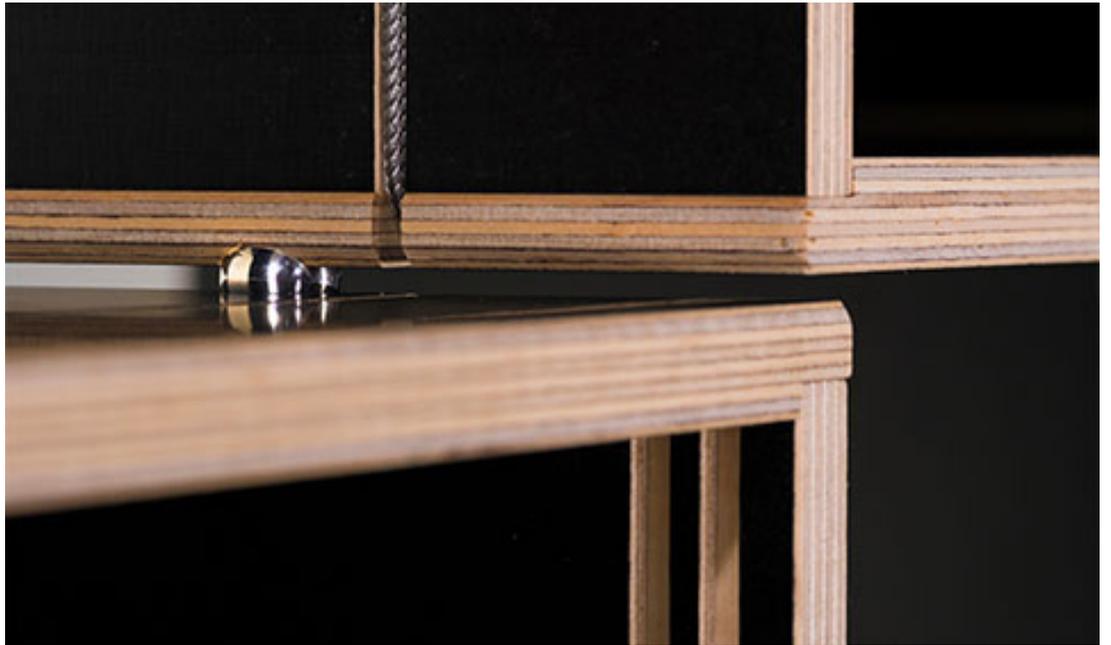


XILOBIS

VALUE OF SUSTAINABILITY



A UNIQUE FURNITURE SYSTEM - SUSTAINABLE
We strive for efficient use of resources, the use of environmentally friendly materials that reduce waste and avoid the use of dangerous substances.



contributes to
MRC2, MRC4
MRC6, EQC2
credits (CI v4)
CH01-18021901

19/02/2018

REV00

CH01-18021901

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XILOBIS

ENVIRONMENT AND SUSTAINABILITY

1. XILOBIS

Swiss invention. Xilobis has something of the genius of chess. A limited number of rules allows an infinite number of variants. As a sustainable solution, the modular furniture offers a high degree of mobility and flexibility in design.

ZEITGEIST

This modular furniture system corresponds to a modern spirit of time and was designed for people with an affinity to design, who like changing their living space from time to time or admire the flexibility to adjust or expand the office based on new requirements. Without the need for screws and tools the individual units can be removed, altered and expanded in only a few steps - without restricting themselves.

FLEXIBILITY

Our environment is increasingly demanding flexibility and mobility, encouraging a lifestyle marked by a reluctance to settle down. Freedom, versatility, individuality, and the willingness to experiment are our constant companions, also influencing the ways we want to live and work. This also changes the demands we place on our furniture. Besides purely aesthetic considerations, our need for changeability, sustainability, and flexibility is increasing - without losing sight of elegance and beauty.

If individual environment or design needs change, the furniture changes with ease - it always fits, and presents almost no limitations to your own creativity. This can contribute to MR credit "Design for Flexibility" in LEED™ V4 RATING SYSTEM.

MADE-TO-LAST

The idea behind xilobis was to build a modular system that remains modular and flexible during its entire lifespan and could easily adapt to new requirements. This means that the furniture is not restricting future developments as it can be reconfigured, extended or moved without tools and time consuming efforts. It remains a flexible, elegant, and unique piece of designer furniture that always fits.

