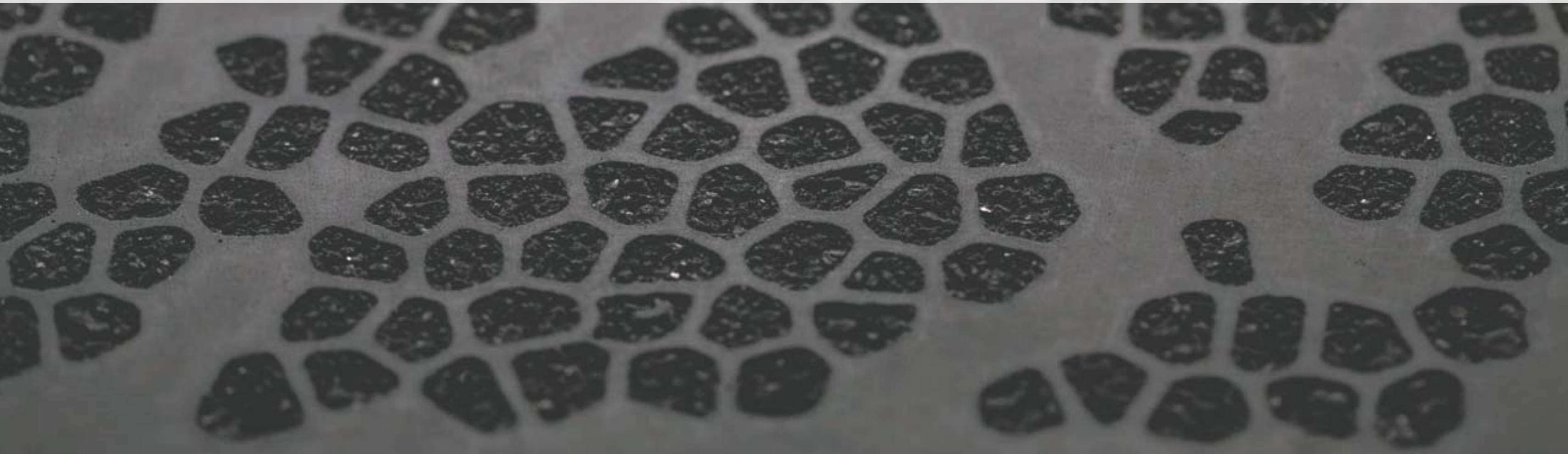


Making a concrete impression

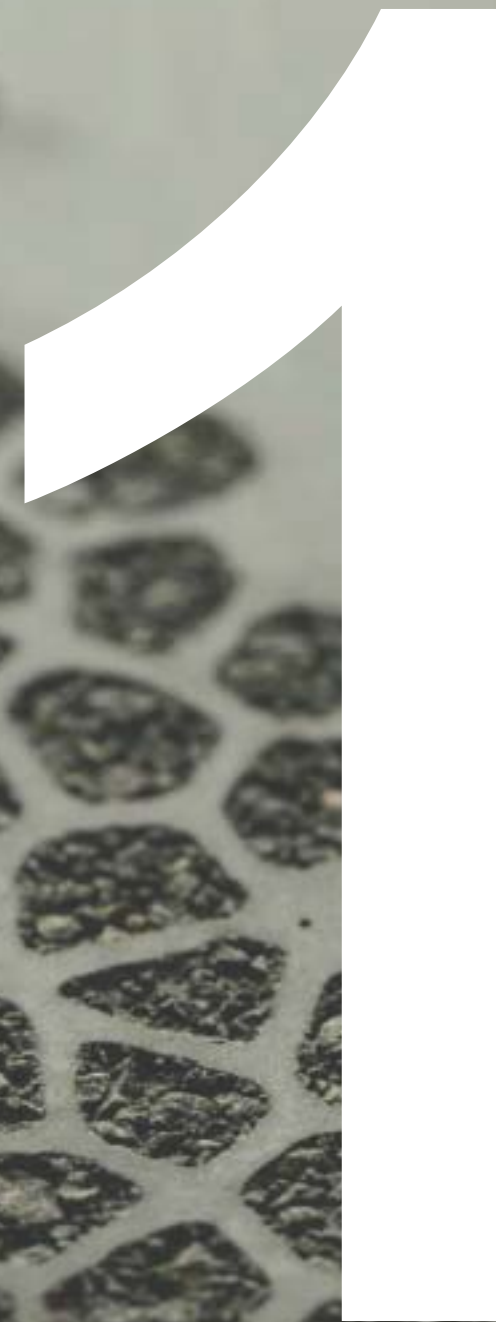
with graphic concrete



Contents

- 1 Introduction
- 2 Product
- 3 Design
- 4 Inspiration
- 5 Design Process
- 6 References

Introduction



Industrially produced inspirational environments

- Graphic concrete enables durable patterns and images to be produced on prefabricated concrete surfaces
- Each project can be individually tailored to create unique results
- Enables architects and designers to turn their visions into reality
- A real industrial product for large-scale surfaces
- A tool with which architects can be more visually creative

*“ We believe in
building a better
environment
through the use of
graphic concrete*

