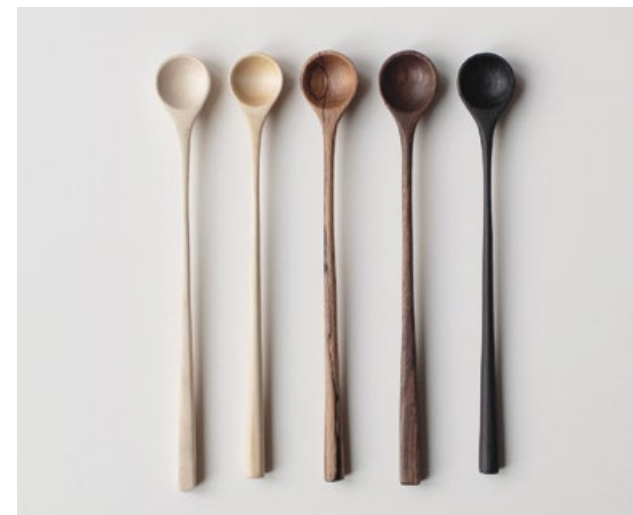
malaganadesign.com



Bedside table

When the wood is above, it can be used as a stool, side table and for storage. Turn it around, and the part flat of the grid is on top, so it can be used as storage or side table. Finally, with the 'V' form upward it can be used as storage. The main materials which conforms Bedside table is plywood and steel rods. Two materials which uses a lot Fail Gilmanov. This materials, between them, works very well for the colour contrast and the temperature of the materials.

[instagram.com/fagi_design](https://www.instagram.com/fagi_design)



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hopeinthewoods.com

OH MY WOOD! | SMALL BEAUTIFUL THINGS

Nut ceiling

These lights feature a blend of premium materials, brought together in a creative and minimal design. Solid ash wood with grain textures and a lacquered finish complements the smooth surface of the white aluminum. A leather detail in dark brown connects the two sections while adding an eye-catching accent to the design.

mzpa.co



Intense black

This coffee table, characterized by a mysterious intense black colour and a particularly marked texture, is made of European field elm (Ulmus minor) and charred using the ancient Japanese Shou Sugi Ban technique. This technique makes the wood stable, durable, water repellent and even fireproof in a completely natural and ecological way.

giannicantarutti.it



PALM TIMBER FOR FLOORS



Some interesting
Catas research
about beginning to
'characterize' this
little-known material
and compare it to other
better known timbers

FRANCO BULIAN,
VICE DIRECTOR AT CATAS SPA

Some time ago some "wood" samples of the Dum or Doom palm (*Hyphaene thebaica*) were received at Catas. They had come from the sub-equatorial coast of Kenya and Tanzania. The aim was to evaluate some of this material's characteristics to see if it would be possible to use it in the wood furnishing sector. The research was carried out by Catas in collaboration with Leansor of Udine, the supplier of the material. In these notes I am presenting some of the information gathered so that this material can become known and give us the first points for hypothesising on its use for making floors.

PALM "WOOD"

Palms belong to a plant family classified as monocotyledon angiosperm. In many African and Asian countries there are large palm plantations for producing fruit (dates, coconuts), and, in particular, palm oil which is a widely-used "fat" in the food industry worldwide.

When the production cycle is exhausted at about 70 years from planting, the trees are cut down and the trunks are normally treated as waste.

Considering that millions of trees are felled every year, there are various efforts being made to find a way to use this material for industrial application (for example to produce plywood) as a substitute for wood. These efforts, as well as having an economic scope, are also being made because of strong ecological pressure

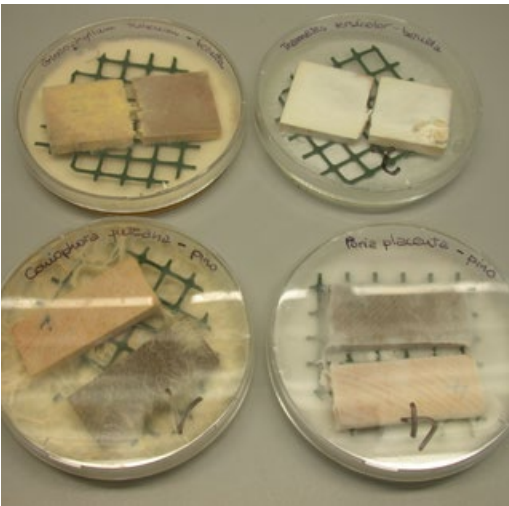
connected to these plantations which have a direct and indirect impact on the land. So, the work carried out by Catas is to be seen in this general context as a wish to find a way to begin understanding palm "timber" and compare it with better-known species of timber. We have to remember first of all that the material from the trunks of palm trees is not biologically classifiable as "timber" in that it comes from a herbaceous plant and not a tree. However, apart from the botanical classification, the wood material coming from palms has specific morphological and anatomical characteristics which give it properties quite different from real wood. We also need to consider that there are about 200 genera of palm we know about with about 2,500 species. So the characteristics of "palm wood" may be quite different depending on the species from which it comes.

