

Custom**Concrete**

An Ebema brand · est. 1946

Every project in this book began somewhere outside our workshop. It began with a sketch, an idea, an intention carried by a client, an architect or an artist – and only became a reality because they trusted us enough to share that vision and to keep refining it with us. The work shown here is never ours alone. It is a record of conversations: with the people who imagined each piece, with the contractors and installers who placed it on site, with everyone whose patience and attention turned an ambition into a finished object. To all of you – thank you. This book is yours as much as it is ours.



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## A STUDIO INSIDE A FACTORY

Ebema has shaped the Belgian landscape in concrete for eighty years. Three generations of family ownership, continuous investment in production capacity, and a deep working knowledge of the material have established the company as a reference in prefabricated concrete.

CustomConcrete extends that legacy into a different register. It is the place within Ebema where the standard product gives way to the singular piece – or to a unique small series in a custom colour or geometry. Where the brief comes with a specific spatial ambition, and the answer is shaped element by element. CustomConcrete is, in essence, a studio inside a factory: a team that engineers prototypes, refines recipes and finishes, and delivers concrete that is custom in dimension, texture, colour and intent.

## CRAFTSMANSHIP

Concrete, in our hands, is a tuneable material. We work across three production methods – cast, pressed and direct-demoulded concrete – and a wide palette of finishes, from polished and washed to sandblasted, hammered, smooth as cast and textured by mould. Colour and texture come from a careful selection of pigments, aggregates and additives, refined through curing. Each project asks for something different: a one-off piece, a complex geometry, or a larger custom series in a tailored colourway or bespoke shape. Forms range from precision-cut tiles a few centimetres thick to monolithic pieces weighing several tonnes.





## WHO WE ARE

CustomConcrete is a small, consistent team – engineers, designers, CAD-drafters, mould-makers, finishers and project leads, with decades of combined experience in concrete and a long history of working together. Over the years we have answered the most demanding briefs at Ebema, from memorial landscapes and sculptural commissions to products for heritage buildings and one-off objects for collectors and clients. Every project begins with a conversation: a sketch, a sample, a brief that arrives without an obvious answer. From there, we work closely with architects, artists and private clients through every stage – refining the mix, prototyping the geometry, supervising the cast and accompanying the install on site. We judge a project less by its scale than by how well it answers the brief in front of us.



## Art Comission

Landscape

Architectural

Object



## Furniture doesn't cry

Created for Barбора Žilinskaitė's solo exhibition at Friedman Benda Los Angeles, this anthropomorphic concrete bench translates her sawdust language into cast concrete – organic, undercut on every side, lifelike.

Barбора Žilinskaitė builds furniture that seems to feel. Her practice, normally working with reclaimed sawdust for its texture and storytelling qualities, treats objects as if they were carrying human emotion. For her solo exhibition "Chairs Don't Cry" at Friedman Benda Los Angeles, she translated that language into concrete. The bench is organic, with undercuts on every side – geometry that asks for a careful mould strategy and a clean demoulding sequence rather than a standard cast. The finished piece holds its sculptural and lifelike presence intact, with the soft, anthropomorphic surface that belongs to her wider body of work.

**Designer**

*Barбора Žilinskaitė*

**Year**

2024

## Memorial monument for the Brabant Killings

On the site of the November 9, 1985 attack in Aalst, eight concrete panels stand in an octagonal arrangement – one for each life lost. Their colour shifts from warm yellow to deep red.

This memorial honours the eight victims of the November 9, 1985 attack in Aalst, one of the most violent acts of the Brabant Killings. Bas Smets places eight concrete panels in an octagonal arrangement around a clearing, one for each life lost, ringed by Ginkgo Biloba trees – symbols of resilience and continuity. By working with multiple successive castings and carefully selected aggregates, we developed a gradual colour transition across the panels, flowing from warm yellow to deep red. Polished after curing, the surfaces reveal the geological richness of the mix, and the colour gradient becomes the central material gesture of the memorial.

Designer *Bas Smets*  
Year *2023*  
Contractor *Alheembouw*





## Aedicula

At Abdij van Park, sixteen precast concrete modules cluster into a contemporary niche-landscape. The work invites pause, encounter and a quiet sense of stillness within the cultural site.

Aedicula reinterprets the architectural notion of the niche as a contemporary landscape intervention within Abdij van Park. Renato Nicolodi developed the work through a participatory process and realised it with us at Custom-Concrete. Sixteen precast concrete modules, arranged in clusters, form a spatial composition that invites visitors to sit, stand and move between them. The interplay of elements and voids creates a physical and mental experience of stillness. Defined by the clarity and precision of the concrete, the installation offers a sequence of quiet, contemplative spaces where architecture and landscape begin to merge.

**Designer**

*Renato Nicolodi*

**Year**

2023



*“A sincere and human collaboration  
inspires you as an artist.”*

– Renato Nicolodi



## Deambulatorium III

Deambulatorium III translates the rhythm of Romanesque arches into a graphic, architectural composition in concrete. Lower arches frame views; higher ones shift perspective. The work invites a slow, contemplative walk.

Deambulatorium III takes its name from the Latin *ambulare* – to walk – and from the medieval ambulatory, the passage that allowed pilgrims to circle the altar of a church. Renato Nicolodi reinterprets that rhythm as a graphic and spatial composition in concrete: a sequence of arches at different heights, framing views and shifting perception as one moves between them. The lower arches meet the body at eye level. The higher ones change scale and reset the sense of perspective. The composition is layered, almost choreographed, and the visitor is invited into a kind of mental pilgrimage.