Graphic concrete is



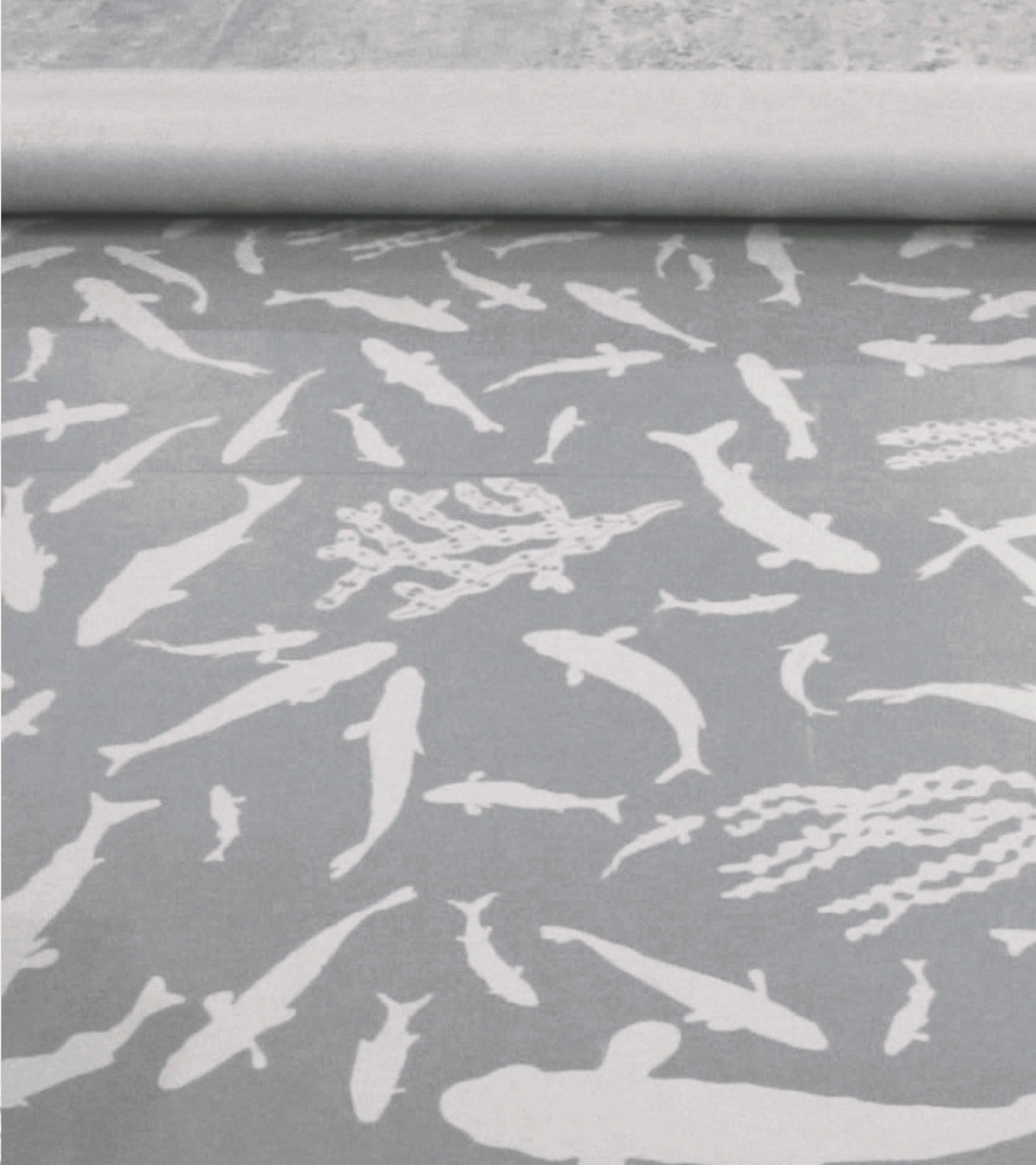
exposed aggregate

+

fair face

=

graphic concrete



Graphic concrete membrane and production

Images are printed on a special membrane with a surface retarder.

The surface retarder exposes the concrete surface by preventing it from hardening in the casting.

