

The logo features a green leaf icon to the left of the word "agape" in a lowercase, rounded font. To the right of "agape" is the text "LEED®" in a bold, uppercase, sans-serif font.



Agape products can help satisfy
the requirements of LEED® credits
Agape is a member of the Green Building Council Italia

The logo features a black teardrop-shaped icon to the left of the word "agape" in a bold, lowercase sans-serif font. To the right of "agape" is the word "LEED" in a smaller, uppercase sans-serif font, followed by a registered trademark symbol (®).

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1. Product handbook

Based on LEED® standard

Habitech Distretto Tecnologico Trentino S.c.a.r.l has implemented a project aimed toward the corporate system, aimed at providing **assistance in verifying the status of company products with respect to the LEED® certification system.**

This activity is carried out in collaboration with TÜV Italia, which, in order to support “sustainable building” through its services for certification activities in accordance with the LEED® standard, supports companies interested in obtaining LEED® Certification for buildings, and Recycled Content Certification in relation to construction materials.

This document has been published in compliance with the document prepared in collaboration with TÜV Italia, entitled: **“Guidelines for the interpretation and application of LEED® credits to building products”**, which describes the methods using which Habitech and TÜV Italia analyses a building material with respect to its contribution in terms of LEED® credits.

This Product Handbook cannot and must not be considered product certification pursuant to EN 45011. The features and performance characteristics of the products covered by this document are declared by the manufacturer under their own responsibility.

LEED® is a system for the certification of building sustainability, which considers energy efficiency, water management, the site on which the property has been constructed, the materials and resources using which it was built and the indoor air quality and thermal comfort of the building environments. It is therefore important that products used to develop the structure and fit-out of the building are able to demonstrate and explicate their compliance with the criteria of the standard and/or their contribution toward satisfying said criteria (in some cases, this involves the simple verification of certain information and parameters already known by the company).

Introduction

LEED® certification refers to the building, not the product, but it is easy to understand the fundamental role a product plays in obtaining the final score. All products involved in the project can therefore contribute to the allocation of credits, provided they comply with the specified requirements.

Those who participate in a LEED® project will search for supplier partners able to provide products that comply with the specified requirements and able to provide all information, documentation and certification indicating the performance characteristics of the product.

Habitech - Distretto Tecnologico Trentino offers a consulting service to companies, thanks to which they can position their product in terms of environmental sustainability and energy efficiency with respect to the LEED® standard.

The task of positioning was characterised by an initial meeting, during which Habitech consultants described the LEED® standard and specific credit requirements with respect to the submitted products; an in-depth study was then carried out on the products with the collaboration of company referees and technicians in order to evaluate to which credits the products could effectively contribute. Thanks to an in-depth study of the documentation issued by company referees, an analysis was carried out on the characteristics of the product with respect to LEED® credit requirements.

The next step was to identify the actions that would need to be taken by the company in order to best satisfy the identified credit requirements. Based on the elements that emerged, the company referees developed and optimised the analysed product lines in order that their attributes fell completely within the limits indicated by the identified credit requirements.

Finally, an indication was provided in relation to how to communicate the possible contribution of the analysed products with respect to the credits and standard.

The final scope of positioning is to help the company acquire sufficient skills in order to autonomously satisfy LEED® requirements when requested by the market.

LEED®

Leadership in Energy Environmental Design

The LEED® (Leadership in Energy Environmental Design) standard is a voluntary type standard that regulates the management, design and construction of sustainable buildings from a social, environmental and economic point of view, taking into account the user's wellbeing. Founded in the United States in 1993 further to the wishes of the Green Building Council, the unique feature of this standard lies in the fact that it affects all areas of building design, for example but not limited to: the choice of site where the building will be erected, management of the work-site, cautious water use, system and casing efficiency, the use of renewable energy, the use of materials with a recycled content, the quality and comfort of indoor environments. In Italy, LEED® was introduced by Habitech Distretto Tecnologico Trentino in 2006, which subsequently founded and promoted the Green Building Council Italia with the aim of diffusing the standard in Italy and enabling the creation of LEED® Italia per Nuove Costruzioni e Ristrutturazioni, based on the American LEED® standard for New Construction and Major Renovation, v3 (2009).

LEED® Italia

New construction and Renovations

This is applicable to commercial buildings, including offices, institutional buildings (libraries, museums, churches, etc.) and residential buildings with at least 4 storeys above ground.

Other LEED® USA standards also exist in relation to:

- works on existing buildings (EB, Existing Buildings);
- small homes (LEED® for Homes).
- commercial interiors (CI, Commercial Interiors);

On 14th April 2010, GBC Italia launched LEED® Italia, a version based on Italian and European legislation, but with the same principles and criteria as the American version.

LEED® Italia building certification is based on a credit structure consisting in seven thematic areas:

1. Site Sustainability (SS)
2. Water Efficiency (WE)
3. Energy and Atmosphere (EA)
4. Materials and Resources (MR)
5. Indoor Environmental Quality (IEQ)
6. Innovation and Design Process (ID)
7. Regional Priorities (RP)

The credits are structured in: prerequisites, central credits and credits for innovation. During the certification phase, the project must satisfy all the specified prerequisites, insofar as mandatory, while credits are attributed based on the level reached by the considered requirements, assessed according to established criteria.

The final score is obtained by adding the points awarded for each thematic area and determines the level of certification obtained:

- Certificate (40 – 49 points)
- Silver (50 – 59 points)
- Gold (60 – 79 points)
- Platinum (80 points and over)

LEED® certification for Commercial Interiors

This refers to commercial building interiors; it is the recognised system for the certification of high-performance interiors that are proven to be healthy, productive workplaces, which are less expensive to manage and maintain and have a reduced environmental impact. LEED for Commercial Interiors offers designers and tenants, who don't always have control over the entire building's operations, the opportunity to make sustainable choices. LEED® certification is a building certification, therefore it is not possible to acknowledge or certify a building product according to the LEED® system, given that the credit requirements used to earn points refer to the characteristics and performance of the entire set of materials used in the building, not of the single product. The role of building materials within LEED® certification is therefore to contribute, or in some cases, be compliant with, the requirements of the prerequisites or credits.

The US Green Building Council issues specific policies that regulate the use of the USGBC brand and correct forms using which to communicate the fact that one's own products contribute to the LEED® standard. At the time of drafting of this document, GBC Italia had prepared a document regulating use of the GBC ITALIA logo, an important communication tool and asset of the GBC Italia community. Use of the logo is regulated by guidelines intended to protect the rights of GBC Italia. The failure of partners to comply with these guidelines may be grounds for the commencement of legal proceedings for censorship or expulsion. Below are the Check Lists for the following credits: LEED® Italia per le Nuove Costruzioni e Ristrutturazioni, LEED® for New Construction and Major Renovation and LEED® for Commercial Interiors.

1.1 Table 1

CHECK LIST LEED® Italia

New construction and Renovations

D/C		Thematic Area	Points
	SS	Site Sustainability	26 Points
C	Prerequisite1	Construction activity pollution prevention Reduce pollution generated by construction activities by controlling soil erosion phenomena and sedimentation in receiving waters and the production of dust.	Mandatory
D	Credit1	Site selection Avoid construction in inappropriate areas and reduce the environmental impact of locating a building on a site.	1
D	Credit2	Development density and community connectivity Orientate building development toward urban areas where services and infrastructure already exist, protect green areas and preserve natural habitats and resources.	5
D	Credit3	Brownfield redevelopment Reclaim and redevelop degraded sites where settlement patterns are hindered by environmental pollution, thus reducing non-urbanised land consumption.	1
D	Credit4.1	Alternative transportation: public transportation access Reduce pollution and the environmental impact generated by automotive traffic.	6
D	Credit4.2	Alternative transportation: Bicycle storage and changing rooms Reduce pollution and the environmental impact generated by automotive traffic.	1
D	Credit4.3	Alternative transportation: low-emitting and fuel-efficient vehicles Reduce pollution and the environmental impact generated by automotive traffic.	3
D	Credit4.4	Alternative transportation: parking capacity Reduce pollution and the environmental impact generated by automotive traffic.	2
C	Credit5.1	Site development: protect and restore habitat Preserve natural areas and existing agrarian landscapes, redevelop damaged areas to provide a flora and fauna habitat and promote biodiversity.	1
D	Credit 6.1	Stormwater design: quality control Limit alterations to the dynamics of the natural water cycle by reducing waterproofed surface areas, increasing on-site filtration, reducing or eliminating pollution caused by stormwater outflows and eliminating contaminants.	1
D	Credit6.2	Quality control Reduce or eliminate water pollution through the proper management of rainwater outflows.	1
C	Credit7.1	Heat island effect: non-roof Reduce the heat island effect (difference in temperature between urbanised and natural areas) to minimise the impact on the micro-climate and on the human and animal habitat.	1
C	Credit7.2	Heat island effect: roof Reduce the heat island effect (difference in temperature between urbanised and natural areas) to minimise the impact on the micro-climate and on the human and animal habitat.	1