Designer

*Renato Nicolodi*

Year

2022





*“This work stacks three layers of classical Romanesque arches, referring to the walkway for pilgrims around the altar in a church.”*

*– Renato Nicolodi*





Art Comission

**Landscape**

Architectural

Object



## Sigma Plan – flood landscape elements

Part of the Scheldt river flood control programme, this ongoing series of custom concrete landscape elements – steps, slabs, blocks, information columns – follows the irregular flow of the river rather than imposing a grid.

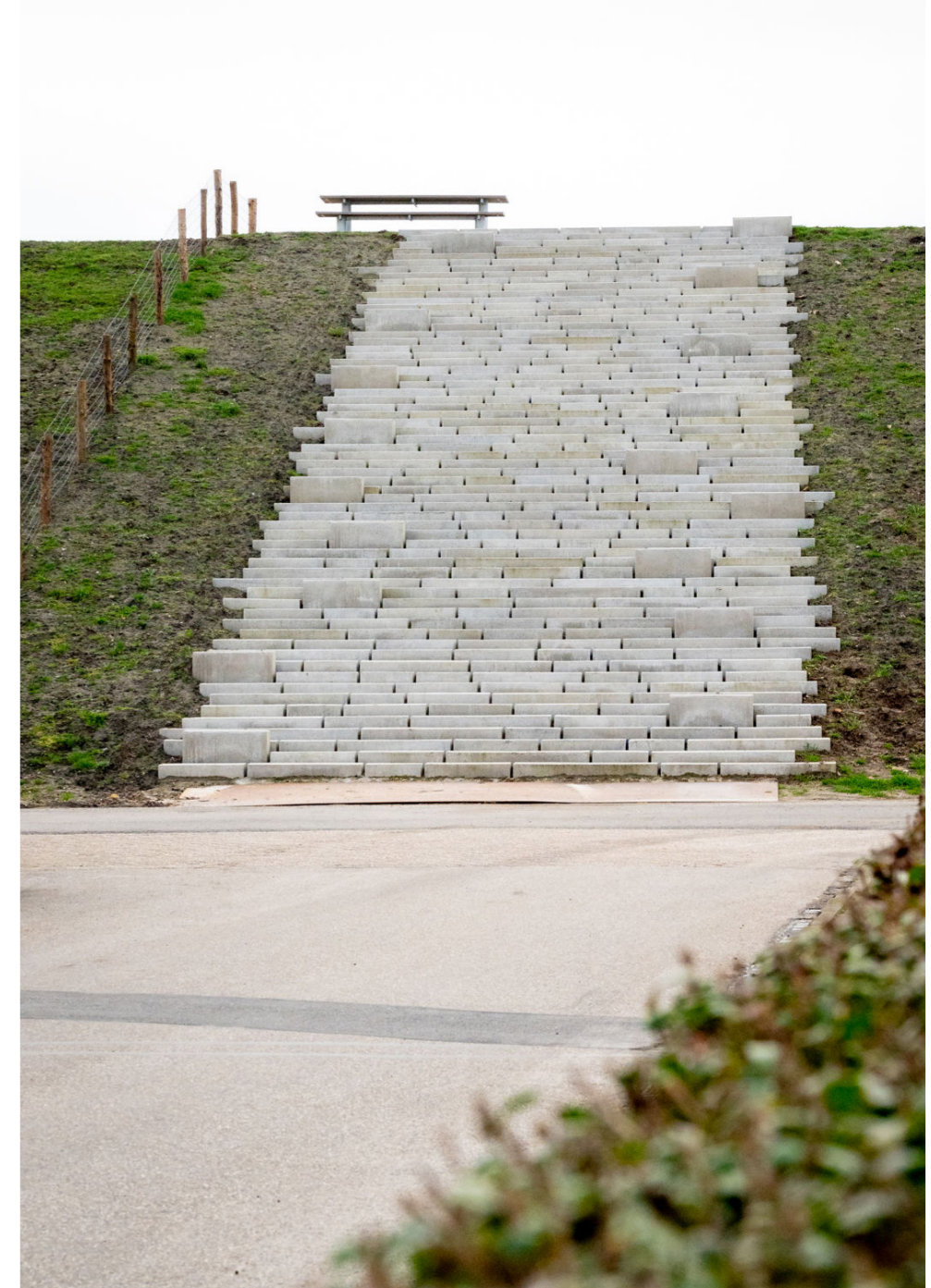
The Sigma Plan is one of the most ambitious flood-control programmes in Europe, restoring tidal nature along the Scheldt while protecting Flanders from rising water. Working with designer stefan schöning, we have been developing custom precast concrete elements – steps, slabs, blocks and information columns – that inhabit this evolving landscape without dominating it. The elements adopt irregular forms, earthy tones and rough textures that allow them to recede into riverbank and reed. The roughness is also functional: it provides grip after flooding, ensuring the elements remain safe long after the water has retreated. The work was recognised in 2025 with the FEBE Elements Precast in Landscape award.