© graphic concrete®



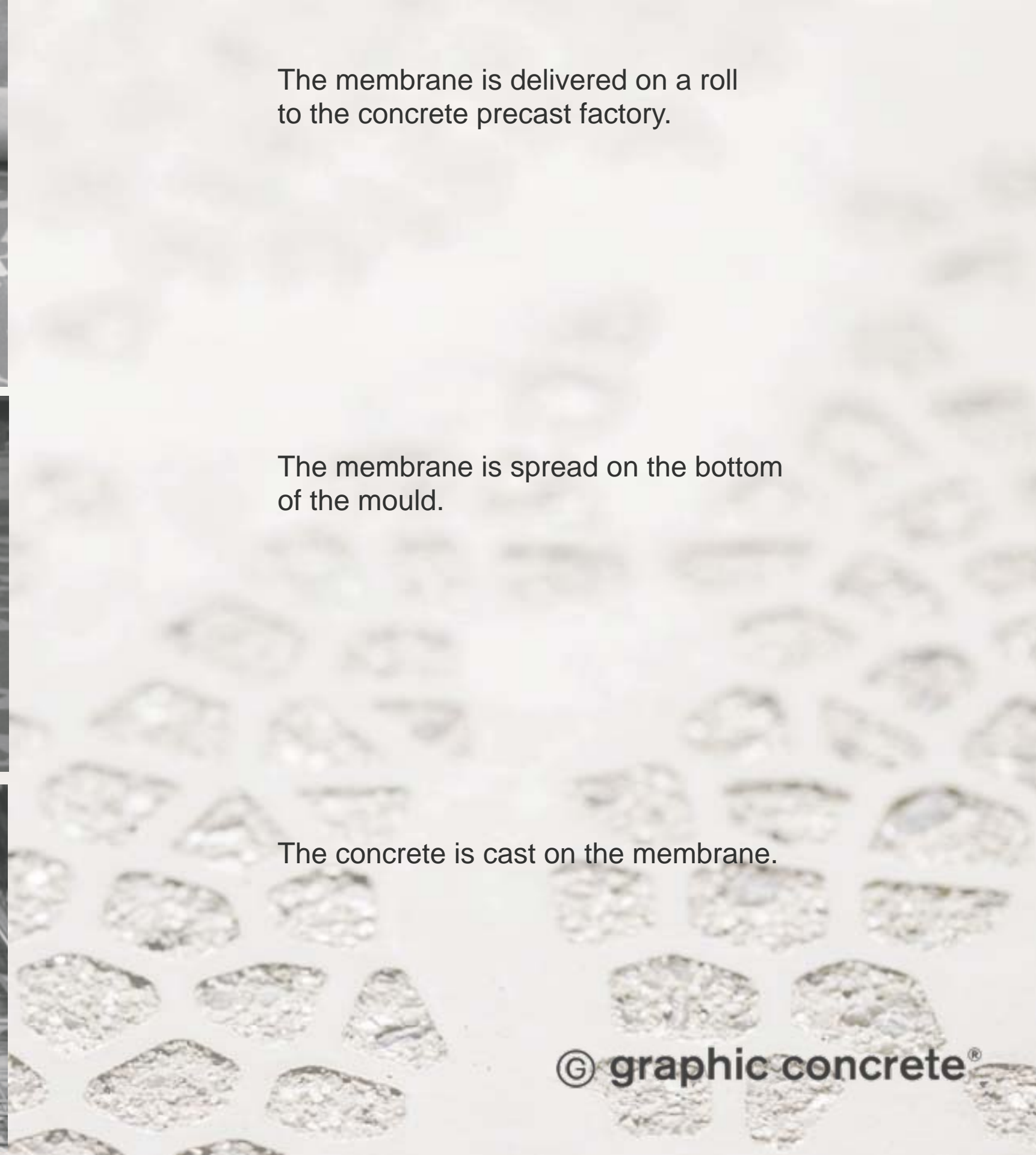
The membrane is delivered on a roll to the concrete precast factory.



The membrane is spread on the bottom of the mould.



The concrete is cast on the membrane.



© graphic concrete®



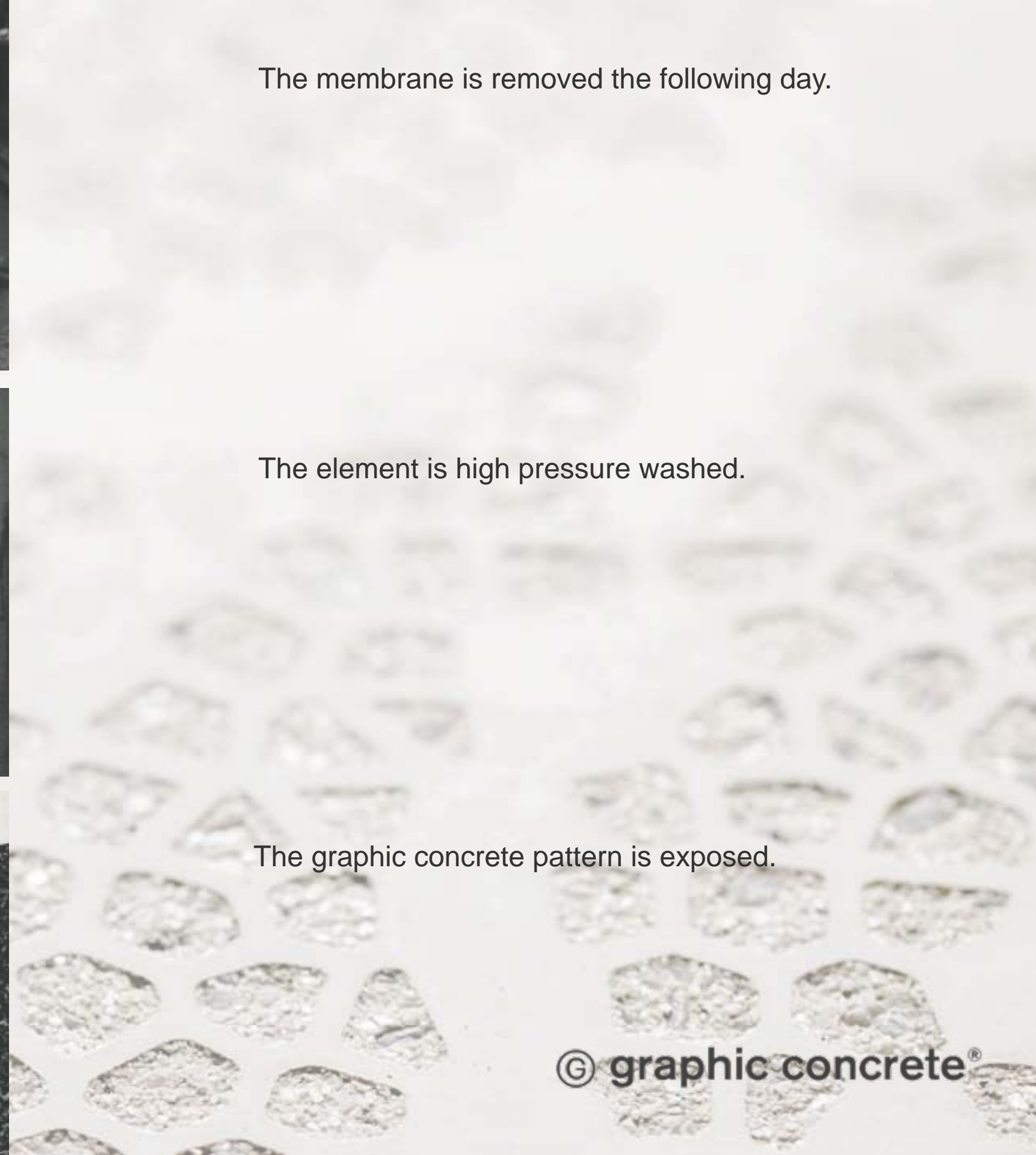
The membrane is removed the following day.