D: Design

C: Construction

D/C		Thematic Area	Points
D	Credit8	Light pollution reduction Minimise light dispersions generated by the building and site, limit the brightness of the sky in order to improve nocturnal visual access to the sky, improve nocturnal visibility by reducing glare phenomena and reduce the negative impact of building lights during the night.	1
	WE	Water efficiency	10 Points
D	Prerequisite1	Water use reduction Increase the efficiency of water usage in buildings to reduce the load on local water supply and sewage systems.	Mandatory
D	Credit1	Water efficient landscaping Efficient irrigation water management, limit or avoid the use of potable water, surface or underground waters available in the proximity of the site's location, for irrigation purposes.	From 2 to 4
D	Credit2	Innovative wastewater technologies Reduce wastewater production and the demand for potable water, and at the same time increase aquifer water levels.	2
D	Credit3	Water use reduction Further improve the efficiency of water usage in buildings to reduce the load on municipal water supply and sewage systems.	From 2 to 4
	EA	Energy and atmosphere	35 Points
C	Prerequisite1	Fundamental commissioning of the Building Energy Systems Check that the building's energy systems are installed, calibrated and function in accordance with the client's needs, project and contractual documentation.	Mandatory
D	Prerequisite2	Minimum energy performance Establish a minimum level of energy efficiency for buildings and proposed installations in order to reduce the economic and environmental impacts resulting from excessive power consumption.	Mandatory
D	Prerequisite3	Fundamental refrigerant management Reduce the destruction of the ozone layer.	Mandatory
D	Credit1	Optimise energy performance Achieve growing levels of energy performance characteristics for buildings and their proposed installations, above the minimum values requested by legislation, in order to reduce environmental and economic impacts associated with excessive use of power.	From 1 to 19
D	Credit2	On-site renewable energy Promote an increasing level of on-site renewable energy production in order to reduce environmental and economic impacts associated with the use of fossil fuels.	From 1 to 7

D: Design

C: Construction

D/C		Thematic Area	Points
D	Credit3	Enhanced commissioning Commence the commissioning process during the early stages of the design and perform additional activities once the performance characteristics of installations have been verified.	2
D	Credit4	Enhanced refrigerant management Minimise direct contributions to global warming.	2
C	Credit5	Measurement and verification Provide accounting for the building's energy consumption over time.	3
C	Credit6	Green power Promote the development and use of technologies for the production of electrical energy from renewable sources (zero emission) with connection to the national grid.	2
	MR	Materials and Resources	14 Points
D	Prerequisite1	Storage and collection of recyclables Reduce the amount of waste produced by building occupants, which is transported and disposed of in dumping grounds.	Mandatory
C	Cedit1.1	Building reuse: maintain existing walls, floors and roof Extend the life cycle of existing building heritage, preserve resources, protect cultural heritage, reduce waste and the environmental impact of new constructions also in relation to the production and transport of materials.	From 1 to 3
C	Credit1.2	Building reuse: maintain 50% of interior non-structural elements Extend the life cycle of existing building heritage, preserve resources, protect cultural heritage, reduce waste and the environmental impact of new constructions also in relation to the production and transport of materials.	1
C	Credit2	Construction waste management Divert waste generated by construction and demolition activities from dumping grounds to recycling facilities for resources that can be reused in the production process and redirect reusable materials to dedicated collection sites.	From 1 to 2
C	Credit3	Materials reuse Reuse construction materials and products in such a way as to reduce the demand for virgin materials and waste production, thus limiting environmental impacts associated with the extraction and processing of primary resources.	From 1 to 2
C	Credit4	Recycled content Increase the demand for construction materials that contain recycled materials, thus reducing impacts resulting from the extraction and processing of virgin materials.	From 1 to 2
C	Credit5	Regional materials (extracted, processed and produced at a limited distance) Increase the demand for construction products and materials extracted and processed in a regional environment, thus supporting the use of local resources and reducing impacts on the environment resulting from transport.	From 1 to 2

D: Design

C: Construction

D/C		Thematic Area	Points
C	Credit6	Rapidly renewable materials Reduce the use and exploitation of primary materials and those with a long cycle of renewal, replacing them with rapidly renewable materials.	1
C	Credit7	Certified wood The LEED® committee has decided to adopt the new version of this credit, which is still being evaluated by the USGBC; this credit is therefore temporarily suspended until further notification is received.	1
	EQ	Indoor environmental quality	15 Points
D	Prerequisite1	Minimum IEQ performance Determine the minimum performance characteristics for air quality inside the building, in order to protect the health of occupants, improve the quality of occupied spaces and contribute to achieving comfortable conditions for occupants themselves.	Mandatory
D	Prerequisite2	Environmental tobacco smoke control Minimise environmental exposure to tobacco smoke (ETS) of building occupants, indoor areas and ventilation systems.	Mandatory
D	Credit1	Outdoor air delivery monitoring Provide the possibility to monitor the performance characteristics of ventilation systems in order to maintain the comfort and wellbeing of occupants.	1
D	Credit2	Increased ventilation Provide an additional air exchange in order to improve indoor air quality and the comfort of occupants. This requisite is necessary insofar as indoor pollution levels in the case of occupied spaces are difficult to control with the minimum ventilation levels suggested by current laws. The new European standard sets out higher ventilation levels than those traditionally considered valid for residential and service sectors.	1
C	Credit 3.1	Construction IEQ management plan: during construction Reduce indoor air quality (IEQ) problems resulting from construction/renovation processes in order to guarantee the comfort and wellbeing of workers and building occupants.	1
C	Credit 3.2	Construction IEQ management plan: before occupancy Reduce indoor air quality problems resulting from construction/renovation processes in order to guarantee the comfort and wellbeing of workers and building occupants.	1
C	Credit 4.1	Low-emitting materials: adhesives, primers, sealants, cement-based materials and finishes for wood Reduce the amount of contaminants inside the building that are odorous, irritating and/or harmful to the comfort and wellbeing of installers and occupants.	1
C	Credit 4.2	Low-emitting materials: paints and coatings Reduce the amount of polluting agents in the air in indoor environments, which are odorous, irritating and/or damaging to the comfort and wellbeing of installers and	1

D: Design

C: Construction

D/C		Thematic Area	Points
		occupants.	
C	Credit 4.3	Low-emitting materials: flooring systems Reduce the amount of contaminants inside the building that are odorous, irritating and/or harmful to the comfort and wellbeing of installers and occupants.	1
C	Credit 4.4	Low-emitting materials: composite wood and agrifibre products Reduce the amount of contaminants inside the building that are odorous, irritating and/or harmful to the comfort and wellbeing of installers and occupants.	1
D	Credit 5	Indoor chemical and pollutant source control Minimise the exposure of occupants to particulate matter and potentially hazardous chemical pollutants.	1
D	Credit 6.1	Controllability of systems: lighting Provide a high level of control of lighting systems for individual occupants or groups in collective spaces (for example classrooms and conference halls) and promote their productivity, comfort and wellbeing.	1
D	Credit 6.2 C	Controllability of systems: thermal comfort Guarantee individuals and groups of users occupying collective spaces (for example classrooms, conference halls, etc.) a high level of control of the thermal parameters of systems in order to ensure the comfort, wellbeing and productivity of the building's occupants.	1
D	Credit 7.1	Thermal comfort: design Create comfortable thermal conditions that promote the wellbeing and productivity of the building's occupants.	1
D	Credit 7.2	Thermal comfort: verification Create comfortable thermal conditions that promote the wellbeing and productivity of the building's occupants.	1
D	Credit 8.1	Daylight and views: daylight for 75% of spaces In continuously occupied areas, ensure the building's occupants have direct contact with the outdoor environment through the natural lighting of spaces and a suitable visual perception of the exterior.	1
D	Credit 8.2	Daylight and views: views for 90% of spaces In continuously occupied areas, ensure the building's occupants have direct contact with the outdoor environment through the natural lighting of spaces and a suitable visual perception of the exterior.	1
	ID	Innovation and Design Process	6 Points
D	Credit 1	Design Innovation Allow project groups and projects to earn points for exemplary performance characteristics with respect to those set out by the LEED® per Nuove Costruzioni	From 1 to 5

D: Design

C: Construction

D/C		Thematic Area	Points
		classification system, and also innovative characteristics not specifically included in LEED® categories.	
C	Credit 2	LEED® Accredited Professional (LEED® AP)	1
		Support and promote the design integrations requested by LEED® to encourage application and certification.	
	RP	Regional Priority	4 Points
	Credit 1	Regional Priority	From 1 to 4
	Total score		110 Points