TESTS CARRIED OUT

With the aim of classifying the Dum palm "wood", various technical properties of wood were examined and in particular those which distinguish the different species of timber. Hardness, dimensional stability and resistance to biological deterioration were examined in particular. The results of tests carried out on palm wood were then compared with the values of some timbers commonly used on the European market for floor production.

Hardness

Hardness is the term used for the resistance of a material to being penetrated by a rigid object. This is a very important characteristic to take into consideration for wood floors since by their very nature they are subject to possible deterioration provoked by the crushing of hard objects on the floor (for example rubble or pebbles) or by accidents such as heavy objects falling on the floor. There are also particularly potentially damaging objects such as



umbrella points or stiletto heels which can spoil a floor, especially if it is not made of hard timber. The hardness of palm wood was measured in accordance with European norm EN 1534 (Brinell hardness) which involves producing a permanent mark on the wood by using a steel ball applied with a predetermined force. The HB (Hardness Brinell) index is expressed as the relationship between the load applied and the surface of the mark left. The Brinell hardness value of palm wood was 50.1 N/mm² which is therefore about the same hardness value of the hardest types of timber in common use (see table below).

Dimensional stability

Wood is well known to be highly

susceptible to damp. It can absorb or release moisture depending on the environmental conditions. Absorption of moisture causes an increase in size while loss of it has the opposite effect of causing contraction (or shrinking). Wood floors are constantly exposed to this effect and in some cases it can lead to very negative consequences such as undesired deformation, swelling or detaching. It is equally important to remember that each species of timber has different changes to dimensions in reaction to variations in humidity. Lastly, let's remember that dimensional changes in wood are much greater in a tangential direction (about double) than in a radial one. The anatomical structure of "palm



wood” however is such that its changes in dimension resulting from moisture exchanges with the environment are more or less the same radially and tangentially. The dimensional stability test on palm wood was carried out according the EN 1910 European norm. This involves subjecting the samples first to “normal” environmental values and then later measuring the dimensional variations after their exposure to a “dry” climate and a “damp” climate. The conditions specified for the test are as follows:

- Four weeks at (20 + 2)°C and (65 + 5) % r.h.
- Four weeks at (23 + 2) °C and (85 + 5) % r.h.
- Four weeks at (23 + 2) °C and (30 + 5) % r.h.

The following table show the different dimensional volume changes of palm “wood” in comparison with some species of timber commonly used in Europe. The data obtained show that palm wood has a dimensional stability similar to that of the most stable timbers used to make floors.

Biological durability

This research also considered how sensitive the palm wood was to fungus decay. This is one of the most serious dangers affecting timbers because of its damaging effects and the rapidity with which it develops.

TAB.1 SPECIES OF TIMBER		
COMMERCIAL NAME	BOTANICAL NAME	BRINELL HARDNESS
American maple	Acer saccharum	****
Doussié	Azelia spp	****
Larch	Larix decidua	**
Durmast	Quercusrobur	****
Teak (Africa)	Tectonagrandis	***
Beech	Fagus Sylvatica	****
Iroko	Milicia excelsa	***
Merbau	Intsiabijuga	*****
Dum Palm	Hyphenae thebaica	*****

SYMBOL	NOTE	BRINELL HARDNESS
*	Scarce	HB < 10
**	Low	10<HB <
***	Medium	20< HB < 30
****	Medium/high	30< HB < 45
*****	High	HB > 45

TAB. 2 TIMBER SPECIES		
COMMERCIAL NAME	BOTANICAL NAME	DIMENSIONAL STABILITY
American maple	Acer saccharum	***
Doussié	Azelia spp	*****
Larch	Larix decidua	**
Durmast	Quercusrobur	****
Teak (Africa)	Tectonagrandis	****
Beech	Fagus sylvatica	**
Iroko	Milicia excelsa	*****
Merbau	Intsiabijuga	*****
Dum Palm	Hyphenae thebaica	*****

SYMBOL	NOTE	DIMENSIONAL STABILITY IN RELATION TO CUMULATIVE VOLUMETRIC VARIATION (PERCENTAGES)
*	Very low	> 2.5
**	Low	2.49 : 2.0
***	Medium	1.99 : 1.6
****	Medium/High	1.59 : 1.1
*****	High	< 1.1

CLASS OF DURABILITY OF TIMBER SPECIES	DESCRIPTION
1	Very durable species
2	Durable species
3	Moderately durable species
4	Not very durable species
5	Not durable



SPECIES	SCIENTIFIC NAME	NATURAL DURABILITY TO XYLOPHAGOUS FUNGI (EN 350-2)
White fir	Abies alba	4
Red fir	Picea abies	4
Larch	Larix decidua	3-4
Doussié	Atzella bipindensis	1
Durmast	Quercus robur	2
Pine	Pynus sylvestris	3-4
Dum Palm	Hyphenae thebaica	1