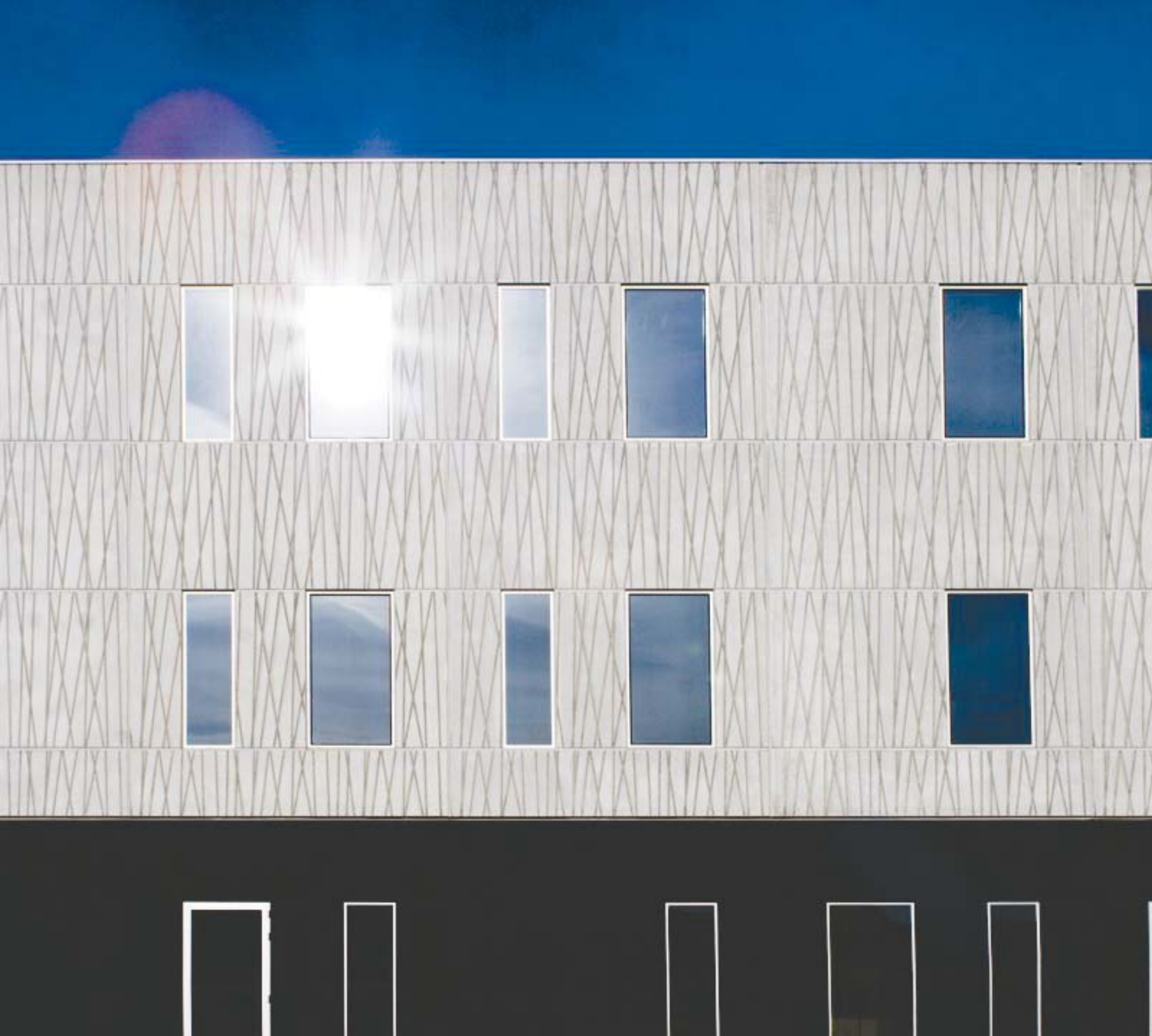
The element is high pressure washed.



The graphic concrete pattern is exposed.



© graphic concrete®



Ideal for
façades, partitions,
walls and slabs.

