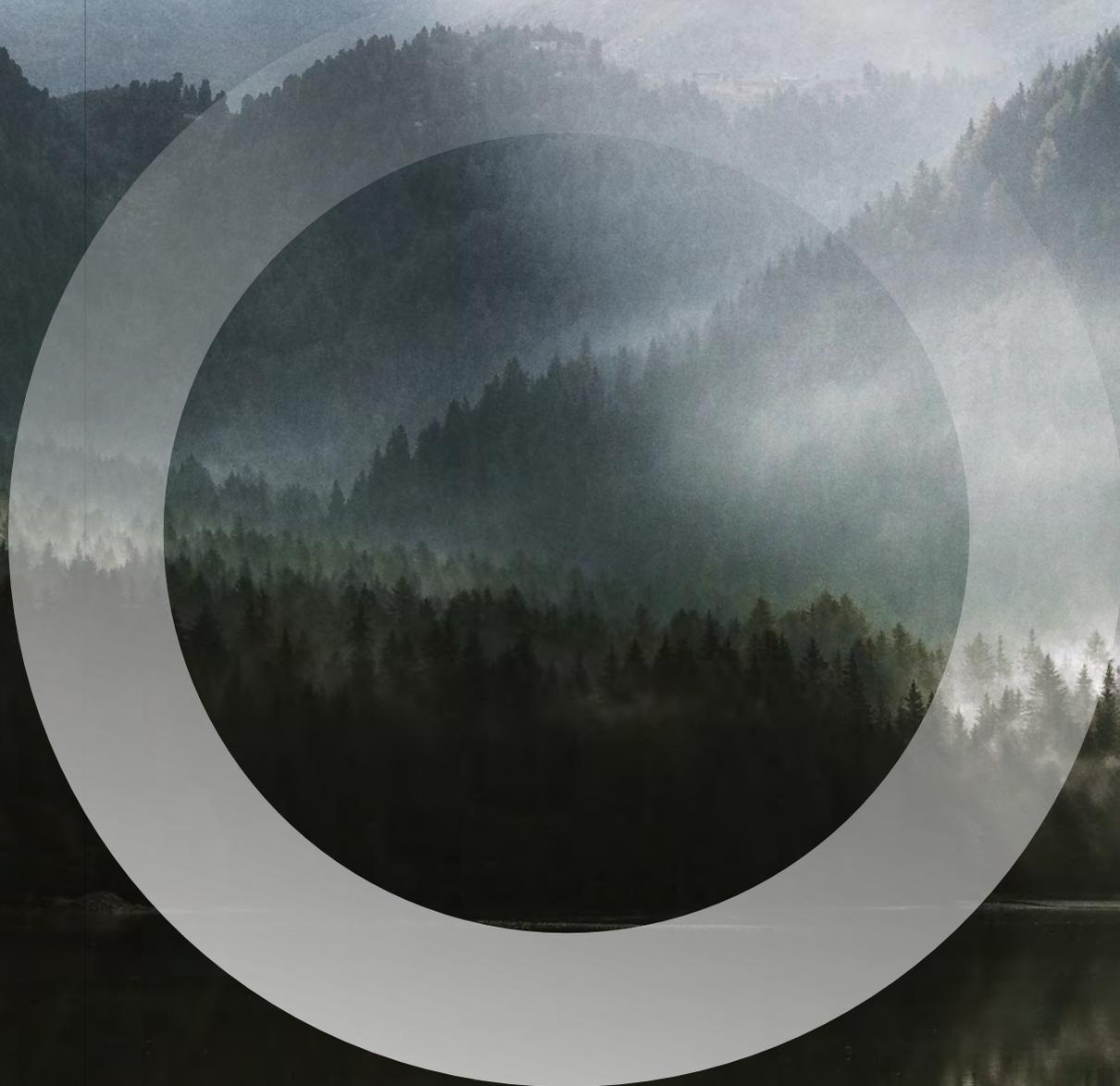


**B**





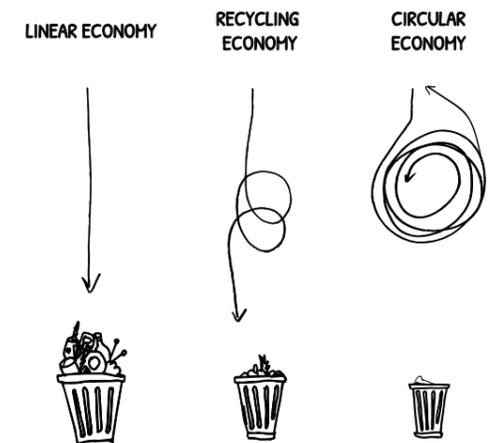
Circular construction —  
part of our DNA

Circular construction is the future of the construction sector.