Natural durability of wood in the face of these xylophagous fungi is classified according to the European norm EN 350-2 which classifies timber species as illustrated in the table below. The result of the durability test carried out on palm wood according to the method described in document CEN/TS 15083-1 was compared to the classes of durability set out in EN 350-2 and shown in the table below. Some other timber species are also shown for comparison of durability to xylophagous fungi. Although it cannot be considered a real wood and therefore does not actually come under the norms applied, the woody material from the trunk of a palm reached the highest class of durability in this research (class 1)

CONCLUSIONS

From the results obtained from the tests carried out, it can be concluded that the palm “wood” examined has a high density associated with notable durability. The values of dimensional stability were also comparable to

those of species of timber considered “stable”. Finally, the biological durability also provided interesting data especially when compared with those species of timber considered to be the most durable. All of these properties, added to the characteristic, original aesthetic appearance mean that palm wood is a particularly interesting and innovative material for use for floors, both inside and outside. One aspect not covered by this research was the workability of palm wood both from a mechanical point of view and with reference to glueing and varnishing.

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CATAS THROUGH THE YEARS

The story of Catas begins in 1969 in the Friuli Venezia Giulia furniture district, world-wide known for its productions in this specific sector. The Chamber of Commerce of Udine was the founder of the Institute with the aim to help local companies to develop in foreign markets and, at the same time, to comply with the technical standards of this sector. Catas development was supported by the associations (industry and artisans) of the Friuli Venezia Giulia Region, by the local Technical School and later on also by the University of Udine. In the nineties, after two decades of growth and expansion in Italy and abroad, Catas became a limited liability company with the declared mission to encourage and support the technological development of the wood and furniture companies. In 1991 Catas was accredited by Sinal/ ACCREDIA (the Italian Body for the Accreditation of Laboratories). The expansion of Catas continued until arriving in Lombardy (Brianza) with the opening in 1994 of the Lissone branch. The 2000's started with an important acknowledgment: the authorization by the Italian Home Office to issue official test certificates in the field of fire reaction. The desire to grow leaded Catas to acquire in 2009 the chemical laboratory of the Chamber of Commerce of Udine, launching and offering new services to the market. The following year Catas was recognized by CARB (the California Air Resources Board) for the certification of formaldehyde emission from wood-based panels, while in 2014 Catas was also accredited by ACCREDIA for that certification scheme. Today more than 1,200 companies are CATAS Members, having a continuous collaboration with our institute.

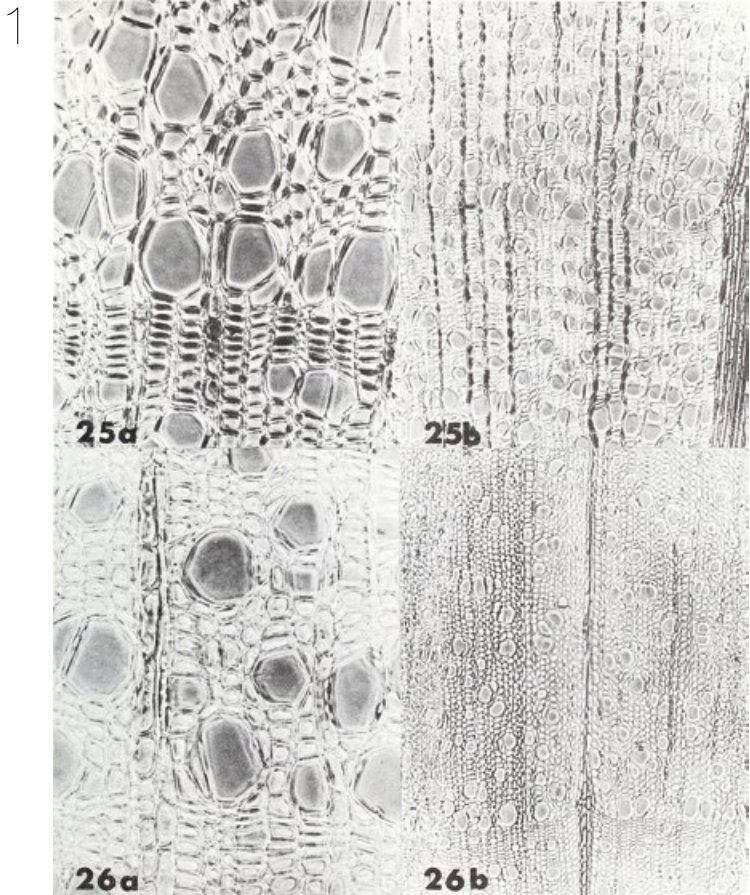


THE ANATOMY AND CHARACTERISTICS OF WOOD

Knowing the shape and placement of cells and the chemical composition of this precious raw material is important for understanding how it behaves

2

1 Comparative wood anatomy of some shrubs native to the Northern Rocky Mountains
2 Cross Section Butternut



All the main technical characteristics of wood have a close relationship to its anatomy (the shape and placement of its cells) and to its chemical constitution. These aspects differ among the different species of timber and can also vary a lot within a single species or a single trunk according to the environmental conditions where the tree grows. Aside from this variability, the trunk of a tree species is characterised by:

- bark, made up of dead, suberized cells;
- exchange, made up of a single layer of cells which, during the vegetative season produce wood towards the interior (with the function of mechanical support and conduction of raw sap) and phloem towards the exterior (which transports the sap);
- wood – mainly made up of dead cells, with only some particular areas where the cells are alive (sapwood parenchyma);
- medulla – made up of the primary

parenchyma (with the function of storing starch) situated corresponding to the long axis on which later the top vegetation of the trunk or branches will be found.