<b>Designer</b>	<i>stefan schöning</i>
<b>Year</b>	<i>2017 - ongoing</i>
<b>Contractors</b>	<i>Hertens Infra Jan de Nul Herbosch-Kiere Van Huele Gebroeders</i>
<b>Award</b>	<i>FEBE Elements – Precast in Landscape 2025</i>



“The design concept is based on the metaphor of a “time capsule.” That’s why we incorporate elements from the past, present and future, developed through the themes of safety, water, history, future and nature.”

– stefan schöning



## “Let Me Recharge” – Landscape bench with integrated heating

A twelve-metre heated concrete bench overlooking the Meuse river floodplains. The first of its kind in Belgium, it offers warmth, rest and quiet comfort within the pilgrimage site of Heppeneert.

With “Let Me Recharge”, Studio Segers and André Moens propose a contemporary place of rest in the historic pilgrimage site of Heppeneert. Four prefab concrete elements form a twelve-metre seating structure facing the floodplains of the Meuse. What sets the bench apart is the integrated heating – a first for a publicly accessible concrete seat in Belgium. The body remains in contact with a tempered surface, and rest becomes possible even on the coldest days. Designed in collaboration with the local community, the bench knits hospitality into infrastructure.

Designer *Studio Segers & André Moens*  
Year *2025*  
Contractor *Limonta NV*





## Zonhoven – Greened Village Centre

Zonhoven's village centre, reimagined as a climate-resilient public space. Hard surfaces give way to a green-blue landscape, the Roosterbeek stream is reopened, and permeable paving and integrated drainage do the patient work of holding water in place.

The "Greened Village Centre of Zonhoven" replaces a sealed plaza with a climate-resilient, people-friendly public space. Sweco Hasselt's design reopens the Roosterbeek stream and weaves a green-blue landscape through the heart of the village. Our role was to deliver the precast vocabulary that holds the system together: permeable paving that lets rainwater infiltrate, integrated drainage elements that guide and manage excess water, linear curbs that structure the spaces, and custom prefabricated elements with integrated LED lighting for atmosphere and accessibility after dark. In a small but telling move, concrete pavers are also used to clad vertical walling, creating one coherent material language across horizontal and vertical surfaces. The project received the FEBE Elements Audience Award.

Designer	<i>Sweco Hasselt</i>
Year	<i>2025</i>
Contractor	<i>DCA Infra</i>
Award	<i>FEBE Elements - Audience Award 2025</i>

## Onuments

Six memorial landscapes across Belgium, each the same and each unique. Conceived by Bas Smets as places of reflection on the COVID-19 pandemic, the Onuments anchor collective memory in locally sourced concrete.

The Onuments are a series of six memorial landscapes spread across Belgium – Kortrijk, Drongen, Lommel, Aarschot, Brussels and Leuven – each commemorating the suffering and the lives lost during the COVID-19 pandemic. Conceived by Bas Smets, they share a single spatial concept: a circle of concrete seating elements, symbolically interrupted by nature. What changes from site to site is the matter itself. Each Onument incorporates local, often circular aggregates that root the work in its place. In Leuven, reclaimed gravestones were crushed and reused as granulates, transforming material with profound emotional weight into a renewed place of contemplation. Elsewhere, regional sand and stone give the surface its specific colour and grain.

**Designer** *Bas Smets*  
**Year** *2021-2024*  
**Contractors** *Besix*  
*Stadsbader*  
*Dirk Bauwens*  
*Dilissen*





*“Each Onument is the same, yet different:  
a circle in concrete seating elements,  
symbolically interrupted by nature.”*

*- Bas Smets*



## Pont des Trou

At the foot of one of the last surviving medieval fortified river gates in Europe, a contemporary public realm reconnects Tournai with the Scheldt. Over 1,100 bespoke concrete elements shape steps, tribunes and promenades.

The Pont des Trou is one of the last surviving medieval fortified river gates in Europe, and any intervention nearby carries a particular weight. Working with Bureau Greisch and ANMA Architectes Urbanistes, our task was to build the contemporary public space that reconnects Tournai with its waterfront – without competing with the bridge. A system of more than 1,100 custom prefabricated concrete elements organises the riverbanks into a sequence of accessible quays, terraces and gathering spaces. Steps, tribunes and promenades share a single material language, executed with the precision a heritage context demands.

Designers *Bureau Greisch sa*

*ANMA Architectes Urbanistes*

Year *2023*

Contractor *Galère sa*

Award *FEBE Elements – Precast in Landscape 2023*





## Quartier Bleu

At Quartier Bleu in Hasselt, custom precast concrete shapes both the everyday – forty bespoke seating elements scattered through the public space – and the infrastructural, marking and organising the entrance to the underground parking.

At Quartier Bleu in Hasselt, the public space operates at two scales, leaving room for both people and traffic. Forty bespoke seating elements are distributed across the whole zone, providing durable, generously sized places to pause within a busy urban quarter. The entrance to the underground parking is shaped by custom concrete elements that organise circulation and lift this piece of infrastructure out of anonymity and into architectural grandeur. Working with De Gregorio & Partners and Arcadis, we tailored each element to its position. Public space, functional infrastructure and material continuity meet in a single language, applied with the precision the location demands.

**Designer** *De Gregorio & Partners / Arcadis*  
**Year** *2023*  
**Contractor** *Willemen Infra nv*



## City River

At Oostende's City River, a public space and a stormwater system become one continuous infrastructure. Over 1,200 bespoke concrete elements, in some 150 distinct types, define the edges and stepping stones of the urban stream.