1.2 Tabella 2

CHEK LIST LEED®

For New Construction an Major Renovation

D/C		Thematic Area	Points
	SS	Sustainable Sites	26 Points
C	Prerequisite	Construction Activity Pollution Prevention Reduce the pollution generated by construction activities, checking for erosion phenomena and sedimentation in receiving waters and the production of dust.	Mandatory
D	Credit 1	Site Selection Avoid edification in inappropriate areas and reduce the environmental impact of locating a building in a site.	1
D	Credit 2	Development Density & Community Connectivity Orientate building development toward urbanised areas where services and infrastructure already exist, protect green areas and preserve natural habitats and resources.	5
D	Credit 3	Brownfield Redevelopment Reclaim and redevelop degraded sites where settlement patterns are hindered by environmental pollution, thus reducing non-urbanised land consumption.	1
D	Credit 4.1	Alternative Transportation, Public Transportation Access Reduce pollution and the environmental impact generated by automotive traffic.	6
D	Credit 4.2	Alternative Transportation, Bicycle Storage & Changing Rooms Reduce pollution and the environmental impact generated by automotive traffic.	1
D	Credit 4.3	Alternative Transportation, Low-Emitting and Fuel-Efficient Vehicles Reduce pollution and the environmental impact generated by automotive traffic.	3
D	Credit 4.4	Alternative Transportation, Parking Capacity Reduce pollution and the environmental impact generated by automotive traffic.	2
C	Credit 5.1	Site Development, Protect and Restore Habitat Preserve natural areas and existing agrarian landscapes, redevelop damaged areas to provide a flora and fauna habitat and promote biodiversity.	1
D	Credit 5.2	Site Development, Maximize Open Space Provide a large area of open, natural space in proportion to the developed area to promote biodiversity.	1
D	Credit 6.1	Stormwater Design, Quantity Control Limit alterations to the dynamics of the natural water cycle by reducing waterproofed surface areas, increasing on-site filtration, reducing or eliminating pollution from stormwater outflows and eliminating contaminants.	1
D	Credit 6.2	Stormwater Design, Quality Control Reduce or eliminate pollution from water flows through the management of rainwater outflows.	1
C	Credit 7.1	Heat Island Effect, Non-Roof Reduce the heat island effect (difference in temperature between urbanised and natural areas) to minimise the impact on the micro-climate and on the human and animal habitat.	1
D	Credit 7.2	Heat Island Effect, Roof Reduce heat islands (difference in temperature between urbanised and natural areas) to	1

D: Design

C: Construction

D/C		Thematic Area	Points
		minimise the impact on the micro-climate and on the human and animal habitat.	
D	Credit 8	Light Pollution Reduction Minimise light dispersions generated by the building and site, limit the brightness of the sky in order to improve nocturnal visual access to the sky, improve nocturnal visibility by reducing glare phenomena and reduce the negative impact of building lights during the night.	1
	WE	Water Efficiency	10
D	Prerequisite 1	Water Use Reduction Increase the efficiency of water usage in buildings to reduce the load on local water supply and sewage systems.	Mandatory
D	Credit 1	Water Efficient Landscaping Efficient irrigation water management, limit or avoid the use of potable water, surface or underground waters available in the proximity of the site, for irrigation purposes.	From 2 to 4
D	Credit 2	Innovative Wastewater Technologies Reduce wastewater production and the demand for potable water, and at the same time increase aquifer water levels.	2
D	Credit 3	Water Use Reduction Further increase the efficiency of water usage in buildings to reduce the load on local water supply and sewage systems.	From 2 to 4
	EA	Energy & Atmosphere	35 points
C	Prerequisite	Fundamental Commissioning of the Building Energy Systems Check that the building's energy systems are installed, calibrated and work in accordance with the client's needs, project and contractual documentation.	Mandatory
D	Prerequisite	Minimum Energy Performance Establish a minimum level of energy efficiency for buildings and proposed installations in order to reduce the economic and environmental impacts resulting from excessive energy usage.	Mandatory
D	Prerequisite	Fundamental Refrigerant Management Reduce the destruction of the ozone layer.	Mandatory
D	Credit 1	Optimise Energy Performance Achieve growing levels of energy performance characteristics for buildings and their proposed installations, above the minimum values requested by legislation, in order to reduce environmental and economic impacts associated with excessive use of power.	From 1 to 19
D	Credit 2	On-Site Renewable Energy Promote an increasing level of on-site renewable energy production in order to reduce environmental and economic impacts associated with the use of fossil fuels.	From 1 to 7

D/C		Thematic Area	Points
D	Credit 3	Enhanced Commissioning Commence the commissioning process during the early stages of the design and perform additional activities once the performance characteristics of installations have been verified.	2
D	Credit 4	Enhanced Refrigerant Management Minimise direct contributions to global warming.	2
C	Credit 5	Measurement & Verification Provide accounting for the building's energy consumption over time.	3
C	Credit 6	Green Power Promote the development and use of technologies for the production of electrical energy from renewable sources (zero emission) with connection to the national grid.	2
	MR	Materials & Resources 14 Points	
D	Prerequisite	Storage & Collection of Recyclables Reduce the amount of waste produced by building occupants, which is transported and disposed of in dumping grounds.	Mandatory
C	Credit 1.1	Building Reuse, Maintain Existing Walls, Floors & Roof Extend the life cycle of existing building heritage, preserve resources, protect cultural heritage, reduce waste and the environmental impact of new constructions also in relation to the production and transport of materials.	From 1 to 3
C	Credit 1.2	Building Reuse, Maintain Interior Non-Structural Elements Extend the life cycle of existing building heritage, preserve resources, protect cultural heritage, reduce waste and the environmental impact of new constructions also in relation to the production and transport of materials.	1
C	Credit 2	Construction Waste Management Divert waste generated by construction and demolition activities from dumping grounds or incinerators. Re-insert recyclables back into the production process and redirect reusable materials to dedicated collection sites.	From 1 to 2
C	Credit 3	Materials Reuse Reuse construction materials and products in such a way as to reduce the demand for virgin materials and waste production, thus limiting environmental impacts associated with the extraction and processing of primary resources.	From 1 to 2
C	Credit 4	Recycled Content Increase the demand for construction materials that contain recycled materials, thus reducing impacts resulting from the extraction and processing of virgin materials.	From 1 to 2
C	Credit 5	Regional Materials Materials extracted, processed and produced in a regional environment, thus supporting the use of local resources and reducing impacts on the environment resulting from transport.	From 1 to 2

D: Design

C: Construction

D/C		Thematic Area	Points
C	Credit 6	Rapidly Renewable Materials Reduce the use and exploitation of primary materials and those with a long cycle of renewal, replacing them with rapidly renewable materials.	1
C	Credit 7	Certified Wood The LEED® committee has decided to adopt the new version of this credit, which is still being evaluated by the USGBC; this credit is therefore temporarily suspended until further notification is received.	1
	IEQ	Indoor Environmental Quality	15 Points
D	Prerequisite 1	Minimum IEQ Performance Determine the minimum performance characteristics for air quality inside the building, in order to protect the health of occupants, improve the quality of occupied spaces and contribute to achieving comfortable conditions for occupants themselves.	Mandatory
D	Prerequisite 2	Environmental Tobacco Smoke Control Minimise environmental exposure to tobacco smoke (ETS) of building occupants, indoor areas and ventilation systems.	Mandatory
D	Prerequisite 3	Minimum Acoustical Performance Provide for acoustic insulation such that learning activities are not penalised.	Mandatory
D	Credit 1	Outdoor Air Delivery Monitoring Provide the possibility to monitor the performance characteristics of ventilation systems in order to maintain the comfort and wellbeing of occupants.	1
D	Credit 2	Increased Ventilation Provide an additional air exchange in order to improve indoor air quality and the comfort of occupants. This requisite is necessary insofar as indoor pollution levels in the case of occupied spaces are difficult to control with the minimum ventilation levels suggested by current laws.	1
C	Credit 3.1	Construction IEQ Management Plan, During Construction Reduce indoor air quality (IEQ) problems resulting from construction/renovation processes in order to guarantee the comfort and wellbeing of workers and occupants of the building.	1
C	Credit 3.2	Construction IEQ Management Plan, Before Occupancy Reduce indoor air quality problems resulting from construction/renovation processes in order to guarantee the comfort and wellbeing of workers and building occupants.	1
C	Credit 4.1	Low-Emitting Materials, Adhesives & Sealants Reduce the amount of contaminants inside the building that are odorous, irritating and/or harmful to the comfort and wellbeing of installers and occupants.	1
C	Credit 4.2	Low-Emitting Materials, Paints & Coatings Reduce the amount of polluting agents in the air in indoor environments, which are odorous, irritating and/or damaging to the comfort and wellbeing of installers and occupants.	1