ANATOMICAL SECTIONS OF WOOD

If we examine a section of a recently cut trunk, as well as the bark and medulla, we can see:

- Growth rings which have been produced by the changing seasons which influence the production of new layers of wood. In temperate zones, after a resting period caused by the low winter temperatures, the tree begins to produce early (or spring) wood whose cells are characterised by large vessels and relatively thin walls (so that conduction is increased to the maximum). In summer, the plant starts, more or less gradually, to

produce a denser, harder and more compact wood in which the cells have thicker walls and narrower cellular vessels. This wood is called late (or summer) wood. To the naked eye spring wood is lighter in colour than late wood and these alternations are what produce the annual growth rings. In tropical zones, where there is no winter and changing seasons which have light or heavier rain, the rings are less visible and do not necessarily correspond to annual growth.

- Sapwood and heartwood in wood species which have a different colour in the two sections. The sapwood, which is nearer the outside (near the bark), if it is

different, has a lighter colour and has both support and physiological functions for the plant (it contains a lot of starch). The heartwood on the other hand, which is of darker colour if it is differentiated, is made up entirely of lignified cells in which, over time, particular substances (tannins, terpenes...) are deposited which give the wood greater resistance to pathogenic agents (durability). The heartwood has the sole mechanical function of supporting the plant.

- Parenchymatic rays (also called medullary rays) are made up of wing-shaped cells reaching from the medulla to the bark. They perform the function of storing nutritional substances. They are more or less visible to the naked eye depending on the type of timber.



All the cells of wood are surrounded by a wall which is similar to a composite material in that a matrix (lignin) keeps the cellulose microfibrils together. This is a structure which reminds us of reinforced concrete! The lignin is the mortar and the iron bars are the cellulose microfibrils. Their organisation in different dimensional levels produces a series of characteristics (tension distribution, resilience, capacity to resist the spreading of cracks) which, all together, are very difficult to reproduce in even an advanced artificial compound.

**UNDERSTANDING
HOW TIMBER BEHAVES**

Wood has three fundamental anatomical directions:

- Longitudinal or axial, coinciding with the axis on which the plant has grown in height;
- Radial, perpendicular to the longitudinal and intersecting the annual growth rings to make a right angle;
- Tangential, perpendicular to the longitudinal and at a tangent to the annual growth rings.

The properties of the timber all vary noticeably with the anatomical direction and its different behaviours must always be seen in this light. Other structural characteristics needed to define and understand the behaviour of the timber are:

- Fibres, also known as “thread”, “vein” or “skin” etc. which indicate the longitudinal direction (that is the direction corresponding to the trunk axis) in which the cells are placed.

Fibres can be straight or deviated (sloping, waving, interlaced) and have a significant effect on the behaviour of the timber because they have a negative influence on working with it when they are wavy or interlaced and on its mechanical characteristics when they are sloping. When they are not straight, they can also negatively affect the wood-water relationship mentioned later;

- Grain, which indicates the size of the cells. The grain can be fine, with small cells regularly distributed as in the case of maple, coarse with very large cells next to others of much reduced size, as in the case of durmast, or medium as in Afzelia. The texture is important for considering what work is possible and the quality of the surface which can be obtained. Its effects on the finished product also need to be considered when other substances like glues and varnishes are applied.

- Veining, corresponding to the appearance due to the contrasting colours of the annual rings. The longitudinal surfaces of timber, if cut in a tangential direction, are commonly called “flamed”, in contrast to those cut radially which are called “striped” just because of their appearance which originates from the growth rings. Veining is therefore only an aesthetic feature and, even though it is often confused with fibres, has no physical-mechanical effect on the timber behaviour.

*This text is taken from the
FederlegnoArredo Manual
“Parquet from planning to laying”.*



EPSILON

Waterborne single-component polyurethane wood floor finish

MAINTAINS THE NATURAL COLOUR OF THE WOOD

- Dedicated for residential wood floors
- Provides excellent abrasion, scuff and shock resistance
- For a better resistance it's possible to add the hardener IDRO2 to improve the performances
- Good resistance against chemicals for domestic use
- Easy to apply

PACK SIZES: 10L, 5L

WHEN PARQUET MEETS CONTRACT

Italian companies are able to customize products in order to obtain... a tailored dress for hotels, restaurants, office and retail



