

Your architectural precast concrete solution







Architectural concrete

for all your realisations.

After more than 45 years, architectural concrete no longer holds any secrets for us. From our site in Mouscron (Belgium), we manage the **complete design, production** and **finishing** of this extremely high-quality concrete product. The aesthetic appearance and architectural individuality, combined with the structural performance and sustainable advantages, attract both Client and Architect.

As experts in architectural concrete, we work closely with you.

We offer **conceptual advice** during the design phase of your construction project and guarantee **professional supervision** during execution.

Because creativity and craftsmanship go hand in hand with us, we provide you with **bespoke solutions** that always give your architectural project a unique status.



CONCEPTUAL ADVICE



PROFESSIONAL SUPERVISION



BESPOKE SOLUTIONS





With respect for the environment.

Today, Decomo is one of the largest producers in Belgium of bespoke architectural precast concrete facades and other elements. We also play a pioneering role in terms of sustainability. Indeed, in order to mitigate the impact of our activities on the environment, we have been making significant efforts for quite some time.

Since 2011, our environmental policy has been supported by a certified environmental management system (ISO 14001:2015). It proves our ambition to want to be part of the solution in a circular world and to treat with respect, everything nature provides us with.

- What actions do we take to control our energy and water consumption?
- How does sustainable waste management limit our impact on the planet?
- What are we doing to reduce our CO₂ emissions?
- And how can we reduce our ecological footprint even further by being smart about raw materials and hazardous substances?

The answer can be found here



ENERGY





WASTE



AIR



RAW MATERIALS





Decomo is investing heavily in renewable **energy** sources.

LED lighting, more daylight in our workspaces and optimal insulation keeps our energy consumption to a minimum.

The 2 installations of our **solar panels** comprise of as many as 1,000 panels on the roof of our finishing hall and 294 panels on the roof of the concrete plant and already provide 30% of our total electricity needs.

In the most recent extension on the site (2016), concrete sandwich panels with a high insulation value were chosen. A first roof renovation was carried out in 2020, focusing on roof insulation and additional incidence of daylight in the studios (to save artificial light and electricity useage).







EXTRA ATTENTION FOR INSULATION

in new builds and renovations

2016

CONCRETE SANDWICH PANELS

2020

EXTRA ROOF INSULATION

+ additional incidence of daylight in the studios (to save artificial light and electricity)

INSULATION





Decomo developed a thorough water recovery system.



700,000

LITRES OF WATER COLLECTION /



- buffer tank under the parking various rainwater storage tanks
 - on the site

The production of architectural concrete requires a large amount of water, both during production and when finishing the concrete elements.

Therefore, we have developed a thorough water recovery system and are committed to treating industrial waste water.



MACHINE •

this reduces the amount of inert waste sand and gravel particles are reused in concretes



separation of sand and gravel particles



WATER COLLECTION AND TREATMENT **ENSURE THAT WE USE LESS THAN**

of fresh water per year instead of 26,000 m³



Since 2004, the polishing and finishing areas have been equipped with a water treatment plant to collect, treat and recycle wastewater and a plant to store some 310 m³ of rainwater. The latter, recycled water is used during the finishing process of architectural concrete.



Minimal water consumption through investment in water treatment and rain water harvesting.



Decomo commits to maximum recovery and recycling.

In our production and finishing workshops, we use materials efficiently. Thanks to sophisticated waste management, we keep waste streams as low as possible and strive for maximum recovery and recycling of residual products. To this end, we work in association with registered waste recycling companies.









POLISHING THE CONCRETE

SLUDGE IS COLLECTED IN CONTAINERS

COLLECTING & RECYCLING

after collection, the sludge is processed by an approved treatment centre and, if possible, reused in another industrial process



TEEL GRIT AND WOO

grit used to treat concrete surfaces is

RECYCLED UP TO 6X ·····

and then reused as a full <---blasting media





formwork wood is fully recovered



Decomo maintains a register of waste collected by approved organisations. Our aim is to sort as much as possible and reduce the amount of class 2 waste (mixed construction and demolition waste) that cannot be recycled.



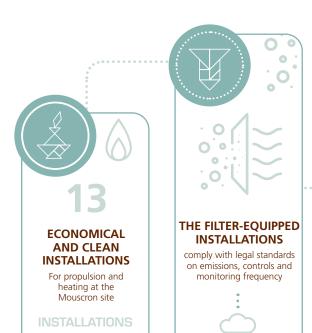
where waste is deposited by type



each container will have its own colour and annotation take-back of maximum waste 0 by authorized companies

Target waste recycling and reduce class 2 waste.





All dates of maintenance

and checks are tracked by the maintenance programme

follow-up ensured

Decomo is committed to achieving a **CO**₂ neutral future.

In our ambition to become a **carbon-neutral** company, we are not only committed to maximum reduction in energy use and water recovery, we are also researching into concrete products with lower CO₂ values.

We are also making efforts to reduce CO₂ emissions from our production installations to improve the **air quality** on our site.

All installations are equipped with **filters** and comply with legal standards on emissions, controls and frequency of controls.

The follow-up is ensured by a maintenance program that automatically notifys the dates of required planned preventative maintenance and controls (support access).



Filters on our plants keep emissions under control.



Decomo uses primary raw materials.

To produce architectural concrete, **we primarily use raw materials** such as aggregates, sand and FSC certified timber (for the formwork). In addition, we also process steel, cement and cement substitutes. Thanks to the **high quality of the raw materials** and efficient application (and logistics), we further enhance the sustainable character of our products.





cement substitutes

new cement types

CEMENT AND CO, EMISSION





32

ABOVE-GROUND SILOS

32 X 64 TON CAPACITY

Arranged in 2 rows, fully enclosed in the factory building.

therefore aggregates no longer need to be stored outdoors in concrete bunkers and transported by wheel loaders to the concrete plant

Aggregates are extracted from European quarries

and selected by colour to ensure the aesthetic qualities of architectural concrete

SAND AND

State-of-the-art concrete plant with an automatic weighing and dosing system reduces raw material losses.



Decomo manages hazardous materials correctly and safely.

The production and finishing of architectural concrete cannot be done without using hazardous substances.



are stored on a

LEAKBACK

that remains closed and is identified and labelled



hazardous waste is collected in specially provided

CONTAINERS

that comply with all regulations



These are fitted with a plastic bag to shield the products from the environment



COLLECTION

COMPANY

It goes without saying that when using them, we follow strict regulations and procedures to ensure the safety of our employees, prevent workplace calamities and minimize the impact on the environment.



legal **PRECAUTIONS**

CHEMICALS

are stored in retention tanks to prevent the risk of any products

from entering drainage systems

in case of spils,

SPILL KITS

are available

SAFETY DATA SHEETS

are centralized and

maintained. They are

are taken for the various depots



PREVENTION



All employees are trained in the use of any hazardous material.



Would you like more information on how our sustainability processes contribute to a circular world? Or would you like to be informed about new initiatives?

Contact us or visit:

UK-based: www.decomo.co.uk/environment-quality
Other countries: www.decomo.be/en/environment-quality.