

#01 2022

Welcome to the New Stone Age

Baking Truffle in Hell's Kitchen

A facade influenced by
the angle of the sun.

Launching our Brand-New Identity

Marking a new phase
for StoneCycling.

This is what a Milestone looks like!

Lowest carbon footprint
in the market.



**STONE[®]
CYCLING**

Welcome to the New Stone Age

No explanation is needed on why it is essential to completely change our approach to the way we build our structures and cities. The time to take action is now.

We're proud of the steps we've taken since starting StoneCycling almost ten years ago. Actions that were only possible because of our clients and partners throughout the value chain that have embraced our mission: the early adopters of the New Stone Age.

The first edition of our bi-annual publication marks the start of a new phase for StoneCycling. A new brand identity and website that are more tailored towards getting people hooked on our mission.

With the recent announcement of our collaboration with Biomason - by far the most exciting biotech company in the built environment - we're introducing a new innovative product: BioBasedTiles. Beautiful building materials made with Biomason's biocement® technology.

We're also introducing an updated product portfolio for our WasteBasedBricks and Slips. New colours, sizes, and possibilities for bespoke brick development continue to create exciting opportunities in brickwork.

Welcome to The New Stone Age!

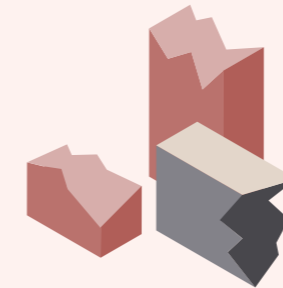
On behalf of team StoneCycling and all our partners,

Ward Massa
CEO



Moving towards
beautiful building
materials made
from 100%
upcycled waste
with a positive
carbon impact on
the planet.

Planet earth is running out of raw materials



Waste

Construction and demolition waste accounts for an estimated third of the overall waste generation in the EU. More than 850 million tonnes each year.

Raw materials

Each year, we dig up tonnes of raw materials to turn into the building products that make up our cities and infrastructure. Research shows that with the current pace of construction, about 50 billion (!) tonnes of basic raw materials such as sand and gravel are extracted from our planet, each year. We're not only running out of these materials, the extraction harms nature, destroys ecosystems and leads to coastal erosion.

Carbon emissions

11% of the world wide carbon emissions are related to the construction industry. Of those total emissions, the production of building materials is responsible for 90%.

The need for alternative resources and production methods is an ever more pressing necessity that creates huge opportunities for all stakeholders in the value chain.

Use cutting-edge new technologies to create new types of building materials



Use waste as a resource

At StoneCycling, we're on a path to creating building materials made from 100% waste. By utilizing waste as the primary ingredient for our products, we clean up some of the mess we are making.

Leave raw materials in the earth

By using waste as primary resource, we also require less or no raw materials. These can be left in the earth.

Eliminate carbon emissions

We develop our products in such a way that carbon emissions are increasingly reduced over time and eventually eliminated. But we will not stop here. Once we've eliminated carbon emissions during production, we aim to create materials that absorb CO2.

See our products up close?
Request a sample on our website.

