

# LINVISIBLE®

**DOORS TOTALLY FLUSH WITH  
THE WALL**

**STANDARD SUPPLIES**

27/09/2017  
ID IT05-  
17070201

Value of Sustainability

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# LINVISIBILE®

## ENVIRONMENT AND SUSTAINABILITY

## 1. COMPANY

### 1.1 LINVISIBILE

Linvisibile was created in 1994 out of the experience of Portarredo Srl, an Italian company founded in the early 80's that specialises in manufacturing doors and technical closures featuring exclusive designs and materials.

Portarredo distinguished itself from the very beginning thanks to the fully developed technological value of its products, and succeeded in earning a name with its brand at the top of the market of windows and doors. Through close collaboration with architects and engineers, Portarredo has developed products that look into the future of home living, anticipating market trends and needs.

In the initial project, studies and researches were merged in order to propose personalised design configurations for architecture solutions aiming to satisfy demanding expectations, different tastes and a variety of lifestyles.

Linvisibile was born from this project, arising as the first-ever trademark in Italy to manufacture doors and technical closures totally flush to the wall. This exclusive and patented "invisible system" eliminates the need for doorposts, frames or exposed hinges, providing our doors with perfect smooth opening and motion.

Production consists of following handling systems:

- Hinged system (product family ALBA of swing doors in Filo 10 hinged door, Infinito, fire-resistant, curved and traditional);
- Vertical Pivot system (Product family BREZZA consisting hidden pivot, with panel of 50 mm or 100 mm thickness)
- Sliding system (product family MAREA, consisting of Concealed Sliding Doors, both the manual and motorized versions, and Pocket Doors)

In addition, Linvisibile is complemented by closure systems to meet, with effective and functional technical solutions, all enclosure and closure requirements (Extra Closures, Nicchio, Special Openings).

Linvisibile considers quality and scrupulousness in the choice of materials and production processes, essential for carrying out its business, and that is why it is totally committed to protecting its human and environmental resources without ever compromising the quality of products and processes.

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We are constantly innovating in every step of our value chain to maintain the highest manufacturing standards and promote sustainable practices.

Linvisibile obtained the ISO 9001 quality certification from ICILA, the sole specific certification entity for the furniture and woodwork industries. At the same time, our network of technicians, suppliers and experts, always at the designers' service, assures the quality of the services offered. All the Linvisibile products comply with UNI EN 316, UNI EN 952, UNI 7961 and international standards (eg BP - UAE Civil Protection and many more).

In addition Linvisibile has embarked on paths to environmental-related issues, thus entering the chain of custody chains directly, taking specific responsibilities towards his customers.

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## 2. LEED® RATING SYSTEM

Sources: USGBC, GBC ITALIA

LEED® - Leadership in Energy and Environmental Design - is a building certification system that was established on a voluntary basis and is applied in more than 140 countries worldwide. LEED standard is born in America by U.S. Green Building Council (USGBC), a nonprofit association founded in 1993, which now counts more than 20,000 members and has as its purpose the promotion and development of a comprehensive approach to sustainability, giving an acknowledgment to the virtuous performance in key areas of human and environmental health.

LEED standards, developed by USGBC, indicate the requirements to build environmentally friendly buildings, from an energy point of view and from the point of view of the consumption of all environmental resources involved in the implementation process.

LEED is a voluntary and consensus-based, for design, construction and management of sustainable land areas and high-performance buildings and is becoming more and more international. It can be used on any type of building and promotes an integrated design system that covers all aspects of the building.

LEED is also a flexible and articulated system that provides different formulations for new construction (Building Design & Construction - Schools - Core & Shell), existing buildings (EBOM - Existing Buildings Operations & Maintenance) and homes (LEED FOR HOMES and GBC HOME), for urban areas (ND - Neighborhood), maintaining a consistent bottom setting between the various areas.

Certification provides independent verification of third party performance of a building (whole or part of it) and / or urban areas. LEED certification, recognized internationally, asserts that a building is environmentally friendly and that is a healthy place to live and work.

Considering the entire process, from design to construction to testing, LEED requires a holistic approach, otherwise you can not achieve their goals. Only with a comprehensive integrated design and coordination with all the stakeholders involved you can create a harmonious building in all areas mentioned above.

Competitive advantages for those who adopt LEED standards, whether professionals or companies, are identifiable especially in the high quality of the building, in significant savings of operating costs that these buildings allow to obtain when compared to traditional buildings. In addition obviously to the benefits of third party certification.

LEED certification, in fact, provides a common approach to the market, on which to base choices and a measurable standard for every feature treated.

LEED is a flexible framework that allows design team and construction company to evaluate the strategy that optimizes relationship between building, its surroundings and healthiness of the interior. LEED rating system is divided into 7 sections (areas) organized into prerequisites and credits. Prerequisites in each section are required for building certification and give no score; credits can be chosen depending on project characteristics and give score. Credit score sum determines the certification level achieved.