D: Design

C: Construction

D/C		Thematic Area	Points
C	Credit 4.3	Low-Emitting Materials, Flooring Systems Reduce the amount of contaminants inside the building that are odorous, irritating and/or harmful to the comfort and wellbeing of installers and occupants.	1
C	Credit 4.4	Low-Emitting Materials, Composite Wood & Agrifiber Products Reduce the amount of contaminants inside the building that are odorous, irritating and/or harmful to the comfort and wellbeing of installers and occupants.	1
D	Credit 5	Indoor Chemical & Pollutant Source Control Minimise the exposure of occupants to particulate matter and potentially hazardous chemical pollutants.	1
D	Credit 6.1	Controllability of Systems, Lighting Provide a high level of control of lighting systems for individual occupants or groups in collective spaces (for example classrooms and conference halls) and promote their productivity, comfort and wellbeing.	1
D	Credit 6.2	Controllability of Systems, Thermal Comfort Guarantee individuals and groups of users occupying collective spaces (for example classrooms, conference halls, etc.) a high level of control of the thermal parameters of systems in order to ensure the comfort, wellbeing and productivity of the building's occupants.	1
D	Credit 7.1	Thermal Comfort, Design Create comfortable thermal conditions that promote the wellbeing and productivity of the building's occupants.	1
D	Credit 7.2	Thermal Comfort, Verification Create comfortable thermal conditions that promote the wellbeing and productivity of the building's occupants.	1
D	Credit 8.1	Daylight & Views, Daylight 75% of Spaces In continuously occupied areas, ensure the building's occupants have direct contact with the outdoor environment through the natural lighting of spaces and a suitable visual perception of the exterior.	1
D	Credit 8.2	Daylight & Views, Views for 90% of Spaces In continuously occupied areas, ensure the building's occupants have direct contact with the outdoor environment through the natural lighting of spaces and a suitable visual perception of the exterior.	1
ID		Innovation & Design Process 6 Points	6 Points
D	Credit 1.1 -1.5	Innovation or Exemplary Performance: Provide Specific Title Allow project groups and projects to earn points for exemplary performance characteristics with respect to those set out by the LEED® per Nuove Costruzioni classification system, and also innovative characteristics not specifically included in LEED® categories.	From 1 to 5

D: Design

C: Construction

D/C		Thematic Area	Points
C	Credit 2	LEED® Accredited Professional	1
		Support and promote the design integrations requested by LEED® to encourage application and certification.	
	RP	Regional Priority 4 Points	
	Credit 1	Regional Priority From 1 to 4	
	Total score		110 Points

1.3 Tabella 3

CHEK LIST LEED®

For Commercial Interior

D/C		Thematic Area	Points
	SS	Sustainable Sites	21 Points
D	Credit 1	Site Selection Avoid edification in inappropriate areas and reduce the environmental impact of cating a building in a site.	From 1 to 5
D	Credit 2	Development Density & Community Connectivity Orientate building development toward urbanised areas where services and infrastructure already exist, protect green areas and preserve natural habitats and resources.	6
D	Credit 3.1	Alternative Transportation, Public Transportation Access Reduce pollution and the environmental impact generated by automotive traffic.	6
D	Credit 3.2	Alternative Transportation, Bicycle Storage & Changing Rooms Reduce pollution and the environmental impact generated by automotive traffic.	2
D	Credit 3.3	Alternative Transportation, Parking Availability Reduce pollution and the environmental impact generated by automotive traffic.	2
	WE	Water Efficiency	11 Points
D	Prerequisite 1	Water Use Reduction – 20% Reduction Increase the efficiency of water usage in buildings to reduce the load on local water supply and sewage systems.	Mandatory
D	Credit 1	Water Use Reduction Further increase the efficiency of water usage in buildings to reduce the load on local water supply and sewage systems.	From 6 to 11
	EA	Energy & Atmosphere 37 Points	37 Points
C	Prerequisite 1	Fundamental Commissioning of the Building Energy Systems Check that the building's energy systems are installed, calibrated and work in accordance with the client's needs, project and contractual documentation.	Mandatory
D	Prerequisite 2	Minimum Energy Performance Establish a minimum level of energy efficiency for buildings and proposed installations in order to reduce the economic and environmental impacts resulting from excessive energy usage.	Mandatory
D	Prerequisite 3	Fundamental Refrigerant Management Reduce the destruction of the ozone layer.	Mandatory
D	Credit 1.1	Optimize Energy Performance – Lighting Power Achieve growing levels of energy performance characteristics for buildings and their proposed installations, above the minimum values requested by legislation, in order to reduce environmental and economic impacts associated with excessive use of power.	From 1 to 5

D: Design

C: Construction

D/C		Thematic Area	Points
D	Credit 1.2	Optimise Energy Performance – Lighting Controls From Achieve growing levels of energy performance characteristics for buildings and their proposed installations, above the minimum values requested by legislation, in order to reduce environmental and economic impacts associated with excessive use of power.	1 to 3
D	Credit 1.3	Optimise Energy Performance – HVAC Achieve growing levels of energy performance characteristics for buildings and their proposed installations, above the minimum values requested by legislation, in order to reduce environmental and economic impacts associated with excessive use of power.	From 5 to 10
D	Credit 1.4	Optimise Energy Performance – Equipment and Appliances Achieve growing levels of energy performance characteristics for buildings and their proposed installations, above the minimum values requested by legislation, in order to reduce environmental and economic impacts associated with excessive use of power.	From 1 to 4
D	Credit 2	Enhanced Commissioning Commence the commissioning process during the early stages of the design and perform additional activities once the performance characteristics of installations have been verified.	5
C	Credit 3	Measurement & Verification Provide accounting for the building's energy consumption over time.	From 2 to 5
C	Credit 4	Green Power Promote the development and use of technologies for the production of electrical energy from renewable sources (zero emission) with connection to the national grid.	5
MR		Materials & Resources	14 Points
D	Prerequisite 1	Storage & Collection of Recyclables Reduce the amount of waste produced by building occupants, which is transported and disposed of in dumping grounds.	Mandatory
C	Credit 1.1	Tenant Space – Long-Term Commitment	From 1 to 3
C	Credit 1.2	Building Reuse Extend the life cycle of existing building heritage, preserve resources, protect cultural heritage, reduce waste and the environmental impact of new constructions also in relation to the production and transport of materials.	1
C	Credit 2	Construction Waste Management Divert waste generated by construction and demolition activities from dumping grounds or incinerators. Re-insert recyclables back into the production process and redirect reusable materials to dedicated collection sites.	From 1 to 2
C	Credit 3.1	Materials Reuse Reuse construction materials and products in such a way as to reduce the demand for virgin materials and waste production, thus limiting environmental impacts associated with the extraction and processing of primary resources.	From 1 to 2

D: Design

C: Construction

D/C		Thematic Area	Points
C	Credit 3.2	Materials Reuse - Furniture and Furnishings Reuse construction materials and products in such a way as to reduce the demand for virgin materials and waste production, thus limiting environmental impacts associated with the extraction and processing of primary resources.	From 1 to 2
C	Credit 4	Recycled Content Increase the demand for construction materials that contain recycled materials, thus reducing impacts resulting from the extraction and processing of virgin materials.	From 1 to 2
C	Credit 5	Regional Materials Materials extracted, processed and produced in a regional environment, thus supporting the use of local resources and reducing impacts on the environment resulting from transport.	From 1 to 2
C	Credit 6	Rapidly Renewable Materials Reduce the use and exploitation of primary materials and those with a long cycle of renewal, replacing them with rapidly renewable materials.	1
C	Credit 7	Certified Wood Encourage responsible forest management.	1
IEQ		Indoor Environmental Quality	15 Points
D	Prerequisite1	Minimum IEQ Performance Determine the minimum performance characteristics for air quality inside the building, in order to protect the health of occupants, improve the quality of occupied spaces and contribute to achieving comfortable conditions for occupants themselves.	Mandatory
D	Prerequisite2	Environmental Tobacco Smoke Control Minimise environmental exposure to tobacco smoke (ETS) of building occupants, indoor areas and ventilation systems.	Mandatory
D	Credit 1	Outdoor Air Delivery Monitoring Provide the possibility to monitor the performance characteristics of ventilation systems in order to maintain the comfort and wellbeing of occupants.	1
D	Credit 2	Increased Ventilation Provide an additional air exchange in order to improve indoor air quality and the comfort of occupants. This requisite is necessary insofar as indoor pollution levels in the case of occupied spaces are difficult to control with the minimum ventilation levels suggested by current laws.	1
C	Credit 3.1	Construction IEQ Management Plan, During Construction Reduce indoor air quality (IEQ) problems resulting from construction/renovation processes in order to guarantee the comfort and wellbeing of workers and building occupants.	1
C	Credit 3.2	Construction IEQ Management Plan, Before Occupancy Reduce indoor air quality problems resulting from construction/renovation processes	1