In photo a wooden floor by Itlas itlas.com



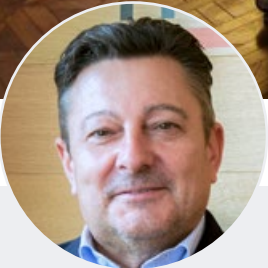
LISTONE GIORDANO

Listone Giordano is synonymous worldwide with excellence in premium hardwood flooring. This reputation has been built over many years and is strengthened daily by the dedication and enthusiasm of all the people who work to create this product. They are driven by a single goal: perfection. An incomparable product, made for those who love quality living and look for excellence in their own home. Listone Giordano is the keeper of antique methods and knowledge. But it is also driven by an indomitable spirit of innovation which has been evident ever since it first went on the market. The Natural Genius – design collection - has combined the innate talent of nature with the ingeniousness of man; it has clothed some of the most beautiful houses in the world with the distinctive look of wood, and at the same time it has played a lead role in ambitious projects springing from the minds of internationally famous designers and engineers. Listone Giordano creates products in which the elegance and value of wood go hand in hand with avant-garde techniques and the latest technologies. Projects which have established Listone Giordano as a leading brand in interior design – a brand with a contemporary style, thanks to the fusion of the company's wealth of technical knowledge with aesthetics that have won worldwide acclaim in the world of Italian design. Our creative collaborations feature today the well renowned international architects and designers of the like of Michele De Lucchi, Patricia Urquiola, Daniele Lago, Matteo Nunziati, Marc Sadler and Matteo Thun. The tradition that links Listone Giordano to the culture of wood is established in the forests of Burgundy, in France, where the best raw materials have been selected for many years. The forestry management in this area embraces an integrated cycle of more than 180 years: every tree is registered, numbered and

monitored in order to guarantee a gradual increase in the woodland heritage. Listone Giordano long ago began moving in the direction of the responsible use of natural resources, checking the origins of the raw materials and ensuring traceability throughout the entire production process. This approach continues today, with a renewed committee on an international level, applying these principles also to tropical woods in order to guarantee eco-sustainable products. It was 1984 when Prof. Guglielmo Giordano ingeniously conceived a hardwood flooring of groundbreaking characteristics that improved the limits of traditional hardwood flooring and inaugurated a new era. Stability, precision, reliability, beauty, long-life and respect for the environment are still the keywords to this huge success. The technological heart of Listone Giordano lies in the special multilayer birch support, which, together with the transversal incisions and micrometric joints make the hardwood floor stable over time and keep it from ever warping. A unique product characterized by values ranging from the selecting of the finest raw materials directly in the forest to the special sawing techniques, the marine adhesives, the ecological finish treatments, the precision machining, the sophisticated selection criteria, and the most advanced frontiers of the new shapes and surfaces of contemporary design.

www.listonegiordano.com

*In photo: Confidential Technology Client,
Headquarters Office in San Francisco.
Photocredit: Jason O'Rear
Project by Gensler
Product: Slide Natural Genius (design Daniele Lago)*



ELIA BOLZAN,
GENERAL MANAGER

FRIULPARCHET

Friulparchet is a big shared passion. It is the history of 4 family generations that continue tradition of a company that through its work has always given birth to authentic and essential products. Together with their skilled and professional collaborators have grown, sharing innovation and experience, both productive and creative. Friulparchet was born in 1927 when the forefather started to make some processes on wood for the branch of furniture production, then he turned it into wood floors production. In the middle of the '50s, Friulparchet became an industrial company, by evolving into one of the rare Italian industries for this kind of product. Friulparchet starts its work following the building sector and for first it is concentrated into development of solid wood floors, becoming a reference for the national market. About at the end of the 20th century, in line with new technologies in the parquet branch, Friulparchet starts production of the layered pre-finished wood floors. It also makes collaboration with designers and architects, much more strong in order to be much more known and power into foreign market; thanks to these figures, Friulparchet starts production of new lines of products that can be distinguished by their sizes and finishes applied. These creative-support, together with desire of company to test, offers a new interpretation of the concept of wood floor. Thanks to all this, today Friulparchet sells its products all over the world, in all continents. Every generation of our family has dedicated part of his life to the art of wood-working: we are distinguished because we work with emotion, passion but also concentration and continue research. We

always make strict and continue quality checks directly at the origin countries of our raw materials, following both the supply and all the production processes. A special attention is paid to be sure that raw materials come from eco-friendly forests, to safeguard consumer and nature. In a market where attention for health of humanity and nature are fundamental, to guarantee a comfort in living, we have as purpose, the one to preserve wood and its nature, to pay attention to each production process from choice of raw materials to the finishes applied. Every year Friulparchet invests part of the turnover in research and development to guarantee to the customers always up-to-date product, in line with fashion and design.

www.friulparchet.it

ALEXANDER

Alexander, noble and elegant wood floor by Friulparchet, it is produced using old recovered Asian teak coming from demolitions of ancient buildings in South-east of Asia. An eco-friendly product that, using an unused wood, without glues and by ancient cabinet-making techniques, gives birth to extraordinary solid patterns. Each one of these, maintains features and aspect of an old wood and also beauty and majesty of Teak that, combined with natural and hand-made finishes applied, creates an amazing and timeless wood floor.