The West
646 11th Avenue,
Manhattan, New York

Baking Truffle in Hell's Kitchen

Product

**WasteBasedBrick
Truffle**

Architect

Concrete

Clients

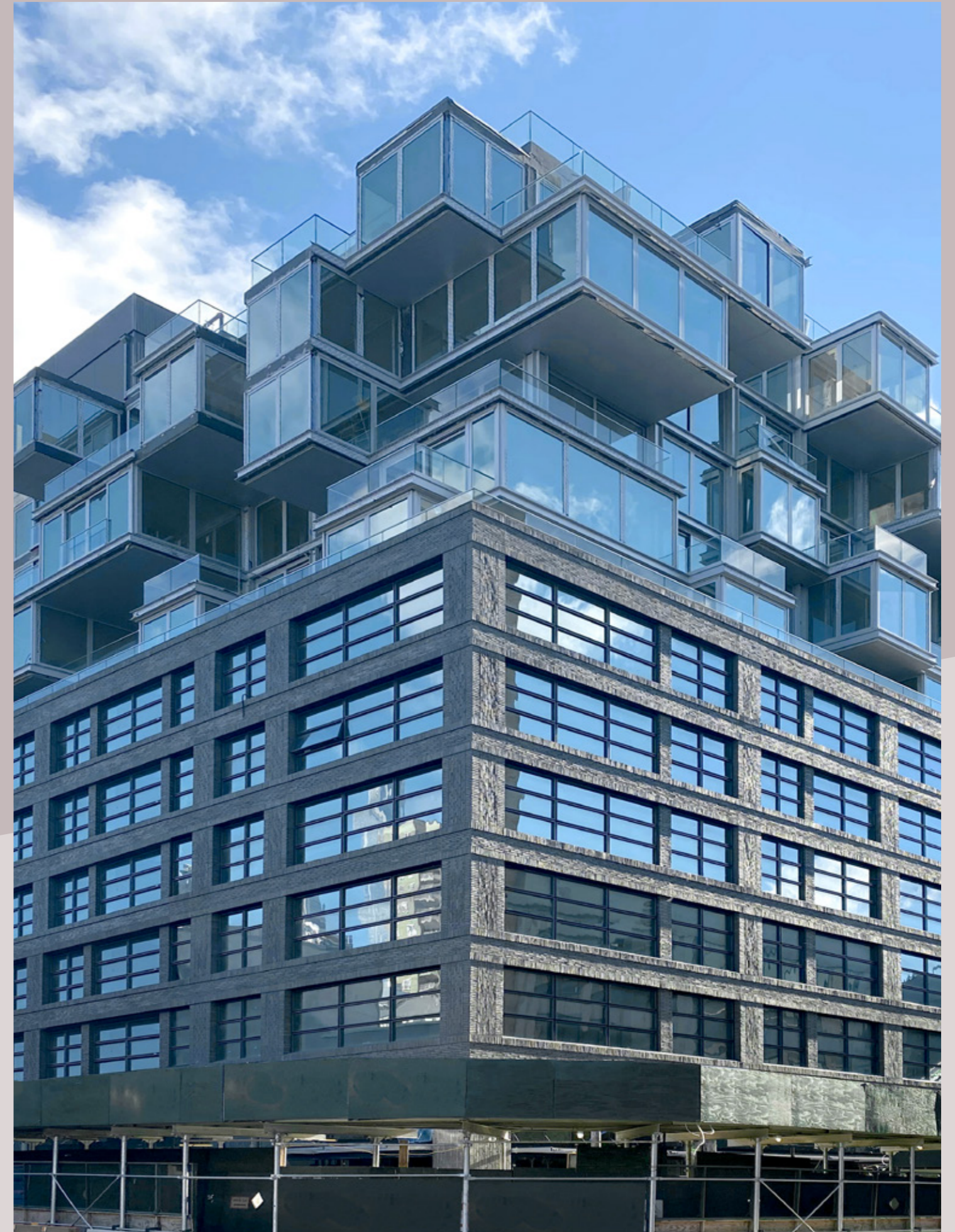
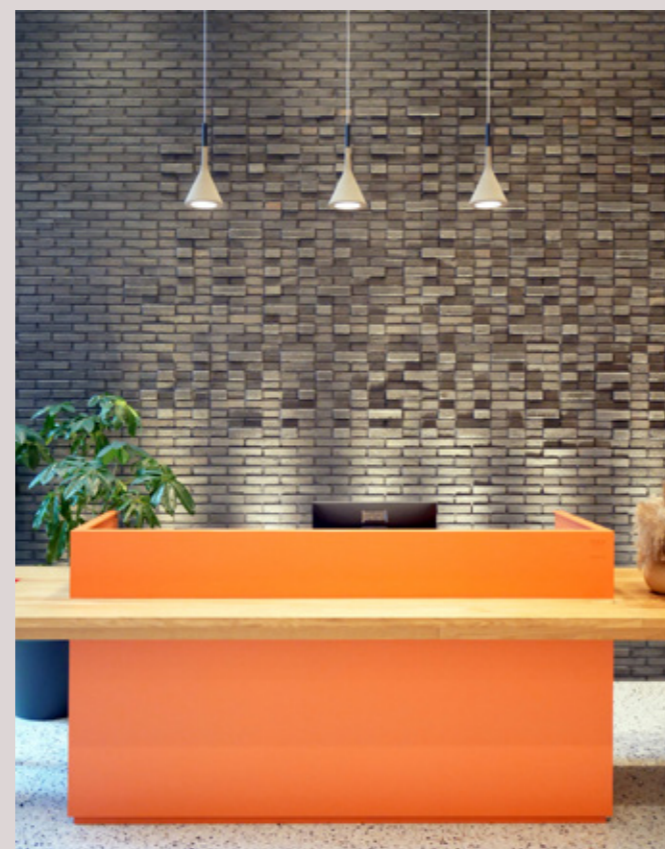
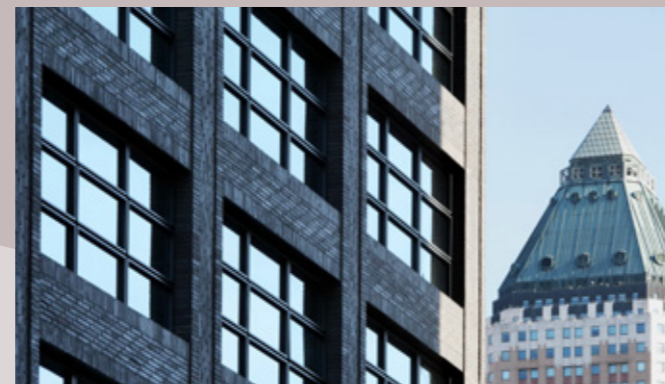
**SK Development
Ironstate**