As a sustainable company, Beddeleem aims to apply the principles of the circular economy as much as possible and to ensure the circularity of its products. Well thought-out use of materials is important in order to further reduce our environmental footprint.

Beddeleem always works to the client's specifications: whether for recycling or repair of products, new-build or complete circularity, we seek to think along with you.

Sustainability is deeply rooted in Beddeleem's DNA.



VLAANDEREN  
CIRCULAIR

Circular economy  
Waste becomes raw material

In a circular economy, numerous strategies are applied in order to continue to make the best possible use of materials and products in the economy. They are repaired, and have a high second-hand value, they are upgradable, can easily be disassembled and transformed into new products. The chosen materials are recycled or bio-based at the beginning of their lives and recyclable or biodegradable at the end of their lives. Waste becomes raw material.



# B

From the initial concept design of a product we take account of the after-use phase, extending the product's useful life. Important metrics for this include the use of material, the degree of adaptability and the process.

We strive not to have any waste at the end of a product's life cycle. Indeed, many of our products are completely or very largely reusable and as such have several lives.

The materials or products that cannot be reused in their existing state are either returned to nature or recycled and used once again as inputs to make new products.

## 3 types of circularity of Beddeleem products

### Reuse

= circular use: replacement with the same components

Beddeleem has been applying this for years: partitions are stored with the client and replaced. In our new facilities there will be a zone specifically dedicated to storing partitions and components.

### Remake Repair

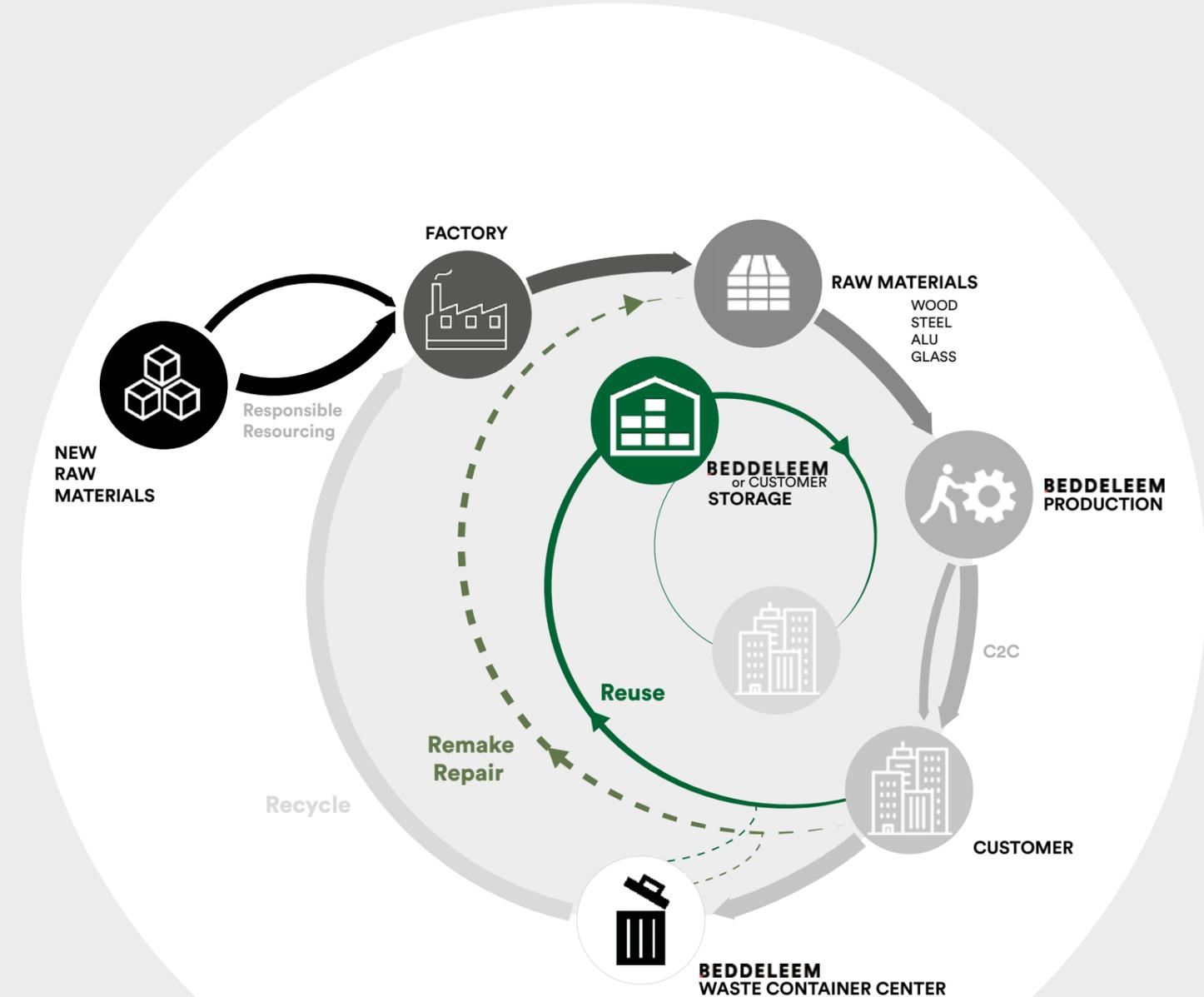
= reuse: reworking components into new components