Within Oostende's City River, stormwater is given a place. Instead of disappearing into a buried pipe, rain is collected in an open urban stream that infiltrates gradually into the ground, contributing to a more sustainable water management strategy and a more legible public realm. The geometry of the design called for extreme variation: more than 1,200 bespoke concrete elements were produced in around 150 different types, each precisely tailored to its position along the river's edge, as a stepping stone, or as integrated seating.

Designer	<i>Farys cv</i>
Year	<i>2022</i>
Contractor	<i>Seru Daniel &amp; Zonen</i>
Award	<i>FEBE Elements – Precast in Landscape 2022</i>



Art Comission

Landscape

**Architectural**

Object

## PIUS-X School

A cascading landscape of steps and seating turns a level difference into the heart of the school. Custom concrete elements organise circulation, host informal gatherings and reinforce the courtyard as a collective space.

At PIUS-X school, a level change between courtyard and main building becomes the project's central social space. Custom concrete elements are composed into a stepped landscape that descends toward the courtyard, acting at once as circulation, seating and informal stage. POOT architectuur use the geometry of the steps to structure movement and to invite pause: wide treads encourage people to sit before they descend, and the rhythm of the cast elements gives the surface a calm, ordered presence. The courtyard becomes a destination rather than a residual outdoor space.

Designer	<i>POOT architectuur</i>
Year	2024
Contractor	<i>Matthysen</i>





## MUCE circular pavilion

A travelling, fully demountable pavilion built from reclaimed materials, designed around a clear circular brief. Reusable Ebema Eurodal concrete slabs anchored the structure and doubled as steps and seating within the structure.

The MUCE pavilion, designed by Cuypers & Q with Nina Maat, was a travelling object built around a circular brief. Its mirrored cubic volume invites visitors into a conversation about how we build, demount and reuse. The structure itself was assembled from reclaimed harbour steel and decommissioned tent textile, every component documented and demountable. Our role was to provide the counterweight that kept the pavilion stable on every site, without violating the brief: standardised, robust concrete slabs that double as steps and seating around the structure, and that are recovered and redeployed at each new location.

Designer	<i>Cuypers &amp; Q (with Nina Maat)</i>
Year	2024
Contractor	<i>Willemsen</i>

## Interior-exterior connection with colour-matched tiles

For the main office of WITH20 architecten, custom concrete tiles extend the deep red interior of the dining area outwards onto its terrace – colour-matched until the two surfaces read as one continuous floor.

At the heart of this project is continuity. WITH20 architecten designed their own main office around a dining area finished in a saturated red, and asked us to carry that palette through to the terrace beyond it. We developed bespoke concrete tiles whose colour and texture were tuned across multiple castings, sampled and adjusted against the indoor reference until the two surfaces read as one material moving from inside to out. The terrace stops feeling like the end of the room and carries the same atmosphere outdoors. Light, weather and time will age the exterior surface differently, but the colour memory remains.

Designer

*WITH20 architecten*

Year

2023





## Pastorale façade elements

Custom precast concrete cornices and skirting boards frame the masonry of this renovation. A tone-on-tone aggregate and brick palette gives the façade a quiet, low-key depth.

For this renovation, the façade is structured by a family of custom precast concrete elements detailed by Faktordertig architects. They function as cornices and skirting boards for the building, framing the masonry without overtaking it. Aggregates were selected in a tone-on-tone composition with the bricks, so the concrete and the brickwork share a palette and the elevation gains a subtle depth. The polished finish exposes those aggregates, picking up shifts in daylight in a way that flat cladding cannot, and the building gains presence without ostentation.

Designer

*Faktordertig architects*

Year

2023

Contractor

*Hadibouw*





## Royale Belge exterior tiles

For the renovation of the protected Royale Belge headquarters – an 80,000 m<sup>2</sup> monument of Belgian post-war modernism – we co-developed bespoke outdoor tiles that match the original material without imitating it.

The former Royale Belge headquarters is one of the major buildings of post-war Belgian architecture. The 80,000 m<sup>2</sup> complex, listed as protected heritage, demanded a renovation that could meet contemporary standards without flattening its character. Working in close co-creation with DDS+, we developed exterior tiles whose composition, aggregate and finish were tuned across multiple trials until the surface read as a continuation of the original architecture. The intervention is deliberately understated – the tiles meet the building on its own terms and carry its texture into a new chapter. The project was recognised with the Brussels Architecture Prize for Contemporary Heritage.

Designer	<i>DDS+</i>
Year	<i>2023</i>
Contractor	<i>CITEB nv</i>
Award	<i>Brussels Architecture Prize – Contemporary Heritage</i>