Application

**Facade
Interior Wall Cladding**

Upcycled

261.890 KG



The West is an environmentally conscious hub of vibrant neighbourhood life in New York's Hell's Kitchen area. The condos, mixed with studios, 1, 2 and 3-bedroom apartments, are designed from the inside out.

Working closely together with Amsterdam-based architectural firm Concrete, StoneCycling developed the Truffle Waste-

BasedBricks into 42 different shapes and sizes bricks with the right colour and texture for this eye-catching full block-front facade.

The brick facade on the first seven floors echoes the loft buildings dotting the area, while the upper floors are modern, featuring terraces of various sizes, a fully-glazed facade, and a rooftop terrace. The eighth

floor represents a break in the form and hosts a large outdoor terrace with a lounge and dog run.

The shine finish is a mix of recycled glass, adding a lively surface to the brick. The amount of daylight and the angle of the sun all influence the tone of colour of the entire facade and truly make the building shine!

Buiksloterham, Amsterdam,
The Netherlands

Crushing Pistachio in Amsterdam

Product

**WasteBasedSlip
Pistachio Raw & Sliced**

Architect

WE Architecten

Clients

**Private Client
Bouwbedrijf de Vries**

Application

Facade

Upcycled KG

4.600 KG

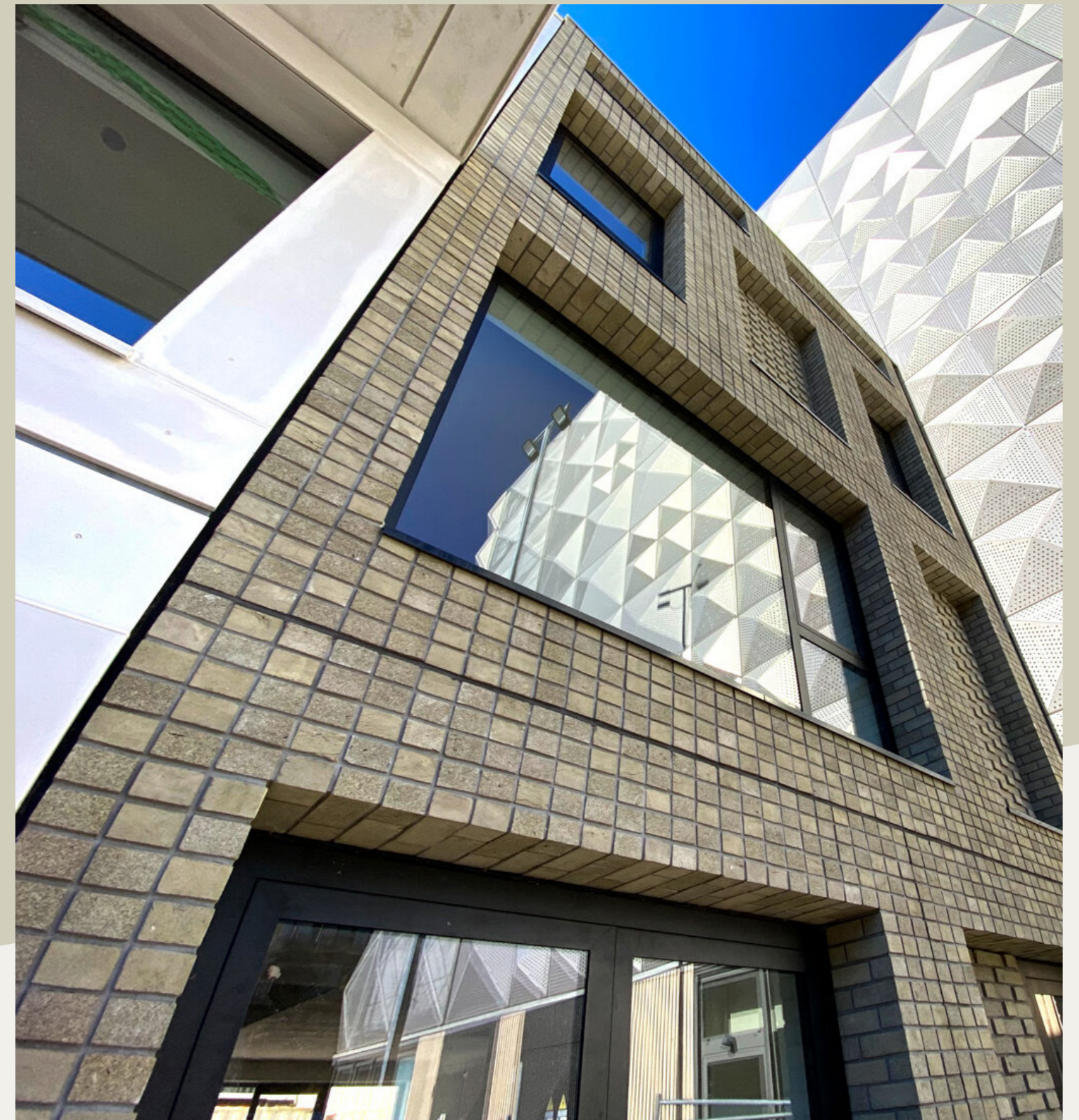


Amsterdam has a strong circular ambition and Buiksloterham will become its first circular neighbourhood. This former industrial and port area is increasingly becoming a vibrant city district where you can live, work and relax.

WE Architecten made a design for five single-family homes with a high degree of variety, flexibility and sustainability. They were already familiar with the mission of StoneCycling for years, and this project finally offered the opportunity to work together.

