

STILE

SOCIETA' COOPERATIVA



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LEED® COMPLIANCE DOCUMENT
Review 01

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STILE

ENVIRONMENT AND SUSTAINABILITY BY STYLE

"IT IS NOT THE CRITIC WHO COUNTS... THE CREDIT BELONGS TO THE MAN WHO IS ACTUALLY IN THE ARENA WHOSE FACE IS MARRED BY DUST AND SWEAT AND BLOOD, WHO KNOWS THE GREAT ENTHUSIASMS, THE GREAT DEVOTIONS, WHO SPENDS HIMSELF FOR A WORTHY CAUSE.

WHO, AT THE BEST, KNOWS, IN THE END, THE TRIUMPH OF HIGH ACHIEVEMENT, AND WHO, AT THE WORST, IF HE FAILS, AT LEAST HE FAILS WHILE DARING GREATLY, SO THAT HIS PLACE SHALL NEVER BE WITH THOSE COLD AND TIMID SOULS WHO KNEW NEITHER VICTORY NOR DEFEAT."

T. ROOSEVELT

1. STILE WOOD FLOORING SYSTEM

1.1 Our Company

Stile was born in 1965 out of a passion and devotion to lumber.

In fact the Onofri and Colcelli family have been working for years in the green hills of the Umbrian Tuscan mountains. These two families, the founders of Stile, have been working in the field of lumber.

They started out by supplying firewood in the late 19th century and then became manufacturers of rail road sleepers until the mid 20th century. In the mid-sixties, they came to a turning point: this was the beginning of a company which manufactures mosaic wood floors: the S.Ti.Le Società Tiberina Legnami, now Stile Pavimenti Legno Spa.

Today Stile is a well-known brand in Italy and all around the world Stile is synonymous with quality and elegance.

The continued use of more and more advanced and newer technology, together with their care and experience in selecting the most valuable wood species from all over the world, allow them to be a leading brand name in the wood flooring market.

Starting from 2010, the technical partnership with BONA, a Swedish company leader in woodfloors finishes for over 10 years, has projected Stile into an international dimension, making it, in the world of parquet, the most authoritative ambassador of Made in Italy in the world .

Quality is not only a word but it is something of extremely concrete and verifiable.

Stile has always achieved it thanks to the experience of generations that have been working in the wood field for years. This experience, together with the innovative evolution of the modern technology render our products absolutely in the forefront.

The way to the quality is long and rich in experience and in tests that sometimes seem insuperable. The persistence we show in searching it gave us in the end the great satisfaction that we want to share with our partners.

1.2 Certificates

Stile is transparent

Stile is a transparent company that has obtained all the necessary, certified guarantees for quality and compliance with all legal considerations and in particular consumer protection.



Il marchio della gestione forestale responsabile



For more information, see the following link:

<http://www.stile.com/en/certificates/>

1.3 STILE Wood Flooring

A greater part of our life takes place on a floor...

...whether on ceramic or terracotta tiles, stone or wood. Wood, in particular, represents a discreet, background presence in our existence. Warming, embellishing and painting it with the colours of nature. In most cases it will survive to us.

This is the reason why, the quality and the unique design of the Italian products are always synonymous with elegance and durability, as well as, and even more so than a dress or a piece of furniture. Stile, thanks to its experience and the technology used, is without doubt the most reliable interpreter of this uniqueness..

A multi-layer wooden floor is composed of many components, which must work together in harmony. Stile has selected only the best types of wood, the best multi-layers. Glues and varnishes are used to guarantee the maximum stability and durability over time.

Thanks to Stile's partnership with Bona, a world leader in wooden floor finishes, Stile has unique finishes available such as Natural UV and Traffic UV. Its unique performance and advantages in terms of care and maintenance are unrivalled in the market.

We are producers of two-layer wood floors, consisting of a slat of noble wood and a support in phenolic birch plywood, with a protective surface finish.