## Hydraulic Engineering Laboratory – façade in grass pavers

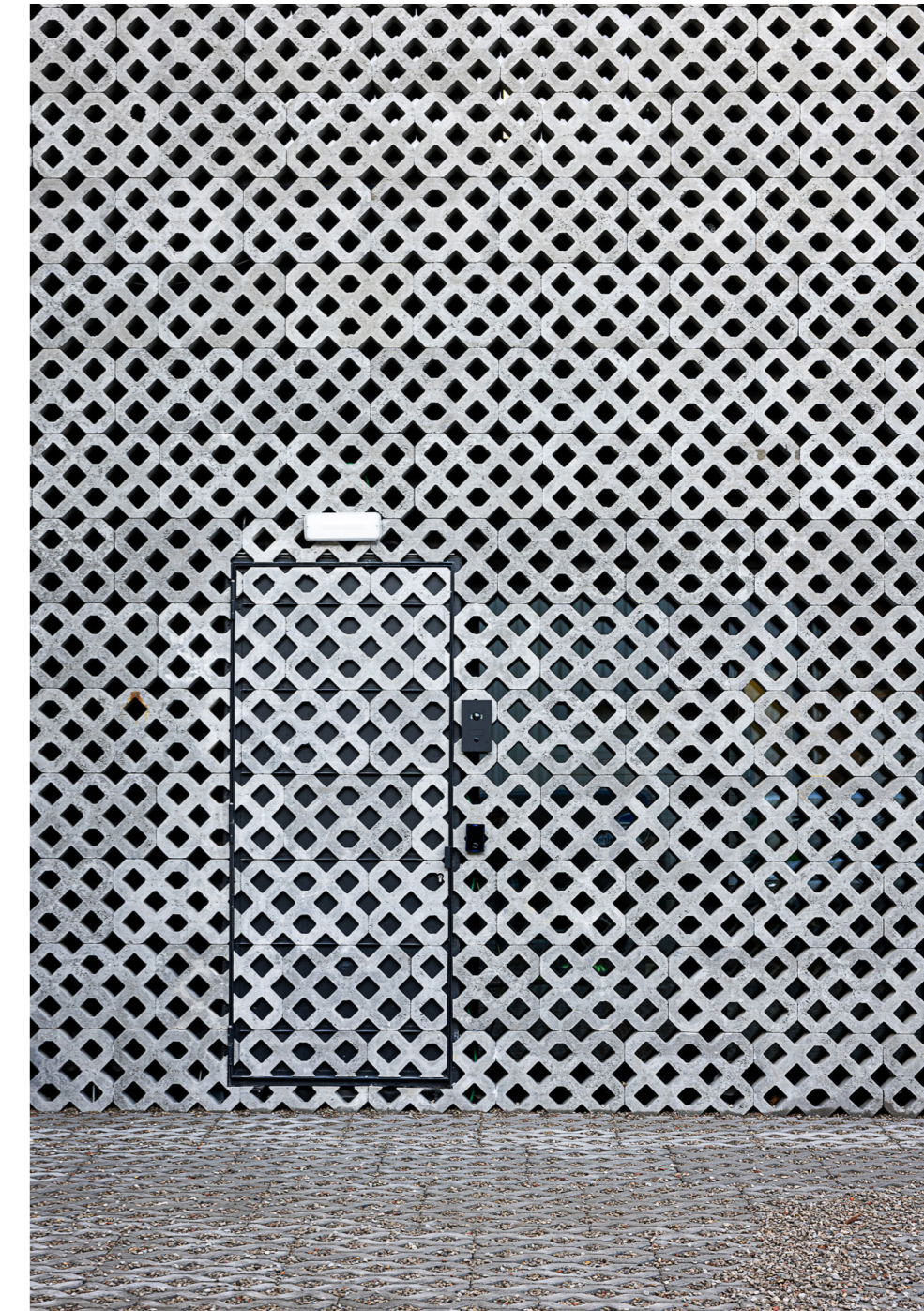
A standard grass paver, reinterpreted. Used both horizontally and vertically, it becomes the façade screen of the Waterbouwkundig Laboratorium and blurs the line between paving and architecture.

For the Waterbouwkundig Laboratorium, Architecten Achtergael took the Helix grass paver – an element designed for the ground – and turned it ninety degrees onto the façade. What is normally walked upon becomes the building's defining surface: an open concrete screen that wraps the volume, lets light and air pass through, and gives the laboratory a clear public face. The same paver is used across the exterior floor plane and the wall, dissolving the conventional boundary between horizontal and vertical. The structure reads as a single porous volume that filters views and weather while signalling its civic role as a contemporary knowledge centre.

Designer *Architecten Achtergael*

Year *2023*

Contractor *AB-EIFFAGE / GBS bouw- en gevelwerken*





## DronePort

DronePort Sint-Truiden, a wall that does three things at once: it brands the site, hosts a bicycle parking facility, and uses our Smooth Objects range as its surface vocabulary.

At DronePort Sint-Truiden, the brief asked for something multifunctional and clearly part of the site. Together with DBV architecten, we delivered a wall composed of twelve prefabricated concrete elements from our Smooth Objects range, finished in a soft grey velvet texture. Cut-outs in each element form the logo and lettering, so the wall becomes the project's identity at the same time as it shelters a bicycle parking facility. The Smooth Objects finish gives the surface a tactile depth that resists the flatness of much industrial signage, and the modular system means the wall can be maintained without losing its character.

**Designer**

*DBV architecten*

**Year**

2019

**Contractor**

*Willemen Bouw*

## Cour anglaise – concrete cascade

Behind a discreet villa façade, a sculptural cascade of pre-cast concrete elements unfolds toward the garden – steps, seating, tables, planters and walls composed into a single coherent landscape.

At first glance, this villa seems modest. Toward the garden, it opens into a sculptural intervention: a sunken courtyard reinterpreted as a cascade of precast concrete elements. Steps become seating, seating becomes a table, a table becomes the edge of a planter – all composed from a coordinated family of cast pieces. Designed by IO-architecten, the cascade mediates the level change between terrace and landscape and creates a place to inhabit. The monolithic presence of the concrete is softened by greenery, and the geometry holds across the whole composition.