Reworking recovered worktops into new...

### Recycle

= recycling, processing into new raw materials

The raw materials used in Beddeleem partitions (glass, aluminium, chipboard, steel, gypsum and rock wool) can be recycled after use to make a new equivalent product.



# Partitions

## a circular product

Apart from the Cradle to Cradle and Chain of Custody ranges of certified products, all our partitions are by definition ideally suited to be reused.

They are thus a 'circular product'.

The simple construction of our partitions and associated doors and windows make for easy assembly, disassembly and reuse, with no need for specialised material.

### — sustainable reuse

With a view to expanding this activity, an area for storage of recovered partitions has also been provided in our new logistics facility.

Some customers already work according to this principle : after dismantling, all reusable parts (panels, structure, insulation, etc.) are recovered as much as possible and stored in a central warehouse.

When the time comes for new refurbishment work, maximum use is made of recovered material, and only if necessary is it supplemented with new material.

With other customers, existing building materials are recovered as far as possible without storage (for example insulation and structures from dismantled partitions are reused in new partitions).



**CIRCULAR PURCHASING**

=

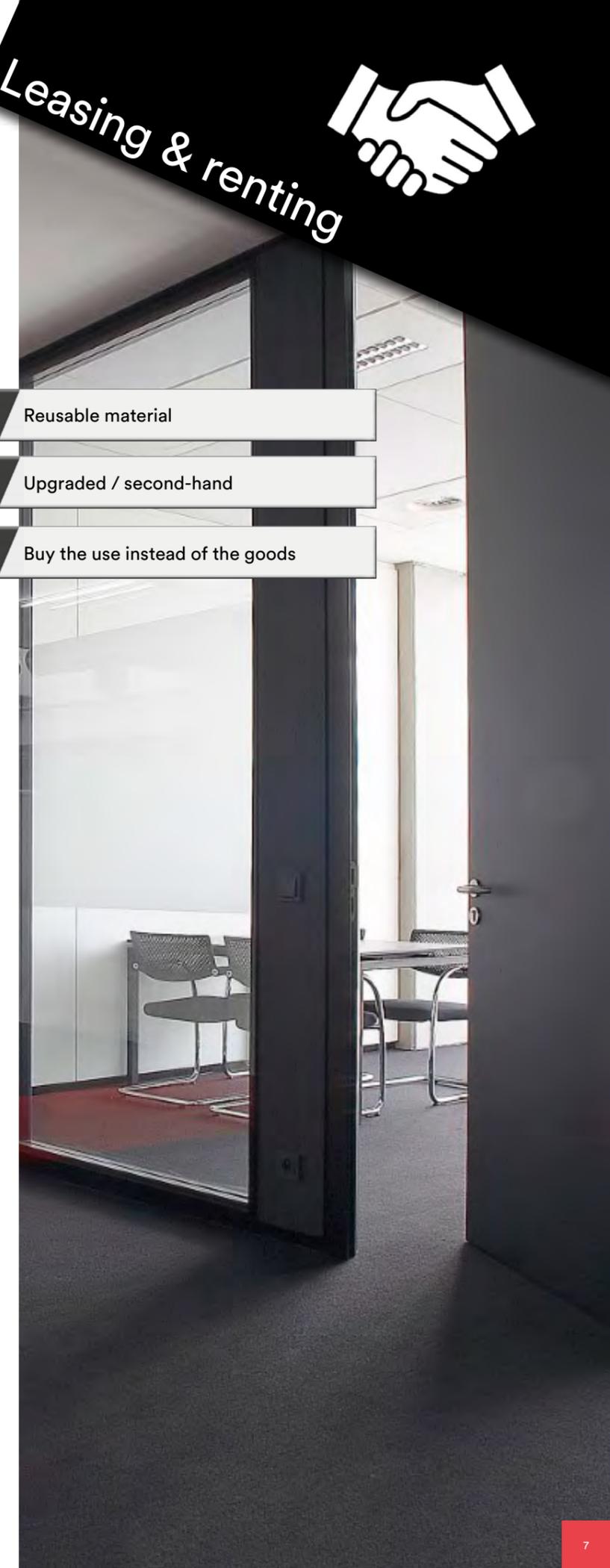
**SMART PURCHASING**

choose for :

-  Reusable material
-  Upgraded / second-hand
-  Buy the use instead of the goods

Contact us for more information

**“We analyse the renting & leasing possibilities using a project-based approach with our customer.”**



# Partitions

For the circular construction of partitions the following principles are important: reuse, recycling, upgradability, transformability, simplicity, freedom of design, material passports and circular business models.