BENEDETTA MARTINI,
EXPORT MANAGER

PARCHETTIFICIO GARBELOTTO

Since 1950 Garbelotto Industries have produced wooden floors of great beauty and of the highest quality with select wood from all over the world. The love for wood linked to the enormous experience of the Garbelotto family and their continuous technological research have enabled the company to reach excellence in the production of a vast range of wooden floors in different sizes and finishes, as well as a wide range of customized options, which keep the beauty and warmth of handcrafted wooden floors. Parchettificio Garbelotto is a proud ambassador of Made In Italy: every single square meter of wooden floor is designed and manufactured in its factories, in the province of Treviso, and exported all over the world.

There is always a special attention to the environment: all the products are CE-certified, E1 class for the emission of formaldehyde and, on demand, customers may have them FSC-certified. Continuous technological research characterizes our philosophy, which has created products that have been recognized internationally, as true diamond tips of our production. For instance The insertion, in Garbelotto parquet, of other noble and valuable materials, such as the Murrine, has produced excellent products recognized on the international market, as the latest great innovation, the Clip Up System®, the revolutionary installing system. The innovative trend has also been recognized by the organizers of the Domotex Hannover, one of the most important international trade fairs, which for three consecutive years has selected our products, recognizing them as the most innovative at the event. Hi-Tech PVC Joint in 2015, Modular Herringbone in 2016 and Clip Up System in 2017 have been awarded recognition in the Innovations@Domotex section. For years, Garbelotto has focused on certified quality to guarantee an excellent product. In this way, the company can combine the beauty and elegance of our products with the technical and productive

features acknowledged by the certification authorities, respecting EU regulations, environment and Made in Italy concept. The Company has also worked on the futuristic headquarters of the Group which house offices and the new innovative showroom where you could see all Garbelotto products, with a new look that combines art, fashion and technology.

www.clipup.it

CLIP UP SYSTEM®

Clip Up System® is the innovative patented innovative floating laying system, inspectionable, for prefinished wooden floors system. The installation is made with clips laying on the subfloor. With a little pressure planks are fit together and with the same easiness they may be removed, allowing the reuse of both boards and clips, with also the great advantage to have the possibility to replace one or more tables in any time. Clip Up System is available in two different format e material: with steel clips and 16mm thickness wooden floor or with polymer clips and 13mm thickness wooden floor. Clip Up System® laying is recommended also for the floors that have to be easily inspected. If you need to work under the parquet, the operation will be easy: just remove the boards, fix the problem and reposition them. Clip Up System® will ensure a fast laying and the floor will be immediately walkable. And the rooms will be furnished at once! This revolutionary system is ideal for raised floors also for all private and public spaces, such as hotels, restaurants, airports, museums and so on.



FIEMME 3000

LUCA DE MARCO,
EXPORT MANAGER

HOTEL INDIGO LONDON OPTS
FOR FIEMME 3000 BIOCOMPATIBILITY

Fiemme 3000, the biocompatible material leading company in Italy, lands in London as partner of the new Hotel Indigo at 1 Leicester Square, a project carried out by Michaelis Boyd, an award-winning architecture and interior design studio. In the very heart of London, Hotel Indigo is an art deco temple of glass, marble and wood. Fiemme 3000 biocompatible wood was specified by architecture and interior design firm, Michaelis Boyd throughout the nine floors of the hotel. From the 95 bedrooms - where they applied half-height wall panelling - to the common spaces and the magnificent panoramic restaurant, approximately 3,000 square metres of customized knot-free oak from the Fuoriserie collection made by the company established in Trentino was used in the hotel. The wood specified has a perfectly smooth and flawless surface.

Fiemme 3000, an Italian biocompatible wood flooring, covering and furniture company, was established in 1993 in the heart of the Dolomites - a Unesco World Heritage Site, whose mission is to build and to design with particular care to wellness, the healthiness of building materials and the indoors. In 2017 the CNR - Ivrea, the greatest Italian centre of research for trees and timber, shows how Fiemme 3000 products do not contain any kind of harmful substances. Not only. The "Alpha-Pinene" research certifies the emission of healthy substances. Distributed in Italy and abroad, from China to New York, during 2018 Milano Design Week, in the capital of design Fiemme 3000 inaugurated their first flagship store in Brera Design District (via Lanza, 4).

www.fiemme3000.it



ALMA BY GIORIO

DAVIDE VIGO,
EXPORT MANAGER

DESIGN COLLECTION

Alma is one of the most renowned brands of wooden flooring and is well established in both the Italian that international markets thanks to the wide range of solutions offered. Alma combines the warmth and naturalness of wood with exclusive finishes and will enhance any space. A combination of the best raw materials and the latest trends in the world of parquet have created a series of collections with a unique style thanks to their appearance, the way they feel to the touch or the look they create. Vintage, classic, elegant or even modern, Alma flooring offers a captivating new look. Alma provides the most practical solutions taking into account the style preferred by its customers, guaranteeing professionalism, expertise and an unrivalled level of care. Those who choose Alma, choose style and beauty without compromising on quality, the trademark of the Giorio brand.