D: Design

C: Construction

D/C		Thematic Area	Points
		in order to guarantee the comfort and wellbeing of workers and building occupants.	
C	Credit 4.1	Low-Emitting Materials, Adhesives & Sealants Reduce the amount of contaminants inside the building that are odorous, irritating and/or harmful to the comfort and wellbeing of installers and occupants.	1
C	Credit 4.2	Low-Emitting Materials, Paints & Coatings Reduce the amount of polluting agents in the air in indoor environments, which are odorous, irritating and/or damaging to the comfort and wellbeing of installers and occupants.	1
C	Credit 4.3	Low-Emitting Materials, Flooring Systems Reduce the amount of contaminants inside the building that are odorous, irritating and/or harmful to the comfort and wellbeing of installers and occupants.	1
C	Credit 4.4	Low-Emitting Materials, Composite Wood & Agrifiber Products Reduce the amount of contaminants inside the building that are odorous, irritating and/or harmful to the comfort and wellbeing of installers and occupants.	1
C	Credit 4.5	Low-Emitting Materials-Systems Furniture and Seating Reduce the amount of contaminants inside the building that are odorous, irritating and/or harmful to the comfort and wellbeing of installers and occupants.	1
D	Credit 5	Indoor Chemical & Pollutant Source Control Minimise the exposure of occupants to particulate matter and potentially hazardous chemical pollutants.	1
D	Credit 6.1	Controllability of Systems, Lighting Provide a high level of control of lighting systems for individual occupants or groups in collective spaces (for example classrooms and conference halls) and promote their productivity, comfort and wellbeing.	1
D	Credit 6.2	Controllability of Systems, Thermal Comfort Guarantee individuals and groups of users occupying collective spaces (for example classrooms, conference halls, etc.) a high level of control of the thermal parameters of systems in order to ensure the comfort, wellbeing and productivity of the building's occupants.	1
D	Credit 7.1	Thermal Comfort, Design Create comfortable thermal conditions that promote the wellbeing and productivity of the building's occupants.	1
D	Credit 7.2	Thermal Comfort, Verification Create comfortable thermal conditions that promote the wellbeing and productivity of the building's occupants.	1
D	Credit 8.1	Daylight & Views, Daylight 75% of Spaces In continuously occupied areas, ensure the building's occupants have direct contact with the outdoor environment through the natural lighting of spaces and a suitable visual perception of the exterior.	1
D	Credit 8.2	Daylight & Views, Views for 90% of Spaces	1

D: Design

C: Construction

D/C		Thematic Area	Points
		In continuously occupied areas, ensure the building's occupants have direct contact with the outdoor environment through the natural lighting of spaces and a suitable visual perception of the exterior	
	ID	Innovation & Design Process	6 Points
D	Credit 1	Innovation or Exemplary Performance: Provide Specific Title Allow project groups and projects to earn points for exemplary performance characteristics with respect to those set out by the LEED® per Nuove Costruzioni classification system, and also innovative characteristics not specifically included in LEED® categories.	From 1 to 5
C	Credit 2	LEED® Accredited Professional Support and promote the design integrations requested by LEED® to encourage application and certification.	1
	RP	Regional Priority	4 Points
	Credit 1	Regional Priority	From 1 to 4
	Total score		110 Points

2. Company Details



AGAPE S.r.l.

Stabilimento

Via Alberto Pitentino, 6
46037 Governolo
Roncoferraro - Mantova

Sede Legale

Via Po Barna, 69
46031 Correggio Micheli
Bagnolo San Vito - Mantova

3. Description of company business

Innovation, research, coherence, technologically advanced materials and flexible proposals, these are the keywords that have defined the Agape company philosophy since its foundation back in 1973.

A philosophy based on a project able to enhance the comfort and visual appeal of bathrooms by revising otherwise consolidated models.

Agape has invested research and technical resources into a project that has enjoyed the contribution of key actors in the international design scene, including Marco Ferreri, Konstantin Grcic, Claudio La Viola, Enzo Mari, Angelo Mangiarotti, Giuseppe Psaquali and Patricia Urquiola, as well as renowned designers such as Fabio Bortolani, Alessandro Farnetti, Giulio Gianurco, Ermanno Righi, Maurizio Negri, Carlo Tinti, Borin/Gibertini/Vittori, Marco Zito, but above all Giampaolo Benedini, one of the company's founders. His contribution to Agape as a designer, where for a long period of time he was also art director, today also involves his wife and daughter Camilla, with whom he founded Benedini Associati in 1999.

The variety characterising the catalogue explains why Agape is considered a benchmark company in its sector, able to satisfy a broad range of needs. All elements, accessories and programmes constitute a complete system based on design principles driven by the most advanced aesthetic, functional and technological research.

With more than 70% of the company's turnover generated by exports to

more than 40 different countries, Agape boasts an international market presence thanks to its selective distribution, with more than 700 clients in Italy and worldwide. Regular and widespread participation in the most important worldwide industry trade fairs.

Eight monobrand stores in major cities including Mantua, Bologna, Turin, Munich, Berlin, Tokyo, Montreux, Porto.

All showrooms are designed not only as exhibition spaces, but also to provide design services dedicated to the client. The decision to spread its roots throughout the Mantuan territory is what determined the relocation of the company's headquarters to Correggio Micheli in 2001, inside the Mincio park. The buildings, surrounded by greenery, are utilised for training, design, research and management purposes.

Agape production quality is guaranteed not only by ISO 9001 certification, but also by numerous awards including the "Design Plus" prize and selections for the Compasso D'Oro ADI prize.

4. Description of AGAPE S.r.l. products

AGAPE S.r.l. products are divided into various categories:

- Washbasins
- Faucets
- Bathtubs
- Showers
- Storage cabinets
- Mirrors
- Accessories
- Furnishings
- Tops
- Bathroom fixtures

5. LEED®

Nuove Costruzioni e Ristrutturazione, v.2009, and LEED® for New Construction & Major Renovation, v.2009 credits to which AGAPE products may contribute

The following table describes the aims of the prerequisites or credits to which products may contribute, highlighting the characteristics that satisfy the requirements, and any data that must be provided by AGAPE to the designers and companies it supplies.

The following credits and respective requirements are valid for both the LEED Italia standard and the LEED New Construction & Major Renovation standard.

WE p1 – WATER USE REDUCTION

Mandatory prerequisite to obtain certification. The prerequisite requires the implementation of strategies, which guarantee an overall water saving of 20% with respect to the reference value calculated for the building being certified (excluding irrigation).

Requirements satisfied by product	Flow restrictors can be applied to AGAPE faucets to reduce the flow to 8.5 litres/minute, thus reaching the maximum flow determined by the US Environmental Protection Agency (EPA). AGAPE shower faucets can similarly be fitted with a flow restrictor that allows a consumption of 9.5 l/min (for residential showers), which is the maximum limit for compliance with the EPA directive.
Faucet flow in l/min	Declare the litres per minute that the faucet is able to distribute.
Documentation (technical data sheets, etc.)	Provide technical data sheets of faucets and flow restrictors.

WE c3 – WATER USE REDUCTION

Credit that gives the building a score between 2 and 4 points

This credit requires the implementation of strategies, which guarantee an additional water saving with respect to the prerequisite, based on the reference value calculated for the building being certified (excluding irrigation). The minimum water saving percentages for the building are: 30% to earn 2 points, 35% to earn 3 points, 40% to earn 4 points.

Requirements satisfied by product	Flow restrictors can be applied to AGAPE faucets to reduce the flow to 8.5 litres/min, thus reaching the maximum flow determined by the US Environmental Protection Agency (EPA). AGAPE shower faucets can similarly be fitted with a flow restrictor that allows a consumption of 9.5 l/min (for residential showers), which is the maximum limit for compliance with the EPA directive.
Faucet flow in l/min	Declare the litres per minute that the faucet is able to distribute.
Documentation (technical data sheets, etc.)	Provide technical data sheets of faucets and flow restrictors.

Commercial equipment, accessories and applications**Reference values**

Commercial toilets	6.0 litres per flush *
Commercial urinals	4.0 litres per cycle
Commercial washbasin faucets (hospital rooms)	8.5 litres per minute at 4 bar for private applications (such as hotels, motels, hospital rooms)
	2.0 litres at 4 bar for all non-private uses
	1 litre per cycle for timed faucets
Pre-rinse spray faucets (application for food products)	Flow Rate ≤ 6.0 litres per minute (no pressure specified; no requisites)

**Residential equipment, accessories and residential toilets
6.0 litres per flush *****Reference values**

Residential toilets	6.0 litres per flush *
Residential washbasin faucets	
Residential kitchen faucets	8.5 litres per minute at 4 bar
Residential shower	9.5 litres per minute at 5 bar**

* Value adapted based on standard values set out by EPAAct 1992 for commercial and residential bathroom fixtures.