**"Spatial organisation with dismantlable, reusable and recyclable elements"**



## CIRCULAR BUSINESS MODELS

Renting and leasing are possible. The most appropriate solution is analysed on a project basis with the customer.

With a view to expanding this offering, an area for storage of recovered partitions has also been provided in our new logistics facility.

## MATERIAL PASSPORTS

Much of the information concerning our products (the technical properties, useful life, maintenance, assembly and disassembly, etc.) is available online on our website or can simply be requested.

## FREEDOM OF DESIGN

All partitions have a high degree of freedom of design and can be combined with one another. The ceiling height is the only important limiting factor. Although the vertical adjustability of the skirting boards also offers the possibility of catering for limited differences in height.

## REUSE

When our partitions are dismantled and re-assembled, almost all the materials can be reused.

## RECYCLED CONTENT

- \_ Glazed partitions contain recycled raw materials : aluminium and glass
- \_ Full partitions with wood panels contain recycled raw materials : panels, rock wool and steel
- \_ Full partitions with metal panels contain recycled raw materials : steel, rock wool and gypsum

## UPGRADABLE

The materials of Beddeleem's partitions can be recycled after use to make a new equivalent product.

Most of the used basic raw materials such as glass, aluminium, chipboard, steel, gypsum and rock wool are sorted by Beddeleem if they are not reused. They are then processed externally into new raw materials.