www.almafloor.it

The Arsenale model from the Design Collection has found an exceptional home: an important Hotel in Wien, where history, modernity, tradition and innovation come together to create a fashion without time. Our unique pieces, hand-crafted by our artisans, have been perfectly integrated into the bohemian atmosphere of the refined suites. Becoming the protagonists of one of the most significant places in this city is certainly a source of great pride for us. The Design Collection is the highest expression of traditional artisan craftsmanship: precise geometries, artistic tiles, perfect joints. Each piece is shaped by hand with skill and care like a precious work of art. A unique and inimitable parquet for environments of timeless charm.



ENRICO OLIVERI,
EXPORT MANAGER

CORÀ PARQUET

Corà means culture and passion for wood! With 100 years of precious presence in the market and four generations that harmoniously followed one another since 1919, it is the biggest timber trade and manufacturing company in Italy, supplying 6000 clients. Thanks to the long-lasting activity in supply markets worldwide (partner in Gabon, forest concessions in Africa) Corà has a total control of the production chain. The Parquet Division, founded in 1993, features the same values of the Company, especially the green attitude. With a continuous increase of the offer, that counts now on 150 products, Corà Parquet satisfies all the requests for retail and contract, both indoor and outdoor.

www.coraparquet.it

WAVE, SEA-GREEN WOOD FLOORING

A sequence of wavy shape strips whose colors tone from green to sea-green and grey, a wood flooring with delicate design and original shades enhanced by the exceptional and poetic potential of wood. Among project and design, the new colors of Wave allow a new way to enjoy the modern, unconventional living, creating textures of sophisticated material and colors. The wavy look of the strips in pre-finished European Oak takes inspiration from the unrectified planks typical of Northern European Countries, that used to be laid in the past respecting the natural irregular shape of logs. It is the combination of color/finishing that highlights the wavy shape of the flooring. The green nuances increase the offer made up of three more stylish colors (light blue, must, black, grey, white) combining the pure look of the matt finish with the elegance of the glossy one. In photo: Ring of Kerry Golf Club, Ireland, project by Vinny Smith (www.northernbackdrop.co.uk), photography by Derek Hillier, Flooring: Collezione Design - WAVE Glossy Grey.



GIAN LUCA VIALARDI,
GENERAL MANAGER

WOODCO

Since 1983, Woodco like to think that there is the right parquet floor for every design project and for every person. That is why the company place its knowledge and craftsmanship at the service of its customers, to create wooden floors of superb quality that are affordable and never the same. The extensive understanding of wood, workmanship and suppliers allow Woodco to add value throughout the whole production chain, offering first-class quality to its customers so that everyone can enjoy living in the warm and pleasant surroundings that wood is able to create.

www.woodco.it

DREAM

Every furnishing project needs the right parquet: Woodco Dream collection offers the highest customization possibilities thanks to five different species (oak, walnut, iroko, teak and doussié), 35 current colours, a rich selection of formats and designs and the possibility of choosing between four different wood selections (from the most uniform to the most irregular). All the floors of the Dream collection are also completely non-toxic and safe, thanks to solvent-free lacquer and oil-wax finishes. The healthiness of the products is certified by accredited Italian laboratories, in order to offer floors that are truly in harmony with nature and able to guarantee the highest standards of well-being in the home.

1 |



1 | Celaschi tm profiling machines

SCM range of celaschi tm profiling machines offers several solutions to suit all needs in flooring market. Extremely versatile, all models can be configured according to the type of material and the profile to be executed and differ in the maximum speed of the workpieces feeding system (from 40 to over 250 m/min). It is also possible to add specific devices such as painting units, edge impregnation units, imperfections detection systems and devices for Click tabs insertion. The special hopper devices, also suitable for the most delicate surfaces, allow a rapid size changeover ensuring unparalleled flexibility. Both for small productions and for production realities dealing with large volumes, SCM is the right supplier for complete solutions from sizing and pressing, to profiling and lacquering, and lastly packaging lines.

www.scmgroup.com

2 | Adjustable paving support systems

The adjustable paving supports "Special" are used as self-levelling supports for raised floors to turn non-practicable area into practicable ones, whether they are waterproofed or not, allowing the passage of cables and pipes. For this reason, raised floors are appreciated especially in new buildings or in renovation where maximum design and flexibility is required or simply to ease the inspection of the waterproofing layers. The adjustable paving support Special is produced using only the finest top grade polypropylene and additives; these top quality raw materials ensure its long durability and also increase the load capacity.

www.italprofili.com

3 | Mapei for maintenance and cleaning

Mapei has a wide range of products available to help maintain the beauty of wood flooring, as well as an innovative lightweight tool. Ultracoat

Cleaner, a gentle, hygienising cleaning product used neat for deep-down cleaning of wood, or diluted with water for routine cleaning operations, Ultracoat Remover Plus detergent to remove old floor wax and stubborn dirt and stains, Ultracoat Polish Anti Slip to provide a protective, non-slip finish and Ultracoat Polish Matt, which forms a protective, anti-wear and stain-proof finish. The new, innovative tool Mapei Spray Mop has been developed to help clean domestic environments quickly and efficiently and may also be used to carry out periodic maintenance on wooden floors to remove old wax and apply new wax.

www.mapei.com

4 | Kiehl eco Refresher

Kiehl eco Refresher Ecolabel Certificate represents the correct expression of Sustainable product for sustainable flooring. Kiehl eco Refresher New unique universal product, patent pending.