We have different wood species, in different sizes (both in thickness and width of the planks) and finishes.

2. FLOORING IMPORTANCE IN THE BUILDING SUSTAINABILITY

2.1 Material Sustainability

FSC certification, modern production plants and reduction of environmental impact, compliance with all the regulations on labor protection allow us to define the Style product as "environmentally friendly".

Low emissive materials, as shown by the tests and certifications carried out.

PRODUCED IN ITALY SINCE 1965

This is not something that should scare customers, who will probably think that a 100% made in Italy product is also very expensive. The added value of "Made in Italy" is a product made by qualified and highly experienced personnel, able to transform quality and passion into something unique, completing everything with the famous Italian style.



3. LEED® RATING SYSTEM

Sources: USGBC, GBC ITALIA

LEED® - Leadership in Energy and Environmental Design - is a voluntary building certification system that is applied in over 140 countries worldwide. The LEED standard is born in America by U.S. Green Building Council (USGBC), a non-profit association founded in 1993, which today has more than 20,000 members and whose aim is the promotion and development of a global approach to sustainability, giving recognition to virtuous performances in key areas of health human and environmental. The LEED® standards, developed by USGBC indicate the requirements to build environmentally sustainable buildings, both from an energy point of view and from the point of view of the consumption of all the environmental resources involved in the construction process.

LEED® is a voluntary and consensus-based system for the design, construction and management of sustainable buildings and high-performance areas and which is increasingly developing internationally; it can be used on any type of building and promotes an integrated design system that covers the entire building.

The certification constitutes an independent third party verification of the performance of an entire building (or part of it) and / or urban areas. The internationally recognized LEED® certification states that a building is environmentally friendly and a healthy place to live and work.

By working on the whole process, from design to actual construction, LEED® requires a holistic approach, otherwise the goals will not be achieved. Only with a large effort of integrated planning and coordination is it possible to create a harmonious building in all the areas mentioned above.

The competitive advantages for those who adopt the LEED® standards, whether they are professionals or companies, are identifiable above all in the final quality of the building (building), in the considerable saving of management costs that these buildings can obtain compared to traditional buildings and in the certification by a third party.

The LEED® certification, in fact, provides the market with a shared approach, on which to base the choices and a measurable standard for each aspect treated.

The LEED® rating system is structured in a set of (manual) protocols depending on the type of building to be certified. We will therefore have a protocol that certifies new buildings and major renovations (LEED New Construction, LEED NC, LEED BUILDING DESIGN AND COSTRUCTION LEED BD + C), a protocol for school buildings (LEED FOR SCHOOLS), a protocol that certifies retail and the interior of a building (LEED COMMERCIAL INTERIOR and LEED RETAIL), a protocol that certifies existing buildings (LEED EXISTING BUILDING OPERATION AND MAINTENANCE, LEED EBOM), a protocol that certifies sets of buildings, eg. neighborhoods (LEED FOR NEIGHBORHOOD), and so on.

The setting of all these protocols is the same, in the sense that they are all organized in the same areas or chapters, which they are:

- Sustainable Sites (SS) and Location & Transportation (LT)
- Water Efficiency (WE)
- Energy and Atmosphere (EA)
- Material and Resources (MR)
- Indoor Environmental Quality (IEQ))

There are also two other areas / chapters, which concern aspects that are more related to the certification process:

- **Regionality:** more credits are taken (points) to credits in certain geographical areas due to the strong relationship between the territorial context and the credit requirements;
- **Innovation in the design:** we evaluate aspects that are not considered in the specific protocol but are present in the other protocols, or give more score for exemplary performances in some protocol credits. Everything is regulated precisely by the text of the manuals.

All these areas contain prerequisites and credits. Prerequisites are mandatory and do not give a score, while Credits can be chosen or not by the design team but are those that give the score, which must be achieved to obtain certification level defined as objective by the certification.