Designer *IO-architecten*

Year *2018*

Contractor *D'Eer algemene ondernemingen / Nicolas Rombaut*





## D-One – Permeable Concrete Patterns

A bespoke paving landscape where custom concrete tiles create continuous graphic lines, structure movement across the site, and integrate water permeability into the parking surface.

At D-One in Kortrijk, the outdoor landscape called for a paving solution that could combine architectural identity with technical performance. Through a carefully coordinated mix of custom tiles, a surface composition was created that extends fluid linear patterns across the entire parking area. The continuous geometry creates a subtle visual rhythm that guides movement and reinforces the spatial coherence of the site and gives the large outdoor surface a distinct architectural character while the paving system simultaneously guarantees water permeability throughout the site. Different surface textures distinguish the driving lanes from the parking bays, allowing circulation and parking zones to be read intuitively without additional markings.

Designer *Goedefroo Achitects*  
Year *2015*  
Contractor *Betopro*





## Van Mullem

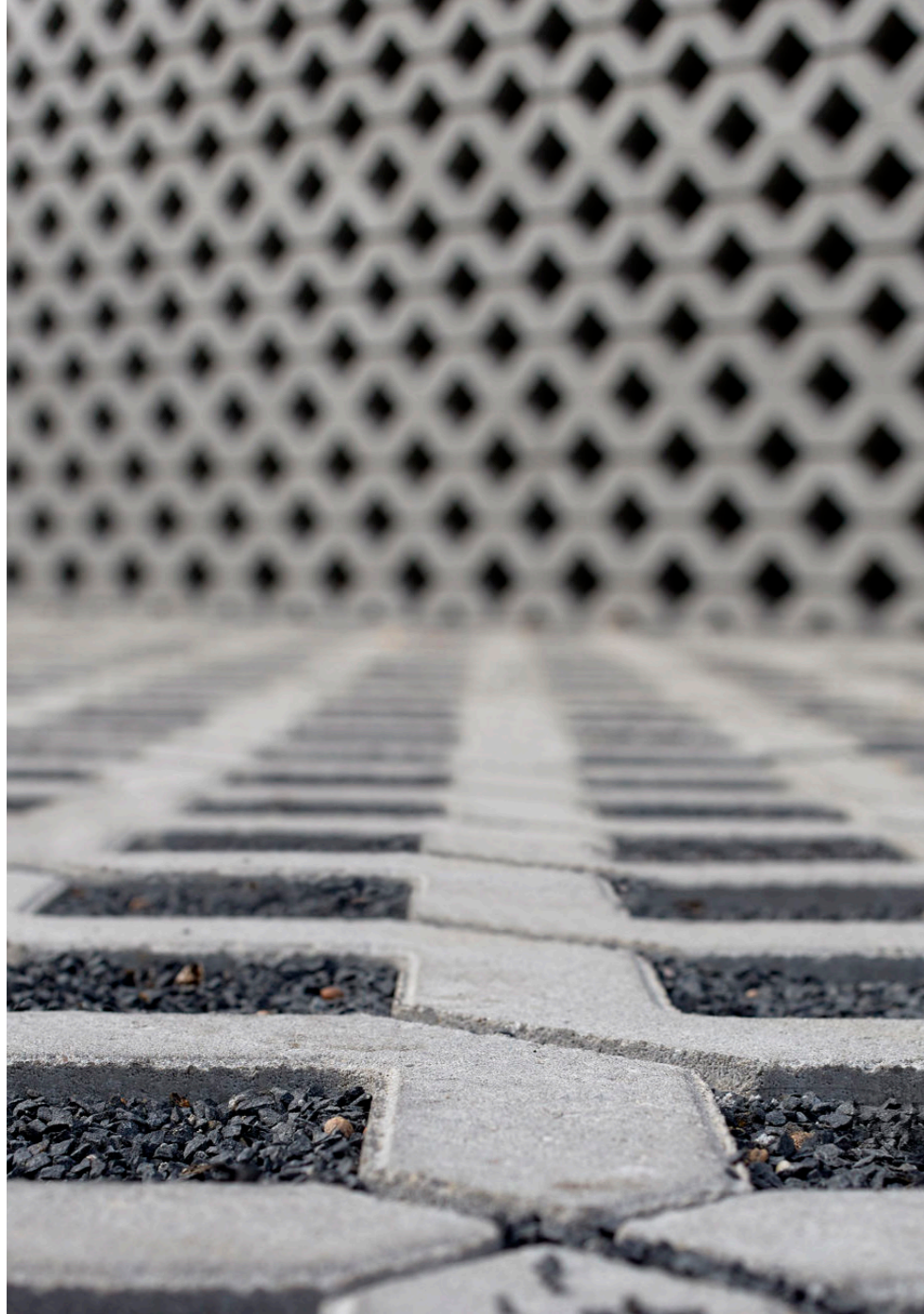
A single element, two orientations. Helix grass pavers deployed across the ground plane and rise into a claustra-like façade, knitting infrastructure and architecture into one continuous, porous system.