** Operating principle of residential (box) shower, in homes: the total allowable flow rate of all the following shower systems per time unit, including rain, waterfall, bodyspray and jet systems, must not exceed the allowable shower flow rate, with a shower floor surface of less than 1.6 square metres. For each increment of 1.6 square metres of surface area, or part thereof, an additional shower is allowed with a total allowable flow rate of all devices equal to or less than the allowable flow rate stated above. Exception: For showers that use non-potable recycled water from inside the shower, during use the maximum limit can be exceeded provided the total potable water flow does not exceed the maximum allowed flow rate.

MR c2 - CONSTRUCTION WASTE MANAGEMENT

Credit that gives the building a score between 1 and 2 points depending on whether 50% or 75% of the non-hazardous waste generated by construction and demolition activities is recycled or recovered. Divert waste generated by construction and demolition activities from dumping grounds or incinerators.

Re-insert recyclables back into the production process and redirect reusable materials to dedicated collection sites.

Requirements satisfied by product

For packaging, AGAPE uses recyclable cardboard (also for protections), wooden pallets, which if expressly requested, can be reused.

This means AGAPE is able to assist the company responsible for earning this credit to effectively obtain it for the building.

General description of each type/category of waste material produced

List and describe the recyclable materials used for packaging (e.g. pallets, cardboard, etc.)

Quantity of deviated material divided into categories, in tonnes or cubic metres

Indicate the quantity of deviated material divided into categories.

Documentation (waybill, etc.)

Provide a waybill indicating the type of material used.

MR c5 REGIONAL MATERIALS (EXTRACTED, PROCESSED AND PRODUCED AT A LIMITED DISTANCE)

Credit that gives the building a score between 1 and 2 points depending on whether the materials extracted, processed and produced at a limited distance equate to 10% or 20% of the total building materials.

Materials are considered regional if they have been extracted, processed and produced within a 350 km radius from the project if the material is transported by road, or 1050 km if the material is transported by rail or sea. Mechanical, electrical and plumbing components are not considered for this credit.

Requirements satisfied by product	Agape products can potentially contribute to the credit, depending on the location of the site to which the products are supplied.
Extraction zone (Post Code)	Indicate the extraction zone, specifying the post code.
Transformation zone (Post Code)	Indicate the transformation zone, specifying the post code.
Manufacturing / processing zone (Post Code)	Indicate the manufacturing / processing zone, specifying the post code.
Documentation (certification, etc.)	Manufacturer's letter.

MR c6 – RAPIDLY RENEWABLE MATERIALS

Credit that gives the building 1 point.

The credit is allocated if the building demonstrates that it uses at least 2.5% (in cost) of products (including furniture) that contain rapidly renewable materials, i.e., plant-based materials with a life cycle of less than 10 years.

Requirements satisfied by product	Certain AGAPE products are made from a CRISTALPLANT® biobased material, the first eco-sustainable S Surface, made from plant-based resinous primary materials mixed with extremely pure natural inert materials, such as GMO Free corn, with a life cycle less than 10 years.
Documentation (certification, etc.)	Technical data sheet stating that 30% of the previously fossil-based resin has been replaced by plant-based polyesters derived from certified cultivations.

6. LEED® for Commercial Interiors, v. 2009, to which AGAPE products may contribute

WEp1 – WATER USE REDUCTION

Mandatory prerequisite to obtain certification.

The prerequisite requires the implementation of strategies, which guarantee an overall water saving of 20% with respect to the reference value calculated for the building being certified (excluding irrigation).

Requirements satisfied by product	Flow restrictors can be applied to AGAPE faucets to reduce the flow to 8.5 litres/minute (or 2.2 gpm), thus reaching the maximum flow determined by the US Environmental Protection Agency (EPA). AGAPE shower faucets can similarly be fitted with a flow restrictor that allows a consumption of 9.5 l/min (or 2.5 gpm), which is the maximum limit for compliance with the EPA directive (for residential showers).
Faucet flow in l/min	Declare the litres per minute that the faucet is able to distribute.
Documentation (technical data sheets, etc.)	Provide technical data sheets of faucets and flow restrictors.

WEc1 – WATER USE REDUCTION

Credit that gives the building a score between 6 and 11 points

This credit requires the implementation of strategies, which guarantee an additional water saving with respect to the prerequisite, based on the reference value calculated for the building being certified (excluding irrigation). The minimum water saving percentages for the building are: 30% to earn 6 points, 35% to earn 8 points, 40% to earn 11 points.

Requirements satisfied by product	Flow restrictors can be applied to AGAPE faucets to reduce the flow to 8.5 litres/minute (or 2.2 gpm), thus reaching the maximum flow determined by the US Environmental Protection Agency (EPA). AGAPE shower faucets can similarly be fitted with a flow restrictor that allows a consumption of 9.5 l/min (or 2.5 gpm), which is the maximum limit for compliance with the EPA directive (for residential showers).
Faucet flow in l/min	Declare the litres per minute that the faucet is able to distribute.
Documentation (technical data sheets, etc.)	Provide technical data sheets of faucets and flow restrictors.

Table Reference for prerequisite 1 and credit 1 - Water use reduction

Commercial Fixtures, Fitting, and Appliances	Current Baseline
Commercial toilets	1.6 gallons per flush (gpf)* Except blow-out fixtures: 3.5 (gpf)
Commercial urinals	1.0 (gpf)
Commercial lavatory (restroom) faucets	2.2 gallons per minute (gpm) at 60 pounds per square inch (psi), private applications only (hotel or motel guest rooms, hospital patient rooms) 0.5 (gpm) at 60 (psi)** all others except private applications 0.25 gallons per cycle for metering faucets
Commercial prerinse spray valves (for food service applications)	Flow rate \leq 1.6 (gpm) (no pressure specified; no performance requirement)

Residential Fixtures, Fitting, and Appliances	Current Baseline
Residential toilets	1.6 (gpm) ***
Residential lavatory (bathroom) faucets	2.2 (gpm) at 60 psi
Residential kitchen faucet	
Residential showerheads	2.5 (gpm) at 80 (psi) per shower stall****

* EPAAct 1992 standard for toilets applies to both commercial and residential models.

**In addition to EPAAct requirements, the American society of Mechanical Engineers standard for public lavatory faucets is 0.5 gpm at 60 psi (ASME A112.18.1-2005). This maximum has been incorporated into the national Uniform Plumbing code and the international Plumbing code.

*** EPAAct 1992 standard for toilets applies to both commercial and residential models.

**** Residential shower compartment (stall) in dwelling units: The total allowable flow rate from all flowing showerheads at any given time, including rain systems, waterfalls, bodysprays, bodyspas and jets, must be limited to the allowable showerhead flow rate as specified above (2.5 gpm) per shower compartment, where the floor area of the shower, compartment is less than 2,500 square inches. For each increment of 2,500 square inches of floor area thereafter or part thereof, an additional showerhead with total

allowable flow rate from all flowing devices equal to or less than the allowable flow rate as specified above must be allowed. Exception: Showers that emit recirculated nonpotable water originating from within the shower compartment while operating area allowed to exceed the maximum as long as the total potable water flow does not exceed the flow rate as specified above.

MR c2 – CONSTRUCTION WASTE MANAGEMENT

Credit that gives the building a score between 1 and 2 points depending on whether 50% or 75% of the non-hazardous waste generated by construction and demolition activities is recycled or recovered.

Divert waste generated by construction and demolition activities from dumping grounds or incinerators. Re-insert recyclables back into the production process and redirect reusable materials to dedicated collection sites.

Requirements satisfied by product.

For packaging, AGAPE uses recyclable cardboard (also for protections), wooden pallets, which if expressly requested, can be reused.

This means AGAPE is able to assist the company responsible for earning this credit to effectively obtain it for the building.

General description of each type/category of waste material produced.

List and describe the recyclable materials used for packaging (e.g. pallets, cardboard, etc.)

Quantity of deviated material divided into categories, in tonnes or cubic metres.

The construction company must collect the quantity of deviated material and divide it by category.

Documentation (waybill, etc.)

Provide a waybill indicating the type of material used.

MR c5 – REGIONAL MATERIALS

Credit that gives the building a score between 1 and 2 points depending on whether option 1 or option 2 is satisfied.

Option 1 (1 point) is satisfied if at least 20% of the total construction waste and furniture products and materials are produced* within a 500 mile radius of the work-site.

To obtain 2 points (option 2), in addition to satisfying option 1, at least 10% of the total construction waste and furniture products and materials must be extracted, collected and recovered, and produced* within a 500 mile radius of the work-site.

* The term “produced” implies the final place of assembly of the components.