The five houses are all unique, yet form one whole. For the first time, the Pistachio WasteBasedSlip was applied as a building facade on DOK20. Optimal use has been made of a thick format brick from which 14 different shaped slips have been cut. In doing so, all corners and recesses of the building are covered like a full facade.

All materials used in DOK1620 are processed in a materials passport (Madaster), so that the properties can be retrieved later when reused.



The Beauty of Waste

In everything we do, upcycling, design, and craftsmanship play a central role. Beyond functionality, we're committed to proving that waste can be a resource that opens a new range of beautiful and surprising forms, textures, and colours.



Waste as a Resource



Design without Compromise

Want to explore the impact of collaboration on your next project? Plan a conversation with our team.

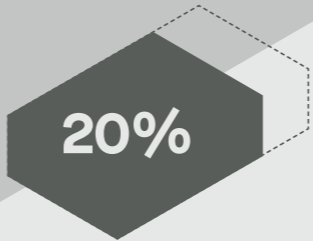
This is what a milestone looks like.



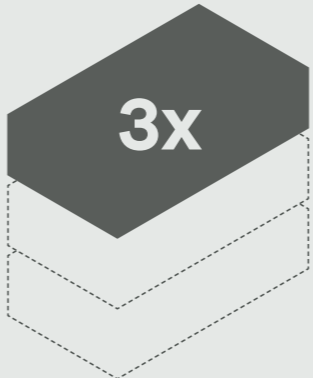
Cutting out the root cause of carbon emissions.
Traditional cement production accounts for 8% of global carbon dioxide emissions. Without radical change, building our world's infrastructure destroys our chance at a healthy and safe future.

Growing Tiles. Like nature.
We learned how nature grows through one of its most robust and enduring structures: coral. Taking inspiration from marine ecosystems, we're eliminating the need to emit carbon to produce building materials. With the help of bacteria, this tile grew in less than 3 days. It is 20% lighter than concrete block, but 3 times stronger.