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**LEED® rating system certifies building, does not certify individual products or components, but these may help to meet protocol requirements and consequently to obtain the relevant building scores.**

Following paragraphs will illustrate the excellence of LINVISIBILE (standard supplies) about LEED credits.

Credit contributions are referred to the version LEED NC 2009 ITALIA, while in gray boxes are made explicit contributions to the credits LEED BD + C V4.

At the end of this document, a summary table represent the contributions of the credits for the LEED BD + C V4 protocol.

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### 3. DOORS TOTALLY FLUSH WITH THE WALL (STANDARD SUPPLIES) AND LEED® RATING SYSTEM

#### MATERIAL AND RESOURCES AREA

##### MR c 2 - Construction Waste Management

*Intent is to divert construction and demolition debris from disposal in landfills and incineration facilities. Redirect recyclable recovered resources back to the manufacturing process and reusable materials to appropriate sites*

The packaging used for all types of doors are recyclable and are as follows:

- Cardboard
- Polyethylene films
- Aluminum

On request the type and weight of the packaging can be specified in the transport document.

##### LEED V 4 - 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.*

The packaging used for all types of doors are recyclable.

## MR c 4 – Recycled Content

*Intent is to increase demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction and processing of virgin materials .*

**Aluminum** has a 20% pre-consumer recycled content and 20% post-consumer defined according to ISO standard 14021.

Hardware can be made of **steel**. In this case, the recycled content is 25% post-consumer.

## MR c 5 – Regional material

*Intent is to increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the use of indigenous resources and reducing the environmental impacts resulting from transportation.*

In the table below, there are some instructions on working with the materials.

		Intermediate process CAP (Zip code)	Final process CAP (Zip code)
<b>PANEL</b>	<b>MDF</b>	33050	44011
	<b>Solid Wood</b>	37051 / 37025	44011
	<b>Honeycomb</b>	30174	44011
	<b>Hardware</b>	TREVISO	44011
<b>FRAME</b>	<b>Aluminum</b>	25030	44011

The extraction is in almost all cases outside the Italian borders, so LINVISIBILE products may only contribute to the credit MR Regional Materials of the LEED COMMERCIAL INTERIOR 2009 protocol. For more details on the specific product, contact technical office.

### LEED V 4 - 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.*

Linvisible is FSC certified and aluminum has recycled content as specified in LEED V 2009 credit MR c 4.

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## INDOOR AIR QUALITY AREA

### EQ c 4.1: Low emitting material: adhesive and sealant

*Intent is to reduce concentrations of chemical contaminants that can damage air quality, human health, productivity, and the environment.*

Installation does not involve the use of adhesives or sealants in most cases.

Where context requires, products used directly by LINVISIBILE are in compliance with this credit requirements.

If the installation is not made by LINVISIBILE, GEV Emicode binders and sealants (eg foams, silicones, etc.) must be used to meet the requirements of this credit, or in any case comply with the standards mentioned in the credit claim at the following link:

<https://www.usgbc.org/node/1732510?return=/credits/new-construction/v2009> .

### LEED V 4 – IAQ c 2 Low-emitting material

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

Installation does not involve the use of adhesives or sealants in most cases.

Where context requires, products used directly by LINVISIBILE are in compliance with this credit requirements.

If the installation is not made by LINVISIBILE, GEV Emicode binders and sealants (eg foams, silicones, etc.) must be used to meet the requirements of this credit, or in any case comply with the standards mentioned in the credit claim at the following link:

<https://www.usgbc.org/node/2614095?return=/credits>.

Note that GEV Emicode E1 plus certification meets the requirements both in terms of VOC content and in terms of General Emission Evaluation, as indicated in the downloadable document at the following link:

<https://www.usgbc.org/resources/low-emitting-materials-third-party-certification-table> .

## 5. FINAL SUMMARY

QualityNet believes that LINVISIBILE doors totally flush with the wall (standard supplies) can contribute to the LEED certification score in the credits indicated in the table below:

LEED V 2009 CREDIT	Points	Credit	Features	LINVISIBILE Doors totally flush with the wall (standard supplies)
MR c 2	1 - 2	Construction waste management	Recyclable packaging	✓
MR c 4	1 - 2	Recycled content	Aluminum and steel hardware with recycled content	✓

For more detailed information, please contact the technical department.

*Although QualityNet considers that the product tested can contribute to a LEED certification, please note that only GBCI (Green Business Certification Inc.) can attribute scores and issue a LEED certificate. Remembering that LEED certifies building and not the materials, QualityNet not express any assurance on the achievement of the score.*

**Dott.ssa. Iris Visentin LEED AP BD&C**

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## 6. LINVISIBILE DOORS TOTALLY FLUSH WITH THE WALL (STANDARD SUPPLIES) PRODUCT BADGE



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