Office Building, Viborg, Denmark
GCCollection™ | Vertices





Easy and versatile to use

H.A.N.S. Industrial Building, Czech Republic
GCCollection™ | Atom Cross





Durable, genuine concrete

Kockums Park, Malmö
GCPTM

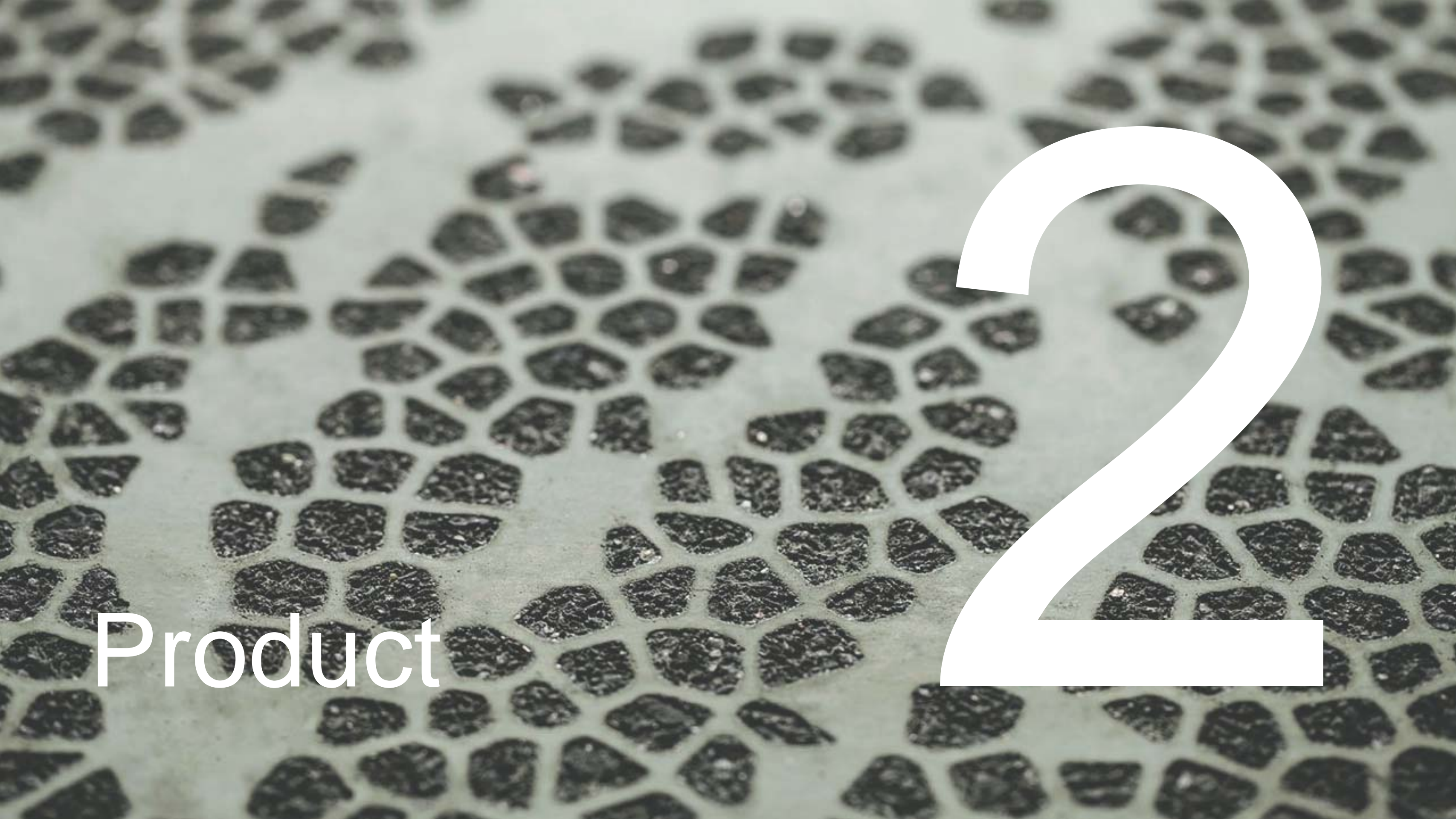




Reasonably priced solution

Derby Business Park, Espoo, Finland
GCPro™





2

Product

GCCollection™

Our own range of design patterns to enhance architectural features and add texture or visual details



GCPPro™

Unique patterns designed by architects and designers for specific projects



GCArt&Design™

Enables to transfer artwork or photographical images to be transferred to concrete surface



GCSmooth™

A beautiful velvety smooth and even concrete surface without pattern



GCCollection™

Our own range of design patterns to enhance architectural features
and add texture or visual details



GC Collection™

- versatile
- from timeless textures to dynamic designs
- compatible with other surface materials
- homogenous surfaces
- can be modified
 - scaled and/or rotated
 - project related details can be added