What makes this product special is the particularity of the two conjunctions (ball and rope). Conventional joining techniques such as screws, brackets or glue are often the weakest point of a structure and are prone to wear and tear. In contrast, the individual elements at xilobis is fastened together with a cable/cord which does not stretch under the load, but

qualityvet®

Soluzioni per la Conformità



ensures the stability of the individual module and uses chromed steel balls as a flexible binding. The ball binding is very stable and remains so even under an increasing weight load - the load is evenly distributed across the balls. This protects the material and allows for repeated assembling, dismantling and reassembling without any loss of quality or wear and tear. The well-engineered system consists of precisely manufactured birch plywood sheets, in which the depressions required for binding are milled and drilled with the highest level of precision: Grooves for the specially made cable/rope loops and semi-circular depressions for the chromed steel balls.

SOCIAL RESPONSABILITY

"Made in Switzerland" isn't just lip service - it's a central pillar of the xilobis corporate philosophy. Xilobis modular furniture system wasn't just invented in Switzerland, it is also manufactured entirely in Switzerland.

Xilobis also works closely together with social institutions in manufacturing and inventory management. Small components are manufactured in workshops which provide protected employment positions for individuals with disabilities; the same is true for the central warehouse which is attended by passionate employees from the Züriwerk Foundation.

VALUES

Mission Statement

What we want to achieve with our behavior and how we keep our promise to our customers:

- **Independent:** We want successfully establish xilobis as a brand. To do that we need to generate returns, which reward those who are innovative and bring in jobs, and maintain our independence.
- **Sustainable:** We strive for efficient use of resources, the use of environmentally friendly materials that reduce waste and avoid the use of dangerous substances.
- **Winning:** We place the needs of our customers at the center of all our thoughts and actions, awake emotions and convey joy with design, durability and flexibility.
- **Exemplary:** We want all individuals in the company to contribute to the positive image of the company through their behavior, their communication and their appearance.
- **Swiss:** We are committed to production in Switzerland.

Values

We are here because...

- we give of our best in all that we do,
- we bring joy to our customers' homes and offices,
- we meet needs and exceed our customers' expectations,
- we use natural raw materials with respect and efficiently,
- we are economical with the company's resources,
- we treat our customers as we would like to be treated ourselves,
- we are entrepreneurial and fair with our business partners,
- we make a true contribution to sustainability.

Unique!

We continue to exceed the expectations of our customers and amaze the world with our unique character. We are able to do this because...

- our design is functional and timeless,
- we use impressive, precise methods to process natural, raw wood material,
- our products need no screws or fittings,
- the binding technology using ball and cable/cord is highly stable,
- the connecting elements form an important part of the design,
- the flexible connection system facilitates unlimited assembly, disassembly, and re-assembly of the product,
- our product can be extended and added to at any time,
- you can adjust the product to your spatial and visual needs in just a few steps,
- construction of the furniture is simple and requires no tools,
- it is lightweight and easy to transport, saves space, and requires very little storage room,
- the individual draft plans and orders are saved in your personal account on the furniture planner and can be added to at any time,
- the furniture planner is also available in a comfortable atmosphere over the internet,
- the endless combinations make furniture design a playful experience,
- it's simply fun to be creative!

MATERIALS

Wood

Xilobis is a natural birch wood furniture. The high demands on the strength of the timber components are met through the plywood or laminate technology. Thin layers of wood are glued together in different directions and thus ensure that the wood panel is "locked", so the swelling and shrinking behavior is homogenized. This birch plywood meets our needs better than a solid wood panel and can be processed more precisely. Xilobis uses only FSC-certified birch plywood processed using non-toxic glue (IF20, light glued joints).

Coatings

The surface coating consists of a wafer-thin paper foil protected by a film of melamine or phenol. The surface won't splinter on impact like common laminate. Another specialized characteristic of this natural surface is its comfortable, warm "touch" upon direct contact.

Doors

We manufacture doors from acrylic glass, beech, aluminum, iron, and slate. Besides natural glazes, for coloration we also use high-quality pigment paint colors by kt.Color.

Ball

A stainless steel ball with a diameter of 13mm.

Cable/Cords

The cable consists of two polyester cords. The inner cord provides long-term elasticity, and the sheath protects it from wear.

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 cannot 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.

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 XILOBIS 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.

XILOBIS and LEED® rating system

The LEED® rating system only certifies buildings and buildings. However, products can help meet the requirements of LEED credits, and thus help the building get the scores required for certification. In this part of the document you can see the description of the credits that XILOBIS considered in this document can contribute. This description is the result of a careful analysis of features and products in the light of the requirements, which led the company to adopt specific procedures for projects related to LEED certification projects.