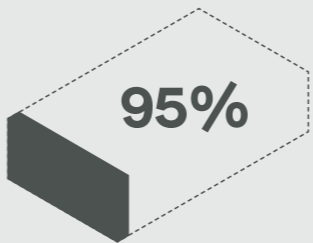
And the best thing?
No CO₂ was emitted during this process. None.



Lighter than Concrete Block.



Stronger Than Concrete Block.



Fewer CO₂ Emissions than Traditional Cement.



BioBasedTiles. Your solution to reduce your CO₂ footprint.

Order your samples at stonecycling.com/milestone

Rokin, Amsterdam,
The Netherlands

Working Together on Custom Brickwork

Product

**WasteBasedSlip
Mopé Raw & Sliced**

Architect

TANK

Client

Adyen

Application

**Interior Wall Cladding
Interior Flooring
Furniture**

Upcycled

77.250 KG

Dutch fintech company Adyen has relocated its head office, with approximately 1050 open-floor workplaces, plus informal spaces and meeting rooms, into the two historic buildings that housed the former Hudson Bay department store on the Rokin in Amsterdam.

For this project, TANK challenged us to develop a bespoke terracotta-like colour WasteBasedBrick. Adyen named the new brick 'Mopé', after the similarly coloured sweet fruit originating from Suriname. 'Adyen' is also a word from this country in South-America, meaning 'to start over again'. To align the product name with the company's founding story seemed a nice touch.

We created a truly unique surface texture on the product without the need for a different production technique by working with a very large tile that we drop from the mould without using sand. This leaves the product with a unique, almost water-stricken surface. Cutting the tile into WasteBasedSlips, an even broader palette of surfaces appears. No waste is created in the cutting process, which is unique for the ceramic industry.



Create your bespoke product with StoneCycling.

1

Defining the scope

The first step that we will undertake is really understanding what you are looking for. During an online video conference we will zoom in on the four cornerstones of a bespoke development:



Color

Getting the color right means that we will show you examples of products and projects's that we've made over the years. In return, we will ask you to share reference images, sample materials or anything else that can help us to understand better what your are looking for.



Size

Size matters from both an aesthetic as well as a technical perspective.



Texture

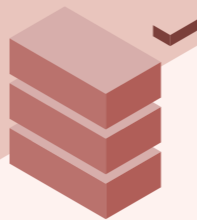
The look and feel of a material or surface depends a lot on the texture. Our production is flexible, we have the possibilities to create endless textures. We'll show you various directions to determine what can work in your design. Above you can see some examples of our textures.



Shape

Special bricks, corner bricks, ornaments; you name it, we make it. We can produce many different shapes.

2



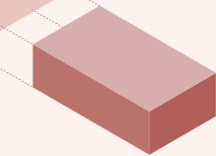
Price indication

Based on the defined scope we are able to do an initial cost price calculation. It is important that the client commits to the initial budget and planning in order to further work on this bespoke development. The commitment in this phase is a downpayment of 10% of the order value, that will be deducted from the total price upon ordering.

Lab-time

This is for us the time to get back into the laboratory. Based on your input we'll start tweaking our base recipes and production methods to meet the expectations set in scope. The test results will be shared with you and improved in a maximum of three rounds.

4



Ready for production

All the materials that we produce are tested and verified by an external and independent laboratory. The results will be translated into a datasheet with the relevant technical properties that will be delivered alongside the production.

3



Are you interested in exploring a bespoke development?
Plan a conversation with our team.



Clerkenwell,
London, England,
United Kingdom

Reinventing the Mushroom in London

Product

**WasteBasedBrick
Mushroom RAW**

Architect

Buckley Gray Yeoman

Clients

**General Projects
Graham**

Application

Facade

Upcycled KG

22.080 KG

Technique is a landmark new office space, conjured and crafted from two historic buildings in the heart of Clerkenwell, one of London's most vital and creative neighbourhoods.

To go against the waste of energy and resources involved in tearing down existing buildings, the project set out to be centred around adaptive re-use and sustainability. The building is set to achieve a BREEAM Excellent sustainability rating, a rare achievement for a refurbished building.

With the Mushroom WasteBasedBrick that we used in a previous project as a reference, we started working with the architects of Buckley Gray Yeoman on changing the recipe and production method slightly to allow for a larger variation in grey tones.