Prerequisites and credits cover all aspects of a building, from the plants, to the details of the design, to the permeability of the land, to the consumption of drinking water, to the relationship of the site with the servants near the building or the availability of public transport. Some of these also concern materials, in the sense that materials have characteristics that help the building to meet certain requirements defined in prerequisites and protocols. In this document, was the first to identify the possible credits that could affect the STILE panels, the other to verify characteristics and documentation in line with what is required in the requirements. The credits to which the products can contribute are explained in the following paragraphs. It is reiterated that:

**LEED® rating system certifies the building,
does not certify the individual products or components of the building,
but the latter can help meet the requirements of the protocol and consequently
get the relevant scores to the building.**

This also implies that the product can NOT have a score, the score is always and only of the building, but it can help the building to get the score.

As already mentioned, the following paragraphs will illustrate the excellence of STILE in relation to LEED® credits and then describe how STILE can offer wood flooring that already complies with specific LEED® requirements.

As described before in the text, all the protocols are structured in the same areas, and for the most part the credits are the same or similar. In the present work, for clarity of exposition and avoiding unnecessary repetitions (and that could create confusion) the LEED NC NEW CONSTRUCTION protocol was taken as reference, inserting all the credits of this protocol that could concern STILE wood flooring taken into consideration by this document.

At the end of the document, a summary table will represent the credit contributions.

LEED for New Construction and Major Renovations (v4)

	POSSIBLE: 1				
Credit	Integrative process	1			
LOCATION & TRANSPORTATION		POSSIBLE: 16			
Credit	LEED for Neighborhood Development location	16			
Credit	Sensitive land protection	1			
Credit	High priority site	2			
Credit	Surrounding density and diverse uses	5			
Credit	Access to quality transit	5			
Credit	Bicycle facilities	1			
Credit	Reduced parking footprint	1			
Credit	Green vehicles	1			
SUSTAINABLE SITES		POSSIBLE: 10			
Prereq	Construction activity pollution prevention	REQUIRED			
Credit	Site assessment	1			
Credit	Site development - protect or restore habitat	2			
Credit	Open space	1			
Credit	Rainwater management	3			
Credit	Heat island reduction	2			
Credit	Light pollution reduction	1			
WATER EFFICIENCY		POSSIBLE: 11			
Prereq	Outdoor water use reduction	REQUIRED			
Prereq	Indoor water use reduction	REQUIRED			
Prereq	Building-level water metering	REQUIRED			
Credit	Outdoor water use reduction	2			
Credit	Indoor water use reduction	6			
Credit	Cooling tower water use	2			
Credit	Water metering	1			
ENERGY & ATMOSPHERE		POSSIBLE: 33			
Prereq	Fundamental commissioning and verification	REQUIRED			
Prereq	Minimum energy performance	REQUIRED			
Prereq	Building-level energy metering	REQUIRED			
Prereq	Fundamental refrigerant management	REQUIRED			
Credit	Enhanced commissioning	6			
Credit	Optimize energy performance	18			
Credit	Advanced energy metering	1			
Credit	Demand response	2			
Credit	Renewable energy production	3			
Credit	Enhanced refrigerant management	1			
Credit	Green power and carbon offsets	2			
MATERIAL & RESOURCES		POSSIBLE: 13			
Prereq	Storage and collection of recyclables	REQUIRED			
Prereq	Construction and demolition waste management planning	REQUIRED			
Credit	Building life-cycle impact reduction	5			
Credit	Building product disclosure and optimization - environmental product declarations	2			
Credit	Building product disclosure and optimization - sourcing of raw materials	2			
Credit	Building product disclosure and optimization - material ingredients	2			
Credit	Construction and demolition waste management	2			
INDOOR ENVIRONMENTAL QUALITY		POSSIBLE: 16			
Prereq	Minimum IAQ performance	REQUIRED			
Prereq	Environmental tobacco smoke control	REQUIRED			
Credit	Enhanced IAQ strategies	2			
Credit	Low-emitting materials	3			
Credit	Construction IAQ management plan	1			
Credit	IAQ assessment	2			
Credit	Thermal comfort	1			
Credit	Interior lighting	2			
Credit	Daylight	3			
Credit	Quality views	1			
Credit	Acoustic performance	1			
INNOVATION		POSSIBLE: 6			
Credit	Innovation	5			
Credit	LEED Accredited Professional	1			
REGIONAL PRIORITY		POSSIBLE: 4			
Credit	Regional priority	4			
TOTAL		110			
40-49 Points	50-59 Points	60-79 Points	80+ Points		
CERTIFIED	SILVER	GOLD	PLATINUM		