In Figure 1 the checklist of credits (ie prerequisite titles and credits in the relevant reference areas and the scores assigned to the building) are shown and the credits to which the products in this document can contribute through. A red box, considering the main protocol namely "LEED FOR NEW CONSTRUCTION AND MAJOR RENOVATION V4 (LEED NC V4)".

LEED for New Construction and Major Renovations (v4)																									
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FIGURE 1

3. XILOBIS AND LEED® RATING SYSTEM

MATERIAL AND RESOURCES AREA

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

Credits in this section focus on two major issues: the environmental impact of materials entering the construction project and the minimization of disposal. In version 4 of the rating system, the Material and Resources area is the area that undergoes major changes, by highlighting good business practices and their environmental and social responsibility.

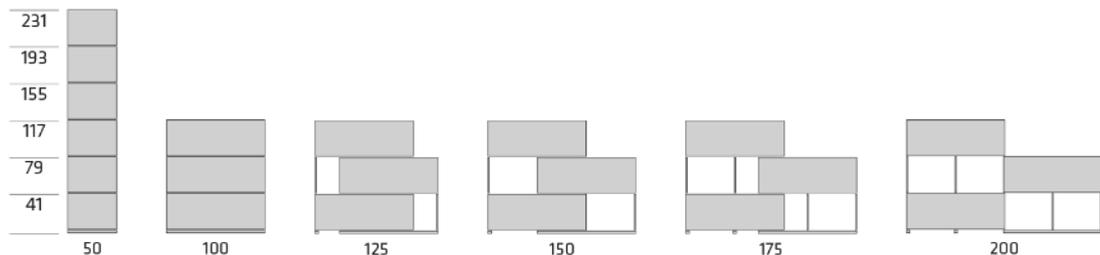
LEED® CI V4 – MRc2 Interiors life-cycle impact reduction

Intent: to encourage adaptive reuse and optimize the environmental performance of products and materials.

Option 3 of the credit 'OPTION 3. DESIGN FOR FLEXIBILITY' explains that one of the strategies to satisfy the requirement is that of "Design at least 50% of interior nonstructural walls, ceilings, and floors to be movable or demountable. Design at least 50% of the internal structural elements (ex: walls, ceilings and floors), so that they can be moved or dismantled." XILOBIS can meet this requirement, as described in the previous paragraph.

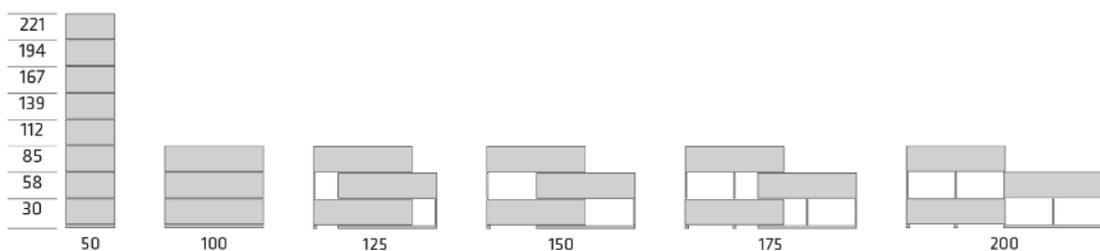
Grid of Xilobis System 38

Measurements in centimeters



Grid of Xilobis System 24

Measurements in centimeters



LEED® CI V4 - MRc4 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.

Doors in satin acrylic are 100% recycled. XILOBIS is implementing FSC certification.

LEED® CI V4 - MRc5 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

This is the list of chemical components, as stated by the suppliers:

Material	Chemical Component	CAS Number
Metal Ball	Carbon	7440-44-0
	Manganese	7439-96-5
	Silicon	7440-21-3
	Phosphorus	7723-14-0
	Sulfur	7704-34-9
	Chrome	7440-47-3
	Nickel	7440-02-0
	Molybdenum	7439-98-7
Rope	Aramid fibers	24938-64-5
	Polipropene	9003-07-0
Wood Panel	Wood essence (BETULLA)	See declaration attached in ATTACHED 1
	Glue	See declaration attached in ATTACHED 1
	Superior film	See declaration attached in ATTACHED 1
Door	Plexiglass - Polymethylmethacrylate	9011-14-7
Door – DIBOND®	Kore- polyethylene	9002-88-4
	Kore – aluminium (dibond)	-
	SURFACE:	
	Modified polyester paint system or	-
	Natural color	-
	Slate	-
	Quartzite	-
Sandstone	-	

Material	Chemical Component	CAS Number
Closet Legs	Carbon	7440-44-0
	Silicon	7440-21-3
	Manganese	7439-96-5
	Phosphorus	7723-14-0
	Sulfur	7704-34-9
	Lead	7439-92-1

ODEK HOLLAND LP

Suite 260, 2323-32 Avenue N.E.
Calgary, Alberta T2E 6Z3 Canada



23.01.2018

NON-USE WARRANTY FOR HEAVY METALS AND CHEMICAL SUBSTANCES – “ODEK” UKRAINE LLC

We hereby warrant that “ODEK” Ukraine LLC does not use below listed heavy metals, chemicals or their compounds in the manufacturing of plywood.