“ *Our ready-made patterns create attractive surfaces*



GCCollection™

Turtle nega

Lahden panimonaukio residential building,
Lahti, Finland







GCCollection™
Round rough

Attunda Tingsrätt,
Stockholm, Sweden



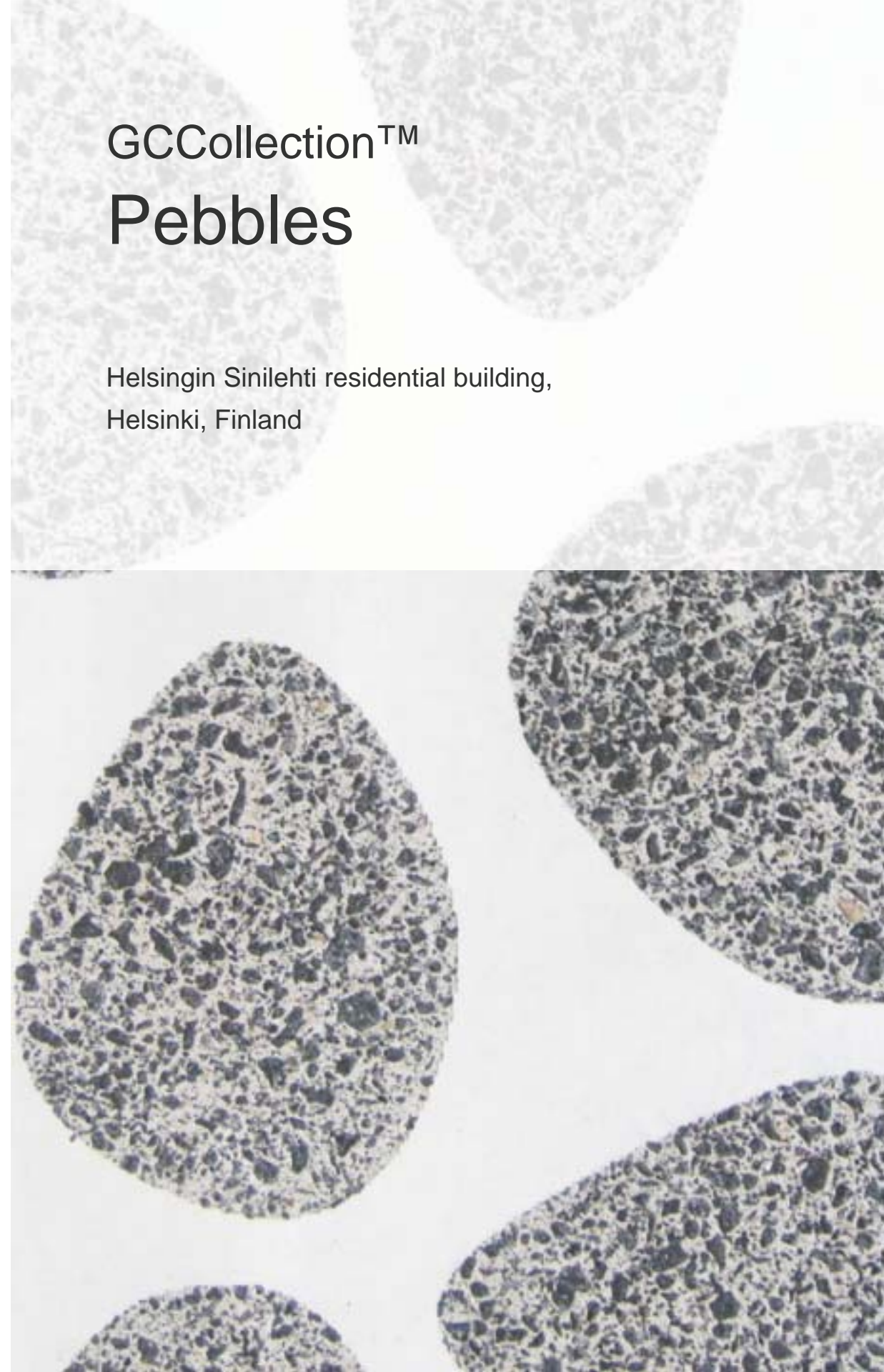




GCCollection™

Pebbles

Helsingin Sinilehti residential building,
Helsinki, Finland

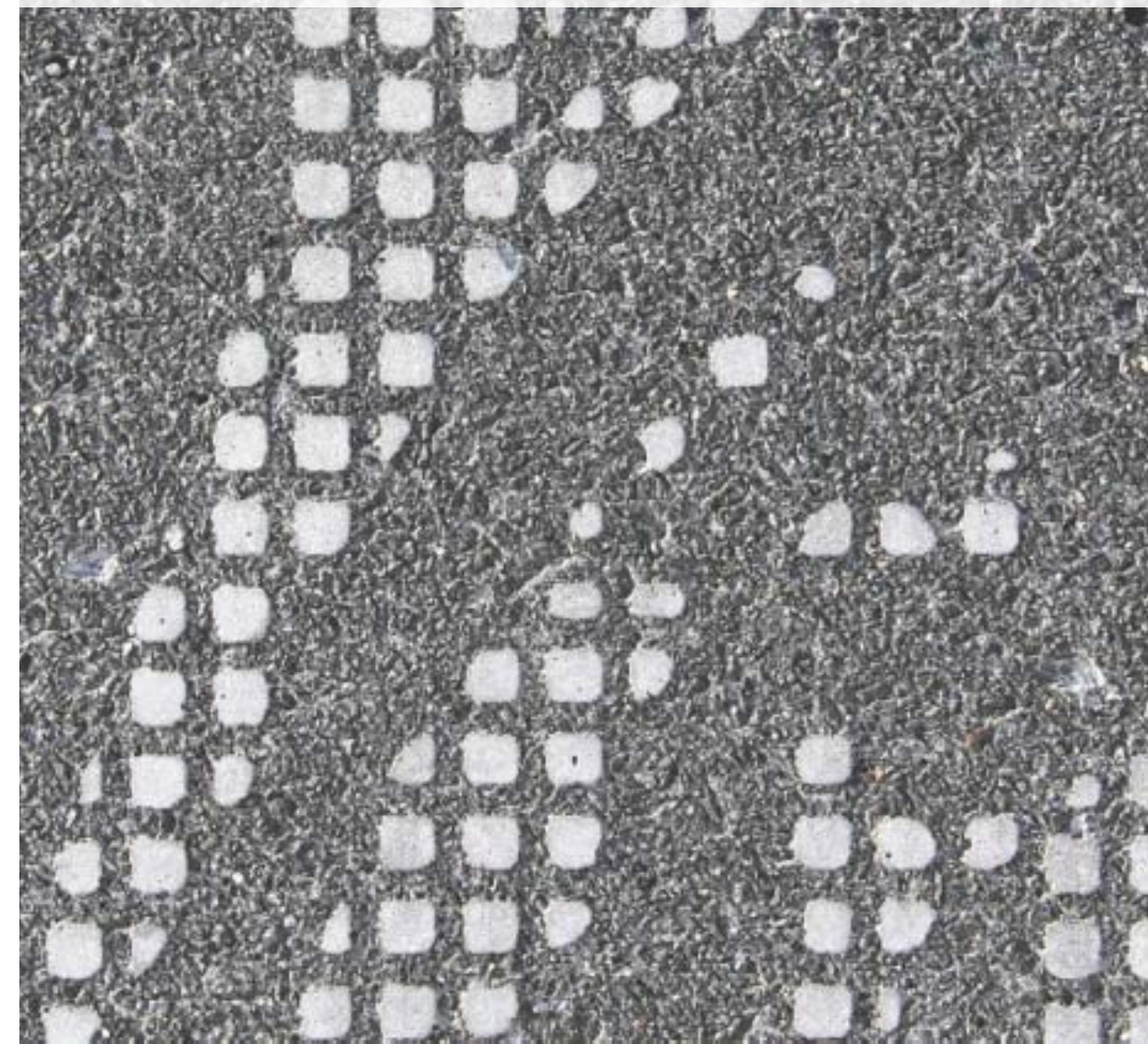