Requirements satisfied by product	Agape products can potentially contribute to the credit, depending on the location of the site to which the products are supplied.
Extraction zone (Post Code)	Indicate the extraction zone, specifying the post code.
Collection or recovery zone (Post Code)	Indicate the collection or recovery zone, specifying the post code.
Production zone (Post Code)	Indicate the production zone, specifying the post code.
Documentation (certification, etc.)	Manufacturer’s letter

MR c6 – RAPIDLY RENEWABLE MATERIALS

Credit that gives the building 1 point.

The credit is allocated if the building demonstrates that it uses at least 5% (in cost) of products (including furniture) that contain rapidly renewable materials, i.e., plant-based materials with a life cycle of less than 10 years.

Requirements satisfied by product	Certain AGAPE products are made from a CRISTALPLANT® biobased material, the first eco-sustainable S Surface, made from plant-based resinous primary materials mixed with extremely pure natural inert materials.
Documentation (certification, etc.)	Certification stating that 30% of the previously fossil-based resin has been replaced by plant-based polyesters derived from certified cultivations.

7. Synoptic table of credits to which analysed products may contribute.

PRODUCT FAMILY	PRODUCT	PRODUCT	Credits to which product may contribute
WASHBASINS	BLOCK	Cristalplant®	MRc2, MRc5, MRc6 MRc2 , MRc5 , MRc6
	BUCATINI_washbasin	ceramics	MRc2, MRc5 MRc2 , MRc5
	BUCATINI_towel holder	PVC/ stainless steel	MRc2, MRc5 MRc2 , MRc5
	CARRARA_washbasin	marble	MRc2, MRc5 MRc2 , MRc5
	CARRARA_structure	stainless steel	MRc2, MRc5 MRc2 , MRc5
	CHEESE	ceramics	MRc2, MRc5 MRc2 , MRc5
	CUBE	birch plywood	MRc2, MRc5 MRc2 , MRc5
		painting and assembly	MRc2, MRc5 MRc2 , MRc5
	DESK	exmar	MRc2, MRc5 MRc2 , MRc5
	FLAT80	Cristalplant®	MRc2, MRc5, MRc6, MRc2 , MRc5 , MRc6
	FLAT100	Cristalplant®	MRc2, MRc5, MRc6, MRc2 , MRc5 , MRc6
	LITO 1,2,3	marble	MRc2, MRc5 MRc2 , MRc5
	OTTOCENTO_XL_washbasin	Cristalplant®	MRc2, MRc5, MRc6, MRc2 , MRc5 , MRc6
	OTTOCENTO_XL_structure	birch plywood	MRc2, MRc5 MRc2 , MRc5
	OTTOCENTO_washbasin	Cristalplant®	MRc2, MRc5, MRc6, MRc2 , MRc5 , MRc6

Credits that refer to LEED for New Construction & Major Renovation standard

Credits that refer to LEED for Commercial Interiors standard

PRODUCT FAMILY	PRODUCT	PRODUCT	Credits to which product may contribute
	OTTOCENTO_structure	stainless steel	MRc2, MRc5 MRc2, MRc5
	OTTOCENTO 001	Cristalplant®	MRc2, MRc5, MRc6 MRc2, MRc5, MRc6
	OTTOCENTO 002	Cristalplant®	MRc2, MRc5, MRc6 MRc2, MRc5, MRc6
	IN-OUT_washbasins	exmar	MRc2, MRc5 MRc2, MRc5
	DEEP_washbasin	Cristalplant®	MRc2, MRc5, MRc6, MRc2, MRc5, MRc6
	SPOON_washbasin	Cristalplant®	MRc2, MRc5, MRc6, MRc2, MRc5, MRc6
	SPOON XL_washbasin	Cristalplant®	MRc2, MRc5, MRc6, MRc2, MRc5, MRc6
	NORMAL_washbasin	Cristalplant®	MRc2, MRc5, MRc6, MRc2, MRc5, MRc6
	LAV001_washbasin	crystal	MRc2, MRc5 MRc2, MRc5
	LAV001_support	stainless steel	MRc2, MRc5 MRc2, MRc5
	PEAR_washbasin	ceramics	MRc2, MRc5 MRc2, MRc5
	PEAR C_column washbasin	Cristalplant®	MRc2, MRc5, MRc6, MRc2, MRc5, MRc6
	PEROTEL_washbasin	Cristalplant®	MRc2, MRc5, MRc6, MRc2, MRc5, MRc6
	PEROTEL __towel holder	chromed brass	MRc2, MRc5 MRc2, MRc5

PRODUCT FAMILY	PRODUCT	PRODUCT	Credits to which product may contribute
	ROTO	polyethylene	MRc2, MRc5 MRc2, MRc5
	VICEVERSA _washbasin	Cristalplant®	MRc2, MRc5, MRc6, MRc2, MRc5, MRc6
	WOODLINE (CER760)	birch plywood	MRc2, MRc5 MRc2, MRc5
		painting and assembly	MRc2, MRc5 MRc2, MRc5
	CER750C	ceramics	MRc2, MRc5 MRc2, MRc5
	CER660	ceramics	MRc2, MRc5 MRc2, MRc5
	CER750	ceramics	MRc2, MRc5 MRc2, MRc5
	PEAR I _built-in washbasin	Cristalplant®	MRc2, MRc5, MRc6, MRc2, MRc5, MRc6
	HANDWASH	Cristalplant®	MRc2, MRc5, MRc6, MRc2, MRc5, MRc6
	NOVECENTO _washbasin	Cristalplant®	MRc2, MRc5, MRc6, MRc2, MRc5, MRc6
	NOVECENTO _towel holder	stainless steel	MRc2, MRc5 MRc2, MRc5
TAPS	FEZ	chromed brass	GAp1, GAc3, MRc2, MRc5 MRc2, MRc5
	KA	silicone	GAp1, GAc3, MRc2, MRc5 WEp1, WEc1, MRc2, MRc5

Credits that refer to LEED for New Construction & Major Renovation standard
Credits that refer to LEED for Commercial Interiors standard

PRODUCT FAMILY	PRODUCT	PRODUCT	Credits to which product may contribute
	SEN	anodised aluminium	GAp1, GAc3, MRc2, MRc5 WEp1, WEc1, MRc2, MRc5
	SQUARE	stainless steel	GAp1, GAc3, MRc2, MRc5 WEp1, WEc1, MRc2, MRc5
	MEMORY	chromed brass	GAp1, GAc3, MRc2, MRc5 WEp1, WEc1, MRc2, MRc5
	SUITE	chromed brass	GAp1, GAc3, MRc2, MRc5 WEp1, WEc1, MRc2, MRc5
BATHTUBES	CARTESIO	Cristalplant® MDF	MRc2, MRc5, MRc6, MRc2, MRc5, MRc6 MRc2, MRc5 MRc2, MRc5
	DEEP_bathtub	Cristalplant®	MRc2, MRc5, MRc6, MRc2, MRc5, MRc6
	IN-OUT_bathtub	exmar	MRc2, MRc5 MRc2, MRc5
	NORMAL_bathtub	Cristalplant®	MRc2, MRc5, MRc6, MRc2, MRc5, MRc6
	PEAR_bathtub	Cristalplant®	MRc2, MRc5, MRc6, MRc2, MRc5, MRc6
	PEAR CUT_bathtub	Cristalplant®	MRc2, MRc5, MRc6, MRc2, MRc5, MRc6
	PEAR CUT_support	steel Fe360	MRc2, MRc5 MRc2, MRc5
	SPOON_bathtub	Cristalplant®	MRc2, MRc5, MRc6, MRc2, MRc5, MRc6

Credits that refer to LEED for New Construction & Major Renovation standard

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PRODUCT FAMILY	PRODUCT	PRODUCT	Credits to which product may contribute
	SPOON XL_bathtub	Cristalplant®	MRc2, MRc5, MRc6, MRc2, MRc5, MRc6
	UFO_bathtub	steel	MRc2, MRc5, MRc2, MRc5
	UFO_poggiaschiene	Cristalplant®	MRc2, MRc5, MRc6, MRc2, MRc5, MRc6
	VICEVERSA_bathtub	Cristalplant®	MRc2, MRc5, MRc6, MRc2, MRc5, MRc6
	VIEQUES	stainless steel	MRc2, MRc5, MRc2, MRc5
	VIEQUES_backrest	teak	MRc2, MRc5, MRc2, MRc5
	VIEQUES_shelf	teak	MRc2, MRc5, MRc2, MRc5
	WOODLINE (VAS900)	birch plywood	MRc2, MRc5, MRc2, MRc5
		painting and assembly	MRc2, MRc5, MRc2, MRc5
	WOODLINE (VAS902)	birch plywood	MRc2, MRc5, MRc2, MRc5
		painting and assembly	MRc2, MRc5, MRc2, MRc5
	WOODLINE V (VAS909)	birch plywood	MRc2, MRc5, MRc2, MRc5
		painting and assembly	MRc2, MRc5, MRc2, MRc5
	NOVECENTO_bathtub	Cristalplant®	MRc2, MRc5, MRc6, MRc2, MRc5, MRc6
	NOVECENTO_towel holder	stainless steel	MRc2, MRc5, MRc2, MRc5
	OTTOCENTO_bathtub	Cristalplant®	MRc2, MRc5, MRc6, MRc2, MRc5, MRc6
SHOWERS	CHIOCCIOLA_shower tray	Cristalplant®	MRc2, MRc5, MRc6, MRc2, MRc5, MRc6