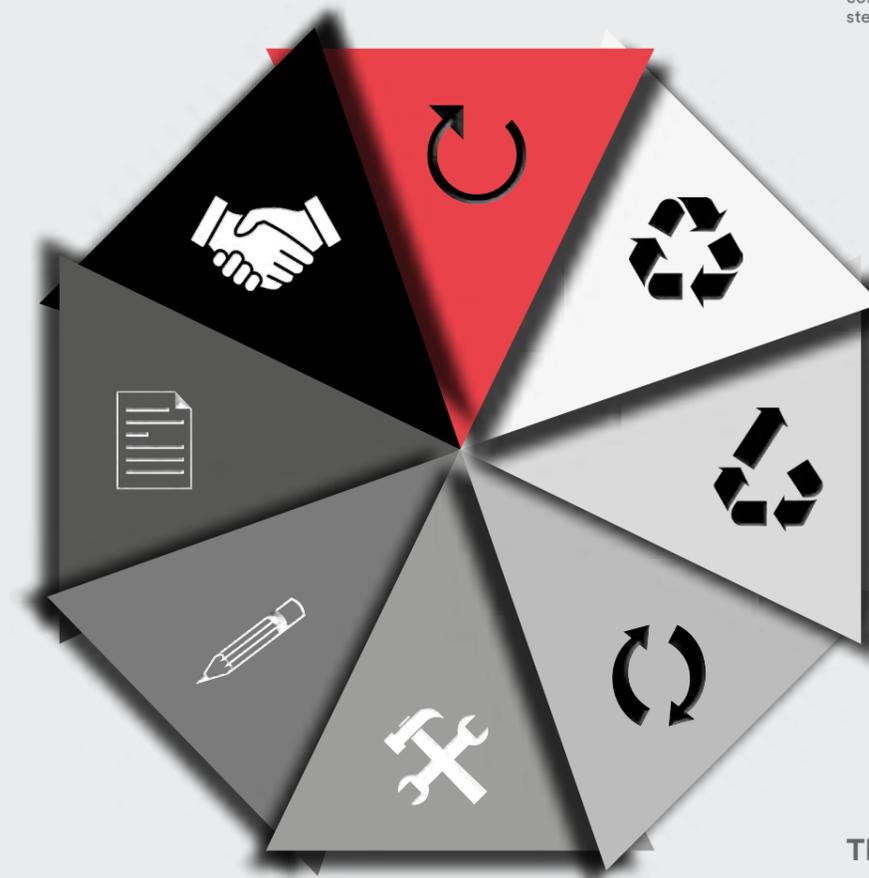
## TRANSFORMABLE

Reversible fastenings such as bolts, screws, click systems, etc. can be undone without causing damage to the components so that these can be reused in the future.

## SIMPLICITY

The JB partition system is simple to assemble and does not require any special tools. Only a suction cup is required for handling the glass partition panels.

Furthermore each partition system has a visual assembly guide. Upon request brief training can be given to external maintenance teams.



# Cradle to Cradle® Certified

## — a circular economy

During the design process of its products Beddeleem follows the 'Cradle to Cradle Certified TM Product Standard'.

Beddeleem already has various products under the Cradle to Cradle® banner and aims to have even more products certified in the future, both by adapting existing products and by taking account of the criteria when designing new products.

### BEDDELEEM CERTIFIED PRODUCTS

#### Glazed partitions

JB 4000  
JB PURE 50  
JB PURE 100  
JB FLUSH

#### Full partition

JB 2000 Metal



Cradle to Cradle® is based on the following 5 criteria, which also underpin the circular economy :

#### 01—Safe and sound use of material

Beddeleem strives to investigate and assess all raw materials of all products in terms of their impact on public health and the environment. Accordingly, safer and healthier options are sought wherever necessary.

#### 02— Reuse of materials

Beddeleem products are mostly made of glass, aluminium, steel and wood. These are recyclable and are designed in such a way that many of the components can be re-used again and again with the same quality level.

#### 03—Renewable energy

With a view to total self-sufficiency in electricity, Beddeleem generates sustainable energy by means of solar panels. The 30,000 m<sup>2</sup> roof on our factory in Nazareth has more than 5,500 solar panels, which equates to around 1.1 megawatts peak capacity. Around 50% of this is for own direct use and 50% is fed back to the grid.

In addition, we have concluded a contract with our energy supplier to purchase the remaining electricity, which we purchase, green. Together with the green electricity we generate ourselves, this means that we produce all our products using 100% green electricity. Carbon credits (VER credits) were also purchased to offset about 50% of our CO<sub>2</sub> emissions, due to the consumption of natural gas.

#### 04—Water management

Beddeleem uses water during the coating process and ensures that the water used is purified before being discharged back into the sewerage system.

#### 05—Social justice and business ethics

Beddeleem products are socially sustainable. Motivated and healthy employees are, after all, important to productivity and image.

Up to two extra points can be earned on LEED projects by using our partitions.

BREEAM: the use of C2C-products contributes to a better BREEAM score and thus enhances the value of the building in which they are used.

With BREEAM-NL projects too, extra points can be earned in the 'Building materials' and 'Responsible sourcing of materials' sections by using Cradle to Cradle® Certified products.