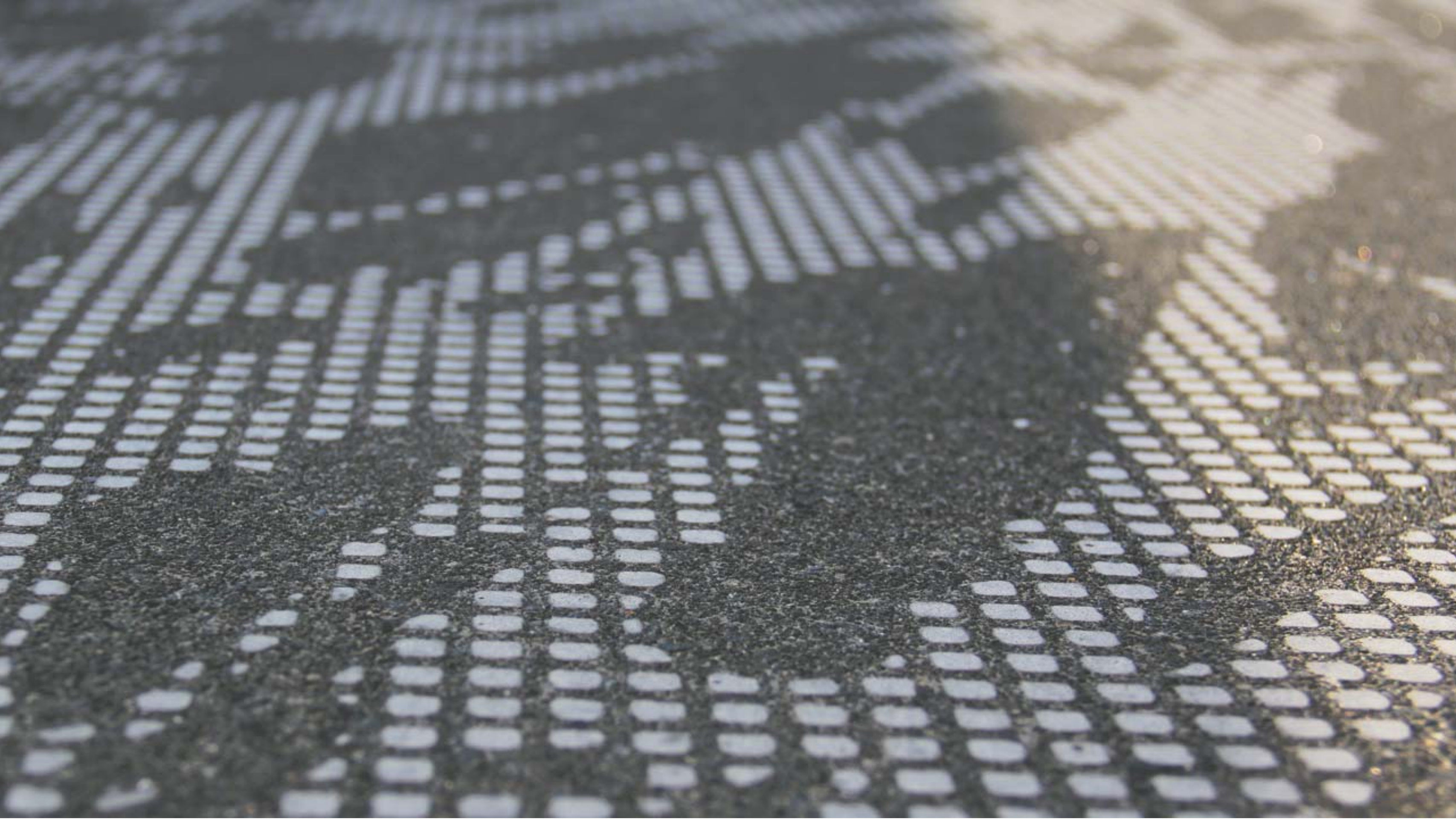




GCCollection™
Grass nega

Matinniitynkuja 2,
Espoo, Finland





GCP Pro™

Unique patterns designed by architects and designers
for specific projects

Josep Guinovart Primary School,
Castelldefels, Spain



GCP Pro™

- freedom of expression
- history or location of the building can be made visible