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PRODUCT FAMILY	PRODUCT	PRODUCT	Credits to which product may contribute	
CHIOCCIOLA	CHIOCCIOLA_shower tray	Pral	MRc2, MRc5 MRc2, MRc5	
	CHIOCCIOLA_profiles	Chromed brass	MRc2, MRc5 MRc2, MRc5	
	CHIOCCIOLA_accessories	stainless steel	MRc2, MRc5 MRc2, MRc5	
	COOPER	stainless steel	MRc2, MRc5 MRc2, MRc5	
	COOPER_curtain	linen	MRc2, MRc5 MRc2, MRc5	
	FLAT D_vetri	glass	MRc2, MRc5 MRc2, MRc5	
	FLAT D_profili	stainless steel	MRc2, MRc5 MRc2, MRc5	
	FLAT D_piatti	stainless steel	MRc2, MRc5 MRc2, MRc5	
	FLAT D_pedane legno	teak	MRc2, MRc5 MRc2, MRc5	
	FLAT D_pedane exmar	exmar	MRc2, MRc5 MRc2, MRc5	
	STORAGE UNITS	KONTE	MDF	MRc2, MRc5 MRc2, MRc5
		KONTE_metal base	stainless steel	MRc2, MRc5 MRc2, MRc5
		KONTE_basket	stainless steel	MRc2, MRc5 MRc2, MRc5
		OJC_storage unit	MDF	MRc2, MRc5 MRc2, MRc5
OJC_handle		Chromed brass	MRc2, MRc5 MRc2, MRc5	
PIVOT		MDF	MRc2, MRc5 MRc2, MRc5	
320		MDF	MRc2, MRc5 MRc2, MRc5	
320_door		acid-etched glass/ mirror	MRc2, MRc5 MRc2, MRc5	
320L		MDF	MRc2, MRc5 MRc2, MRc5	
320L_door		acid-etched glass/ mirror	MRc2, MRc5 MRc2, MRc5	

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PRODUCT FAMILY	PRODUCT	PRODUCT	Credits to which product may contribute
	JET_structure	mdf	MRc2, MRc5 MRc2, MRc5
	JET_mirror	mirror	MRc2, MRc5 MRc2, MRc5
	MOB026_casing	mdf	MRc2, MRc5 MRc2, MRc5
	MOB026_door	mirror	MRc2, MRc5 MRc2, MRc5
	MOB027_casing	mdf	MRc2, MRc5 MRc2, MRc5
	MOB027_door	mirror	MRc2, MRc5 MRc2, MRc5
	MOB027_partitions	stainless steel	MRc2, MRc5 MRc2, MRc5
MIRRORS	4X4	CASING aluminium	MRc2, MRc5 MRc2, MRc5
		DOOR mirror	MRc2, MRc5 MRc2, MRc5
	FUSILLI (SPE021L)_support	chromed brass	MRc2, MRc5 MRc2, MRc5 MRc2, MRc5
	FUSILLI(SPE021L)_mirror	mirror	MRc2, MRc5 MRc2, MRc5
	FUSILLI (SPE021P)_support	chromed brass	MRc2, MRc5 MRc2, MRc5 MRc2, MRc5
	FUSILLI (SPE021P)_base marble	marble	MRc2, MRc5 MRc2, MRc5
	FUSILLI (SPE021P)_mirror	mirror	MRc2, MRc5 MRc2, MRc5
	INSEGNA_mirrors	mirror	MRc2, MRc5 MRc2, MRc5
	INSEGNA_supports	chromed brass	MRc2, MRc5 MRc2, MRc5
	NARCISO_mirror	mirror	MRc2, MRc5 MRc2, MRc5
	NARCISO_chinges	stainless steel/ chromed brass	MRc2, MRc5 MRc2, MRc5

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PRODUCT FAMILY	PRODUCT	PRODUCT	Credits to which product may contribute
	NUDO	mirror	MRc2, MRc5 MRc2, MRc5
	PARABOLA_mirror	mirror	MRc2, MRc5 MRc2, MRc5
	PARABOLA_metallic parts	aluminium	MRc2, MRc5 MRc2, MRc5
		neon	MRc2, MRc5 MRc2, MRc5
	SLIM	mirror	MRc2, MRc5 MRc2, MRc5
		mdf	MRc2, MRc5 MRc2, MRc5
	SPAI	mirror	MRc2, MRc5 MRc2, MRc5
	SPIN	mirror	MRc2, MRc5 MRc2, MRc5
		mdf/solid	MRc2, MRc5 MRc2, MRc5
		chromed brass	MRc2, MRc5 MRc2, MRc5
ACCESSORIES	BUCATINI	ceramic	MRc2, MRc5 MRc2, MRc5
	cavo	pvc	MRc2, MRc5 MRc2, MRc5
	mirrors	mirrors	MRc2, MRc5 MRc2, MRc5
	parti metalliche	chromed brass	MRc2, MRc5 MRc2, MRc5
	CALVINO	ceramics	MRc2, MRc5 MRc2, MRc5
		stainless steel	MRc2, MRc5 MRc2, MRc5
	MACH	stainless steel	MRc2, MRc5 MRc2, MRc5
		pral	MRc2, MRc5 MRc2, MRc5
		glass	MRc2, MRc5 MRc2, MRc5
		mirror	MRc2, MRc5 MRc2, MRc5

Credits that refer to LEED for New Construction & Major Renovation standard
Credits that refer to LEED for Commercial Interiors standard

PRODUCT FAMILY	PRODUCT	PRODUCT	Credits to which product may contribute
		anodised aluminium	MRc2, MRc5 MRc2, MRc5
	"0"	stainless steel	MRc2, MRc5 MRc2, MRc5
		ceramics	MRc2, MRc5 MRc2, MRc5
	OLC	chromed brass	MRc2, MRc5 MRc2, MRc5
		glass	MRc2, MRc5 MRc2, MRc5
		plastic	MRc2, MRc5 MRc2, MRc5
	PORTO	steel	MRc2, MRc5 MRc2, MRc5
		Pral	MRc2, MRc5 MRc2, MRc5
	SEN	anodised aluminium	MRc2, MRc5 MRc2, MRc5
	369	stainless steel	MRc2, MRc5 MRc2, MRc5
		exmar	MRc2, MRc5 MRc2, MRc5
	MEMORY	stainless steel	MRc2, MRc5 MRc2, MRc5
		mirror	MRc2, MRc5 MRc2, MRc5
EXTRAS	BASKET	birch plywood	MRc2, MRc5 MRc2, MRc5
	MIDI BASKET	birch plywood	MRc2, MRc5 MRc2, MRc5
	MINI BASKET	birch plywood	MRc2, MRc5 MRc2, MRc5
	PIC-NIC	MDF	MRc2, MRc5 MRc2, MRc5
		leather	MRc2, MRc5 MRc2, MRc5
	RITZ	ceramics	MRc2, MRc5 MRc2, MRc5

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PRODUCT FAMILY	PRODUCT	PRODUCT	Credits to which product may contribute
		crystal	MRc2, MRc5
			MRc2, MRc5
	FLAT XL_splash-back panels	birch plywood	MRc2, MRc5
			MRc2, MRc5
	FLAT XL_benches	birch plywood	MRc2, MRc5
			MRc2, MRc5
EVO	Storage units_casing	mdf	MRc2, MRc5
			MRc2, MRc5
	front	mdf	MRc2, MRc5
			MRc2, MRc5
		exacril	MRc2, MRc5
			MRc2, MRc5
EVO	Countertop	birch plywood	MRc2, MRc5
			MRc2, MRc5
		exmar	MRc2, MRc5
			MRc2, MRc5
		Cristalplant®	MRc2, MRc5,
			MRc6, MRc2,
			MRc5, MRc6
SANITARY WARE	MEMORY (wc - bidet)	ceramics	MRc2, MRc5
			MRc2, MRc5
	PEAR 2 (wc - bidet)	ceramics	MRc2, MRc5
			MRc2, MRc5
	750 (wc - bidet)	ceramics	MRc2, MRc5
			MRc2, MRc5
	PEAR (wc - bidet)	ceramics	MRc2, MRc5
			MRc2, MRc5



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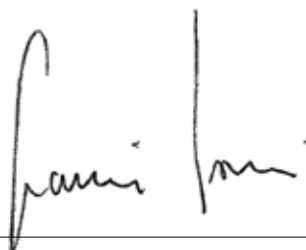
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