Waddinxveen,
The Netherlands

Connecting Past, Present and Future with Custom Brick

Product

**WasteBasedSlip
2Good2Waste**

Architect

Quadrant4

Clients

**LC Packaging
De Vries & Verburg**

Application

Interior Wall Cladding

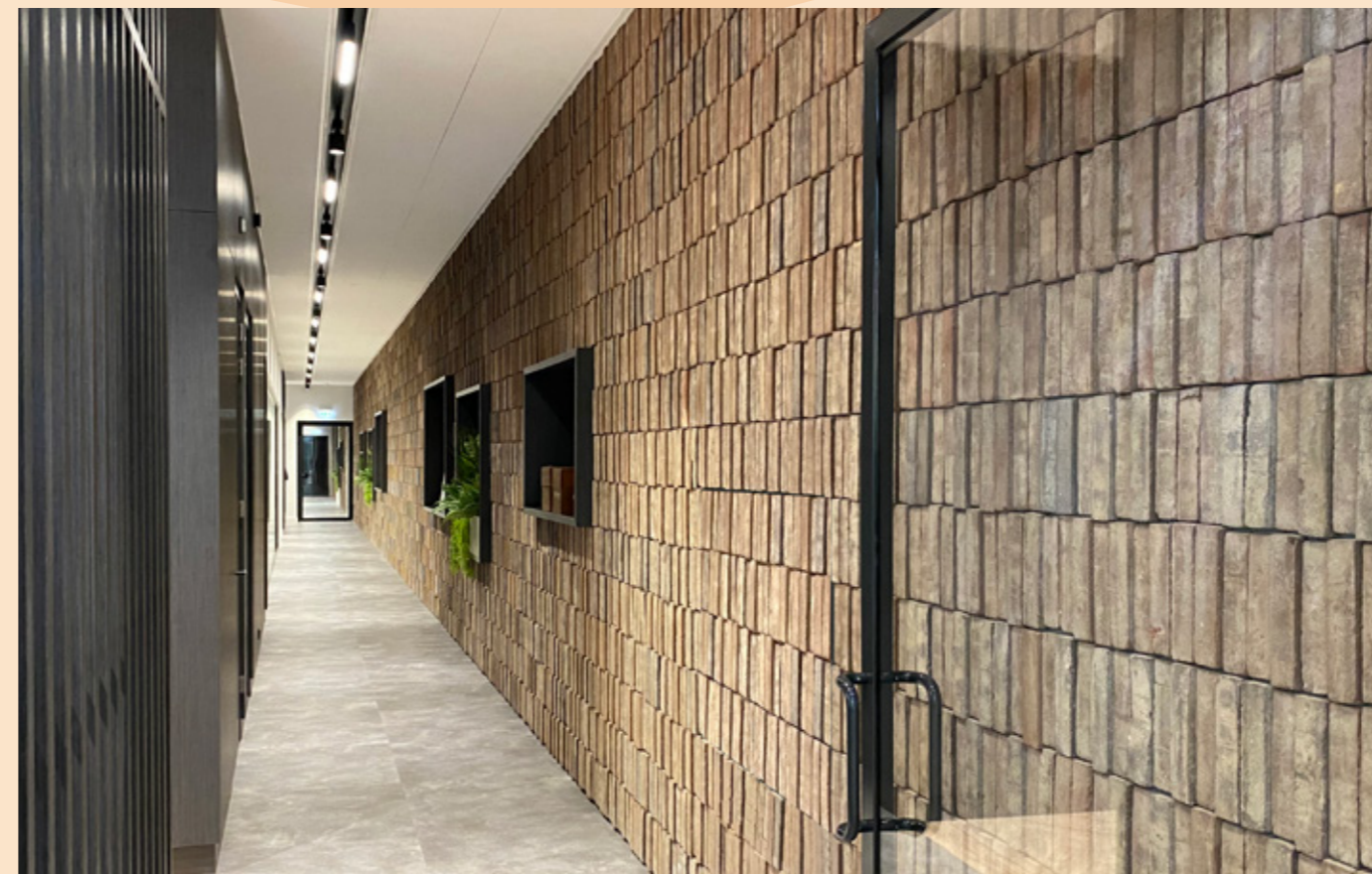
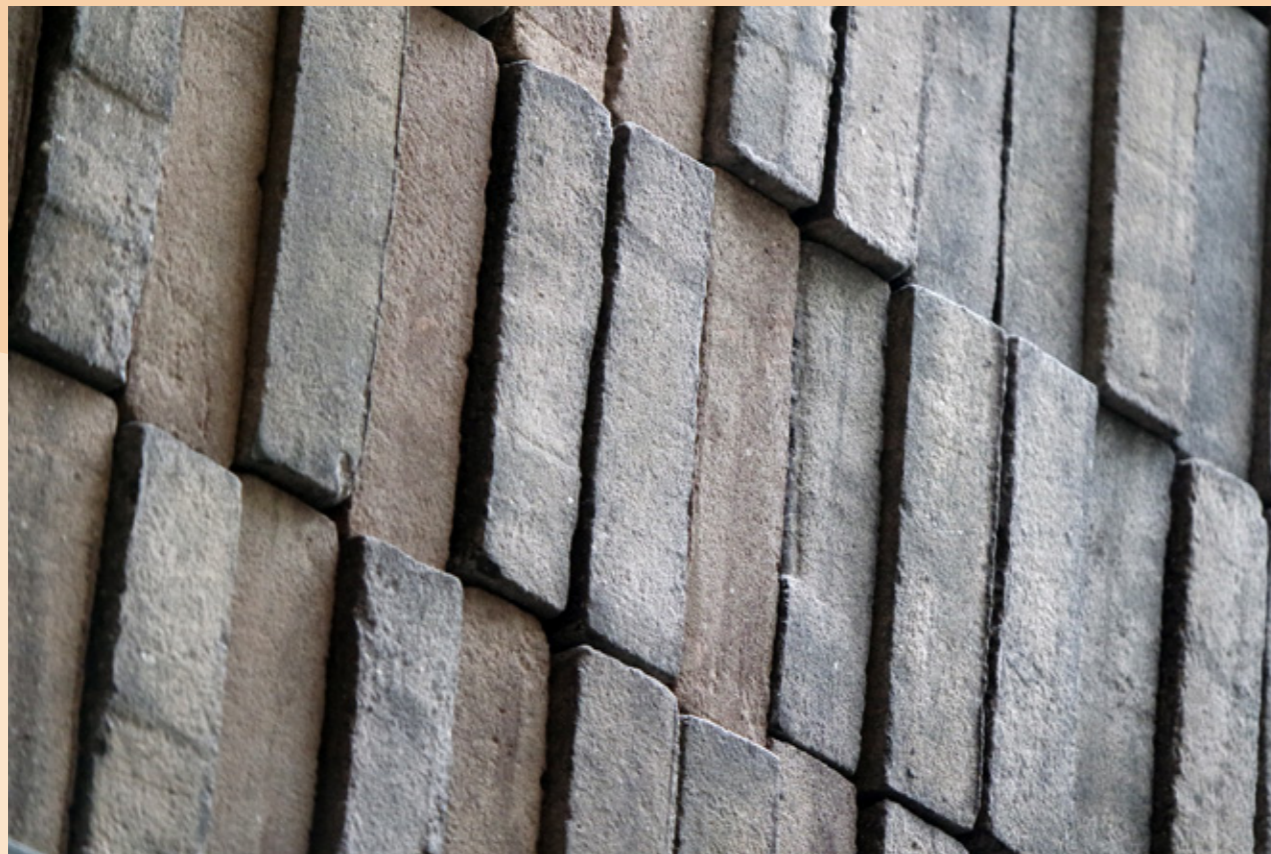
Upcycled KG

46.415 KG

Fourth generation family company LC Packaging was housed in a characteristic warehouse in Amsterdam in their early years. For the new interior, it was CEO Lucas Lammers' dream to bring some of those elements back, as a homage to his forefathers that founded the company.

By coincidence, the colour range of our limited edition 2Good2Waste line, made from transition recipe, resembled the facade of early offices of LC Packaging. We cut the bricks into brick slips of both 15mm and 25mm thickness. Through the brick bond that Quadrant4 developed, in which the brick slips are vertically applied without mortar, the interior walls hint towards a typical Amsterdam canal house facade.

LC Packaging clearly expressed its wish for a sustainable building with A BREEAM Outstanding **** certificate, which was obtained at completion of the project in 2020.



**Cleaning up
waste since 2013.
We have currently
upcycled over
1.882.901 kg
of waste into our
award-winning
building materials.**



Visit our website to calculate
your upcycle potentention.

**At StoneCycling, we work hard
on developing the next generation
of high-end, sustainable materials.
We invite you to explore the
possibilities and join our mission
to clean up the world.**

Reach out

| | |
|-------------------|--|
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**STONE[®]
CYCLING**

Sustainable
Building Materials