4. STILE AND LEED® CREDITS

4.1 Material and Resources Area

The Materials and Resources area is an area that considers the sustainability of the building on the basis of the materials that were used to build it. Pursuing LEED® credits in Materials and Resources (MR) can reduce the amount of waste and improve the building environment through responsible waste management and material selection.

The credits in this section focus on two important issues: the environmental impact of materials entering the building project and the minimization of disposal. With respect to the first area, STILE has chosen to use wood that comes from a sustainable supply chain by certifying FSC. Compared to the second area, STILE can support companies in the management of their own waste (recyclable packaging).

In version 4 of the rating system, the Materials and Resources area is the area undergoing major changes, enhancing good business practices and their environmental and social responsibility.

LEED V 4.1 - MR c 2 Building product disclosure and optimization – Environmental Product Declaration

Intent: To encourage the use of products and materials for which life-cycle information is available and that have environmentally, economically, and socially preferable life-cycle impacts. To reward project teams for selecting products from manufacturers who have verified improved environmental life-cycle impacts

STILE uses glues for installation with EPD certification in the sector, in particular:

- ULTRABOND ECO P909 2K
- ULTRABOND ECO S955 1K

LEED V 4.1 - MR c 3 Building product disclosure and optimization - sourcing of raw materials

Intent: To encourage the use of products and materials for which life cycle information is available and that have environmentally, economically, and socially preferable life cycle impacts. To reward project teams for selecting products verified to have been extracted or sourced in a responsible manner.

STILE has adopted management models of transparency and sustainability policies, which have led to the implementation of choices on materials, supplies and processes. At the following link you can consult the document that explains the "Policy of Stile Società Cooperativa":

<http://www.stile.com/chi-siamo/>

The following characteristics contribute to satisfying the requirement of option 2 of this credit through the following characteristic:

- a. FSC® certified wood;

STILE has obtained FSC certification for its products, as can be seen by consulting the FSC® Database at the following link:

<https://connect.fsc.org/fsc-public-certificate-search>

Certification information:

- Certification code ICILA-COC-003003
- License code FSC-C133000
- Expiration date 2026-11-17

LEED V 4.1 - MR c 4 Building product disclosure and optimization – Material Ingredient

Intent: To encourage the use of products and materials for which life-cycle information is available and that have environmentally, economically, and socially preferable life-cycle impacts. To reward project teams for selecting products for which the chemical ingredients in the product are inventoried using an accepted methodology and for selecting products verified to minimize the use and generation of harmful substances. To reward raw material manufacturers who produce products verified to have improved life-cycle impacts

Option 1. Material Ingredient Reporting

In addition to the wood panels described in the product data sheets, the parquet produced by Stile uses a 100% radiant polymerisation coating system which, after complete polymerization in the production plants, does not have classified residual ingredients. In any case, the total amount of coating on the complete board is less than 0.1% (1000 ppm).

LEED V 4.1 - MR c 5 Construction and demolition waste management

Intent: To reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing, and recycling materials.

With regard to the product in question, this credit evaluates the waste material and the packaging on site during the laying and installation phases, to the extent that these are "diverted" from the landfill and reintroduced into a production cycle.