# Wood

## PEFC & FSC labels

In choosing FSC or PEFC certified products you make a conscious choice for responsible forest management. The only responsible choice!

Since January 2012 when purchasing the various timber products Beddeleem has given preference to Sustainably Exploited Timber.

By making optimal use of certified timber with the PEFC (PEFC/07-31-258) or FSC® (FSC-C116516) label, the consumer has the guarantee that the timber originates from responsibly managed forests and/or contributes to the responsible management of our forests.

### Chain of Custody

Chain of Custody: A reliable system of control of PEFC and FSC certified timber trade flows up to and including the end product.

The “Chain of Custody” starts with the sale of a “sustainable project” and encompasses the successive monitoring of the registrations, the purchasing of raw materials with a PEFC or FSC label, processing into finished materials and delivery shipside. Throughout this route the PEFC and FSC materials can be identified.

All Beddeleem employees are involved in this “Chain of Custody” and see to it that the chain is not broken in their respective areas.

The Beddeleem CoC certificate is the only guarantee for our customers that the timber trade flows are perfectly monitored and controlled from purchase.

“The only responsible choice!”



### PEFC label

PEFC (PEFC/07-31-258) is a label that guarantees to the consumer that the wood or paper originates from sustainably managed forests. PEFC, a non-governmental environmental organisation, stands for ‘Programme for the Endorsement of Forest Certification Schemes’. PEFC is a worldwide, non-profit, independent certification mark for the promotion of sustainable forest management. PEFC’s ultimate goal is for all the world’s forests to be managed sustainably, taking account of social, economic and environmental aspects.

The actions of PEFC Belgium are based on two complementary pillars : forest certification and certification of the chains of control of businesses in the forest-timber-paper chain :

- > the forestry standards of PEFC Belgium are intended to ensure respect for the economic, ecological and social functions of forests ;
- > the control chain rules offer the possibility of monitoring the flows and PEFC products within an organisation and from one company to another.

**Beddeleem** aims to limit the environmental impact of its activities, products and services to a minimum. One of the bases for this is the maximum use of timber from sustainably managed forests.

In order to achieve this, Beddeleem’s management undertakes to introduce a “PEFC Chain of Custody” management system in its Nazareth production facility. The management system is initially **applicable** to the **wooden panels of partitions and furniture made from sheet material**.

This management system will be systematically extended to other products.

*The PEFC certificate was issued on 21 May 2012.  
The certificate is valid until 20 May 2022.*



### FSC® label

An FSC® (FSC-C116516) label or claim on a wood or paper product guarantees that the product comes from responsibly managed forests and/or contributes to the responsible management of our forests. FSC®, a non-profit environmental organisation, stands for ‘FOREST STEWARDSHIP COUNCIL®’. The Forest Stewardship Council (FSC®) promotes ecologically suitable, socially correct and economically viable management of forests worldwide.

When timber and forest products leave an FSC® forest they are at the beginning of a path that is often long. After all, wood and paper products mostly pass through a number of different companies before reaching a customer as a final product. In order to give the customer the guarantee that the product is really an FSC® product, control is necessary along the entire length of the trade chain. This is done by means of the FSC® Chain of Custody certification.

When a link has been checked, the guarantee that it is an FSC® product remains in place. Only FSC® certified companies may pass this FSC® guarantee on to their customers. Once the chain is interrupted by a non-CoC certified link, the product officially loses its FSC® claim.

For this reason **Beddeleem’s** management undertakes to introduce an “FSC® Chain of Custody” management system in its Nazareth production facility. Initially the management system **applies** to the **wooden window and door modules and accessories in the total fit-out**.

This management system will be systematically extended to other products.

*The FSC® certificate was issued on 21 May 2013.  
The certificate is valid until 20 May 2023.*



Beddeleem introduced an environmental management system in 2011 in its Nazareth production facility in order to limit the environmental impact of its activities, products and services to a minimum.

The environmental management system applies to the design, development, production, sale and assembly of ceiling systems, partitions, raised floors, office furniture and related products in the total fit-out and in the provision of after-sales service.