Plywood birch Smooth/Smooth E1 240 g/qm **Melamine white** EN 636-1/G FSC Mix 96%
Plywood birch Smooth/Smooth E1 120 g/qm **Phenolic black** EN 636-1/G FSC Mix 96%

<i>Heavy metal</i>	<i>CAS number</i>
Cadmium and its compounds	7440-43-9
Hexavalent Chromium	7440-47-3
Lead and its compounds	7439-92-1
Mercury and its compounds	7439-97-6
Nickel and its compounds	744-02-0
Tin and its compounds including dibutyltin (DBT) and tributyltin (TBT)	7440-31-5 688-73-3
Magnesium Silicate	14807-96-6
Arsenic and its compounds	7440-38-2

<i>Substance</i>	<i>CAS number</i>
Halogenated organic flame retardant	
Halogenated hydrocarbons	
Polychlorinated biphenyls (PCB)	
Alkyl phenols	
Phthalates	
Pentachlorophenol (PCP)	87-86-5
Lindane	58-89-9
Petroleum Resin C5	68477-55-4
Carbon Black	1333-86-4
Amorphous Polyolefin	9010-79-1
Asbestos fibres	

ODEK Holland LP,
Suite 260, 2323-32 Avenue N.E.
Calgary, Alberta T2E 6Z3 Canada



O. Tsipkovskiyi

LEED® CI V4 - MRc6 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.

Packaging used for all types of doors is recyclable and is composed as follows:

- Cardboard
- Polyethylene films

INDOOR AIR QUALITY AREA

In order to ensure the quality of the internal environment a common effort is needed from the client, the design team, contractors, subcontractors and suppliers. To provide optimum indoor environment quality can be integrated with the Automatic Sensor Building System and individual controls to regulate temperature, humidity and ventilation. Other issues related to indoor air quality covered by the LEED system include verification of thermal comfort, availability and quality of natural light with access to exterior views, acoustics. All these issues can enhance the quality of the indoor environment and optimize confined space for occupants of the building.

LEED® V 4 – EQc2 Low-emitting material

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

Xilobis is organizing to perform the ANSI BIFMA 7.6.1 AND 7.6.2 test at an accredited laboratory.

Panels are certified CARB ULEF (ODEK supplier).

The VOC emission of the XILOBIS system is believed to be at very low levels, since:

- In the assembly of the components (panels, metal, ropes and doors) glues are not used but they are dry and installation does not involve the use of adhesive or sealant;
- Only glue present is that contained in the panels, but in turn are low emissive (ULEF CARB Certified);
- Other components in addition to the panels are: metal balls (inert) and polypropylene rope outside and Para-Aramid inside.

4. FINAL SUMMARY

QualityNet believes that XILOBIS can contribute to the LEED® certification score in the credits indicated in the table below:

LEED NC V 2009 CREDIT	Points	Credit	Features	XILOBIS
MR c 2	1 - 2	Construction waste management	Recyclable packaging	✓
MR c 4	1 - 2	Recycled content	Doors in satin are recycled 100%.	✓
EQ 4	1-4	Low emitting materials*	ULEF CARB panels No adhesive applied in assembly or in the pose*	✓

LEED CI V 4 CREDIT	Points	Credit	Features	XILOBIS
MR c 2	1-2	Interiors Life-Cycle Impact Reduction	Design for flexibility	✓
MR c 4	1 - 2	MRC4 Building product disclosure and optimization - sourcing of raw materials*	Door in satin are recycled 100%.*	✓
MR c 6	1 - 2	Construction and Demolition waste management	Recyclable packaging	✓
EQ C 2	1 - 3	Low emitting materials*	ULEF CARB panels No adhesive applied in assembly or in the pose*	✓

*Xilobis is implementing FSC® certification and Ansi/Bifma M7.1 Voc test.

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 doesn't express any assurance on the achievement of the score.

Dott.ssa. Iris Visentin LEED AP BD&C