The information for checking the actual recycling will be:

- Description of the material diverted from the landfill
- Place of recycling
- Quantity of recycled or diverted material
- Sum of the total waste generated
- Total amount of waste diverted
- Percentage of waste diverted

Given that this information must be collected and calculated by the construction company, it is important the role played "upstream" by STILE that uses a recyclable packaging. In particular, STILE may provide the client with the following information, a necessary condition for obtaining the MR C2 credit:

- In Bill and in Bubble the net and gross weight of the material transported (the weight of the packaging is calculated by difference);

- Type of material for packaging.

STILE uses as packaging:

- wooden pallets with cardboard protections.
- cardboard and shrink film
- shrink film and cardboard corners

4.2 INDOOR AIR QUALITY AREA

To ensure the quality of the indoor environment a common effort is required from the client, the design team, contractors, subcontractors and suppliers. To provide an optimal indoor environment quality, automatic sensors and individual controls can be integrated into the building system to regulate temperature, humidity and ventilation. Other indoor air quality issues addressed by the LEED® system include the verification of thermal comfort, availability and quality of natural light with access to exterior views. All these issues can enhance the quality of the internal environment and optimize the confined spaces for the building's occupants.

LEED V 4.1 – EQ c 2 Low-emitting materials

Intent: To reduce concentrations of chemical contaminants that can damage air quality, human health, productivity, and the environment.

STILE flooring and the adhesives used for installation are low-emission materials, as can be demonstrated by the tests and related certifications, in particular:

- GEV EMICODE EC1PLUS certification for the adhesives used in installation;
- A+ classification according to French Decree n°2011-321 for low VOC emissions;
- compliance with the emission requirements requested by California Specification 01350
- Indoor Air Comfort GOLD certification and attestations of compliance with the LEED protocols reported below



4.3 Product Badge

The following logo, called Product Badge, graphically represents a summary of the credits to which STILE products can contribute, consistently with what is described in the text of this document.



It should be noted that one of the main sites (<https://leeduser.buildinggreen.com/>) for an in-depth analysis of the LEED® System on the identification of the credit codes cites the reference protocol and the progressive number of the prerequisite / credit, unlike what is reported in the tables of V4 of paragraph 3.2.

The credits themselves are in fact highlighted to promptly identify compliance and are functional to a synthesis, which the Product Badge wants to be. It is emphasized that the Product Badge itself reports the same identification code as this document ("IT08-24082701") in order to create a unique identification. Finally, we highlight the fact that the Product Badge is reported only for the LEED® System, as it is designed and created to be in line with the references, policies and rules of the said System.

5. SUMMARY

QualityNet believes that STILE products can contribute to the achievement of the LEED certification score in the credits indicated in the following table:

CREDITO LEED NC V 4	Points	Title	Features	STILE WOOD FLOORING
MR c 2	1 - 2	Building product disclosure and optimization – Environmental Product Declaration	The glues used for the installation have the sector EPD	✓
MR c 3	1 - 2	Building product disclosure and optimization - sourcing of raw materials	The products are FSC certified with chain of custody	✓
MR c 4	1 - 2	Building product disclosure and optimization – material ingredient	Option 1. Splicate chemicals up to 1000 ppm of the finished product	✓
MR c 5	1 - 2	Construction and demolition waste management	Recyclable packaging	✓
IEQ c2	1 - 3	Low emitting Materials	Low VOC Flooring Adhesives GEV Emicode EC1 plus certified Low VOC Flooring as per Declaration of Conformity and INDOOR AI COMFORT GOLD Certification Compliance with California Specification 01350 emission requirements	✓

For more detailed information, contact the technical offices.

Although Qualitynet believes that the examined product can contribute to a LEED certification, it is recalled that, globally, only GBCI (Green Business Certification Inc) can attribute the scores and issue a LEED certificate. Recalling that LEED certifies the building and not the materials, Qualitynet makes no guarantees about the achievement of the score

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