With Van Mullem, AST 77 take a familiar permeable paving element and let it climb. The Helix paver, designed to integrate grass and absorb water at ground level, is reoriented into a vertical screen – a claustra-like façade that holds light, structure and greenery in the same plane. Paving becomes architecture; the boundary between horizontal and vertical disappears; ecological performance and spatial quality reinforce one another. A single material system defines enclosure, permeability and texture across the whole site. The cross-shaped pattern of the Helix paver eventually became the inspiration for the Van Mullem & Zonen logo – a small detail that records, in graphic form, the project's central material idea.

**Designer** *AST 77*

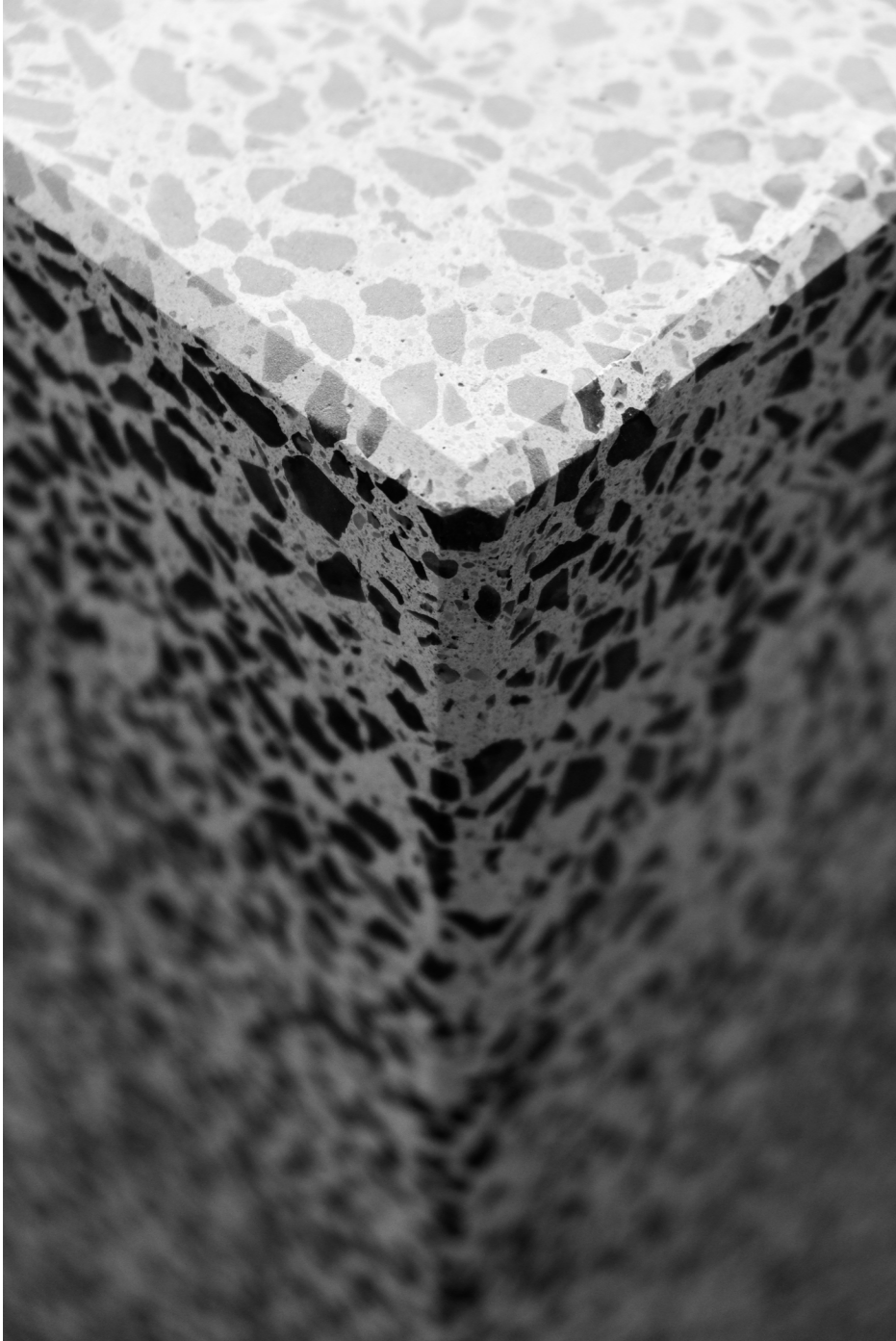
**Year** *2015*

**Contractor** *Edibo*



*The cross-shaped pattern of the Helix pavers, used for this project on both the floor and the façade, later became the inspiration for Brand's logo.*





Art Comission

Landscape

Architectural

**Object**



## Circular use of natural stone – Il Granito

A collaboration with Il Granito, transforming the offcuts of one of Belgium's most exacting natural-stone ateliers into a new family of cast concrete products.

Il Granito works at the pinnacle of natural stone, producing custom pieces for an international clientele. Their atelier produces, inevitably, residual material: offcuts and dust whose mineral quality remains exceptional even after the original piece is finished. In our collaboration, that waste stream becomes a raw material. Residual natural stone is crushed into granulates and incorporated into concrete mixes, producing slabs, bespoke elements and solid shapes that can be milled or machined into custom components. The lifecycle of the stone is extended, the need for virgin aggregates is reduced, and the resulting concrete acquires a distinct, authentic appearance that ordinary mixes cannot match.