## Environmental management system

**Beddeleem's environmental policy is based on the following pillars:**

- Maintenance of the ISO14001 environmental management system that was set up in 2011 and is specifically aimed at managing and improving environmental performance ;
- Compliance with applicable laws and regulations and management of environmental risks ;
- Striving for continuous improvement of our company's environmental performance ;
- Maximum sorting of the various waste flows with a view to recycling and reuse of materials ;
- Efficient use of raw materials, auxiliary materials and energy in the production processes ;
- Use of recycled aluminium in the production of our extrusion profiles, as a result of which CO<sub>2</sub> emissions are cut by five tons per ton of aluminium used.

*The current ISO14001 certificate is valid until 15 October 2023.*

**Beddeleem's 10 commitments on the environment and sustainability:**

- Striving for maximum protection of the environment ;
- Compliance with legal environmental requirements applying to the activities to be carried out ;
- Prevention of emissions to water, ground and air and limitation of the volume of waste as a result of the activities in the production facility ;
- Maximum sorting of the various waste flows with a view to recycling and reuse of materials ;
- Efficient use of raw materials, auxiliary materials and energy in the production processes ;
- Development of sustainable products, taking account of customer's requirements ;
- Optimal use of sustainably exploited timber and avoiding the use of timber from controversial sources ;
- Avoiding the use of volatile organic compounds in the production processes and in the materials used ;
- Sustainable generation of energy by means of own solar panels, with a view to maximum supply of own electricity needs ;
- Own purification of process water by means of a purification plant, with a view to minimum discharge of waste into the drainage or sewerage system.



## QUALITY

To achieve this, Beddeleem has implemented the **ISO 9001 quality management system**.

**Beddeleem's objectives translate into :**

### 01— IMAGE

The company and its personnel must radiate trust. There must be sufficient organisational and technical knowledge and experience.

### 02— QUALITY

Meeting the customer's requirements and needs. Good contacts and agreements with customers and a professional approach to competitive prices are its most important trump cards.

### 03— CUSTOMER SERVICE

Beddeleem seeks to emphasise service to customers:

- > timely delivery ;
- > early alerts if agreements cannot be adhered to as a result of circumstances beyond its control ;
- > guaranteeing optimal follow-up before, during and after works.

### 04— EXECUTION

- > flexible cooperation with all parties involved ;
- > thinking along with customers and making proposals before and during the works ;
- > permanent care for human capital.

### 05— SAFETY & ENVIRONMENT

Beddeleem aims to minimise the number of accidents and the environmental nuisance during the execution of the works for both its own personnel and third parties in the workplace.

On the basis of periodic internal and external audits, the real situation is tested against the objectives set and the points in the standards. If necessary, adjustments are made in the working and management groups.

*The quality management system applies to the design and development, production, sale and assembly of partitions, ceiling systems, office furniture and related products in the total fit-out. Sale and installation of raised floors. Provision of after-sales service.*

*The ISO9001 certificate was first issued on 21 August 2006 and is valid until 15 October 2023. Before that Beddeleem had been certified under ISO9002 since 1995.*

## Quality & safety



## SAFETY

In order to achieve this, Beddeleem Group introduced the **VCA safety management system** in 2000.

**The company's safety policy rests on the following key elements :**

### 01— Minimising risks to own staff and third parties in company buildings and on sites :

- > managing risks (inventory, evaluation) ;
- > ensuring good and regularly inspected facilities, machinery and work equipment ;
- > making available workable procedures.

### 02— Preventing personal injuries and material damage by :

- > ensuring maximum collective protection ;
- > dividing workstations and work zones efficiently and safely and marking them out where necessary ;
- > providing additional personal protective equipment.

### 03— Training own employees so that everyone can carry out their own work in a safe and healthy manner by :

- > providing specific safety training courses ;
- > permanent internal training, toolbox meetings, ...

### 04— Maintaining internal and external communication aimed at the continuous optimising of all health and safety aspects through :

- > further developing and formalising the administrative support system ;
- > providing consultations in order to regularly evaluate and discuss the health and safety risks and where necessary adopt preventive and corrective measures.

### 05— Striving for continuous improvement of safety performance by setting annual safety objectives and carrying out the global prevention plan and annual action plan. High level of commitment and awareness on the part of the employees when realising the safety objectives and minimising incidents and accidents.

*The safety management system applies to the installation of relocatable partitions, false ceiling systems and office furniture and the total fit-out and renovation of buildings.*

*The VCA certificate was first issued on 25 February 2000 and is valid until 20 August 2021.*

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