4 |



Accentuates the wood tone. Opaque, odorless, free of pigments, hardens on contact with oxygen, allows perspiration, can be polished. Easy to use, forms a protective film, penetrates the surface, can be walked on already after approx. 2 hours and washed after approx. 2 days. It complies with the chemical standard of DIN EN 71-3 (free of heavy metals). Solvent-free.

www.kiehl-group.com

5 | LIOS Sundeck Wood Oil and LIOS Sundeck W Oil

LIOS Sundeck Wood Oil is an outdoor wood impregnator particularly recommended for the treatment of outdoor



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wooden floors (swimming pool edges, verandas, walkways), window and door frames, fences and canopies made of wood. It contains natural and synthetic oils, with the addition of UV ray absorbers and special anti-ageing ingredients against the wood decay. It doesn't crack. Also available in LIGHT version, which doesn't alter the natural colour of wood, particularly indicated for the treatment of south-american species (i.e. IPÉ Lapacho, Tobaccoetc.) and other similar types of outdoor woods painted in autoclave (usually green colour). Doesn't degrade rubbers and expansion joints. LIOS Sundeck W Oil is a water-based impregnating oil for wood. It's particularly suitable for the treatment of wooden floors located outside as swimming

pool edges, verandas, walkways, window and door frames, fences and canopies made of wood. LIOS Sundeck W Oil is composed of emulsified oils and water-based resins, reactive elements that bind to the wood lignin, strengthening it and delaying the wood decay (graying) significantly. The light mordant, in addition to be an excellent solar filter, gives to the wood a pleasant warm colour. On rubber and expansion joints the drying time could be longer.

www.chimiver.com

6 | Vermeister ONE

ONE is the latest generation of single component sandable water-based sealer. Featuring a sophisticated internal self cross-linking system (S-XL), thanks to its particular threedimensional structure and the exceptional

high build, ONE guarantees appreciable high build power on any type of wood comparable with that of a two-component sealer. The high "open time" and the fast hardening time mean that, whatever the environmental conditions, ONE has a minimum tendency to leave lap marks and/or roller marks. The considerable penetration in the pores of the wood, the good tone and perfect sandability in less than an hour after application, make ONE the best ally for the modern wood floor installer. In line with the quality standards that have always characterized Vermeister, for ONE the R&D laboratory has carefully selected raw materials with very low emission levels and with low olfactory impact making it practically odour-free.

www.vermeister.com

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7 | Innovative and sustainable: the Pedross direct digital print

With the direct digital print on skirting boards and profiles, PEDROSS expands its portfolio and offers a modern, "green" product. Through the usage of haptic ink, it is now possible to create a limitless range of designs and styles that incorporate a real and tangible tactile feel. Extraordinary motifs and countless other individual ideas can be realised directly on various base materials - completely without the digital printed foil. True to the motto "Saving the forest with every print!", exclusive and protected woods can be reproduced directly on base materials such as spruce, MDF or PVC.

www.pedross.com

8 | Promultifix

Promultifix is the latest special TOP with adhesive in anodized aluminum or covered with wood-effect film, patented by Progress Profiles. It has a visible surface of 44.7 mm and height of 4.3 mm and can be used to connect floors to different levels, to cover joints, to join floors at the same level or to finish the flooring along the perimeters. Promultifix TOP can be fixed to the floor in different ways: with the hotmelt self-adhesive peel & stick to guarantee a strong adhesion; with nylon anchors inserted into the TOP; with a support provided with removable spacers in the desired height; inserting a "flatten down base" into the TOP.

www.progressprofiles.com

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9 | Great news for mini heights: supports for raised floorings from 10 to 50 mm

The creation of outdoor raised floorings is a sector in constant evolution: new formats, irregular heights and construction sites with installations more and more complex. Impertek has always been attentive to the needs of the installer and continues the evolution of its products, to speed up the installation and optimize the work in site. In recent years has created two of the most appreciated products and now has improved them further. The smaller supports of Pedestal Line, the adjustable PrimeUp (h 10 - 25 mm) and the adjustable self-levelling MiniBalance (h 25 - 50 mm), use PB-05, 5 mm high and stackable extensions at the base. Thanks to the new coupling system, extensions and support become a unique body, increasing stability installation and with even shorter installation times.

www.impertek.com



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