**Designer**

*Il Granito × CustomConcrete*

**Year**

*2025 - ongoing*



## Custom Kitchen countertops

For a private kitchen designed with Architecture by Mélanie, we developed a custom concrete countertop and a small family of related cast pieces – sized, coloured and finished to live as a quiet part of the room.

This project gathered the central pieces of a kitchen into a single material conversation. Working with Architecture by Mélanie, we developed a custom concrete countertop and accompanying cast elements, sampled and adjusted until colour, surface and tactility lined up with the rest of the interior. Concrete in a kitchen carries specific demands – it has to resist heat, water and oil, accept the routines of daily use, and age into something better rather than worse – and the mix and finish were tuned with that in mind. The result reads less like a fitting and more like part of the architecture: a generous working surface that the room is built around, paired with the smaller cast pieces that complete the composition.

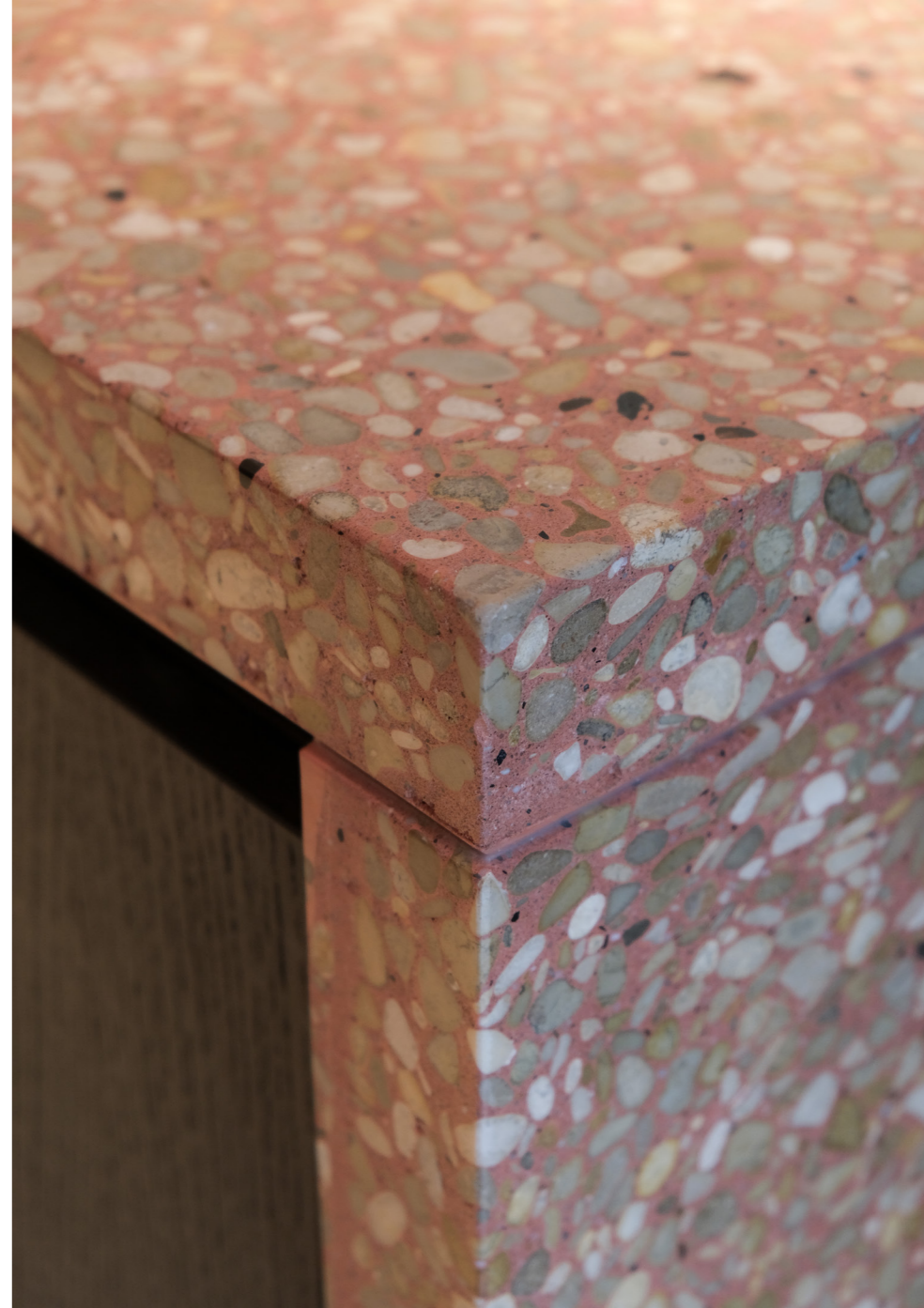
Designer

*Architecture by Mélanie*

Year

2025







## Cosy Circle

A bespoke circular seating element, cast in smooth self-compacting concrete. Architectural in clarity, social in function – designed to host conversation as much as to define a space.

The Cosy Circle began as a specific request from a client and became a piece of the CustomConcrete vocabulary. The brief was simple: a circular outdoor seating element, generous enough for a small group, refined enough for a high-end private setting. The answer was a fully cast piece in smooth, self-compacting concrete, with a tactile finish that holds up to weather. Dimensions, configuration and detailing were all adapted to the spatial context the client had in mind, in the kind of straightforward conversation that most of our custom pieces grow out of.

**Designer**

*CustomConcrete*

**Year**

2022





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