- surface to match the architecture

“ *Vision made visible*



GCP^{Pro}™

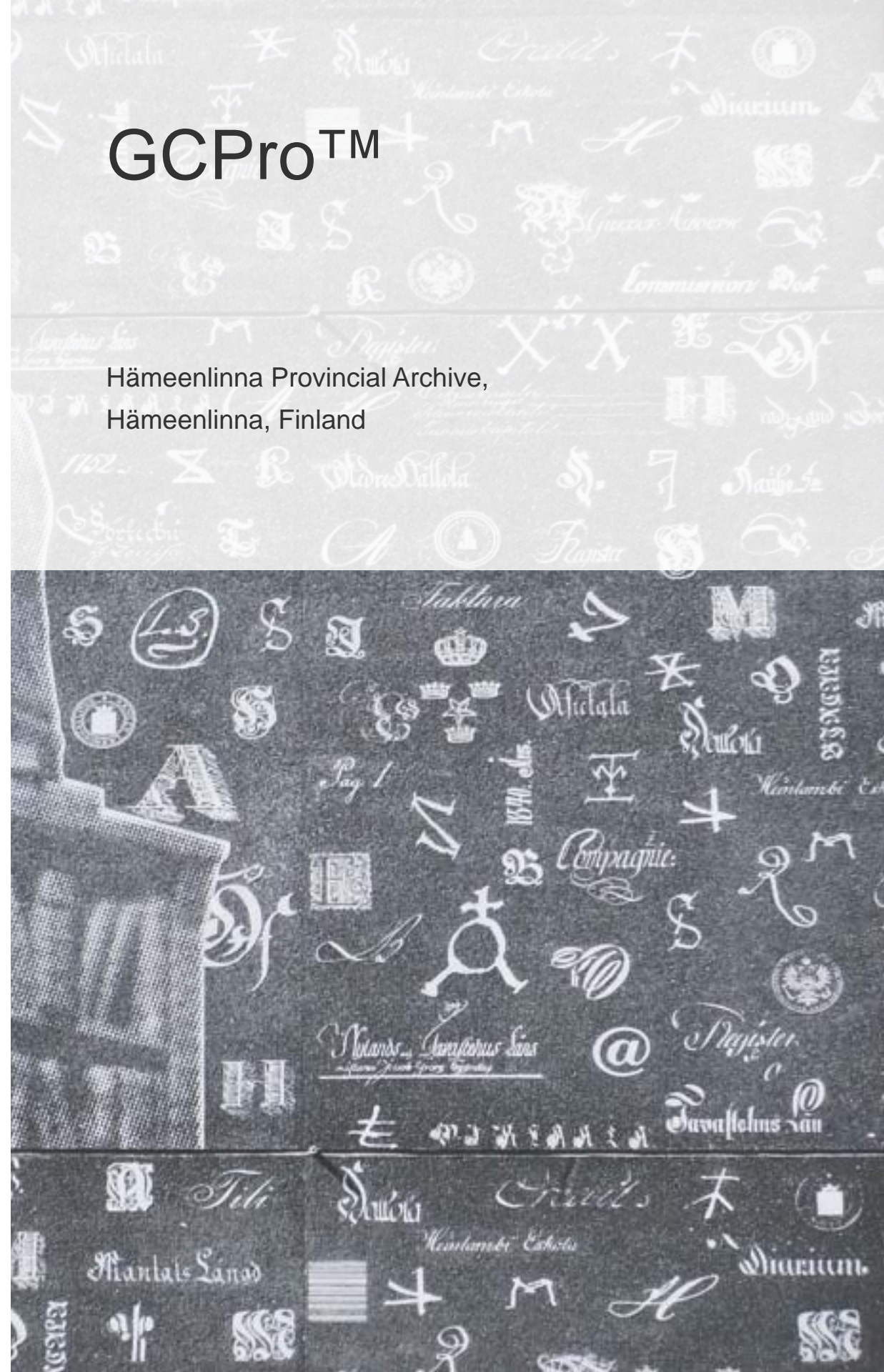
Skanska Headquarters,
Helsinki Finland





GCP Pro™

Hämeenlinna Provincial Archive,
Hämeenlinna, Finland







GCP^{Pro}TM

Enjoy Concrete,
Veurne, Belgium







GCPPro™

Kockums Park,
Malmö, Sweden







GCPPro™

Marguerites residential building,
Paris, France

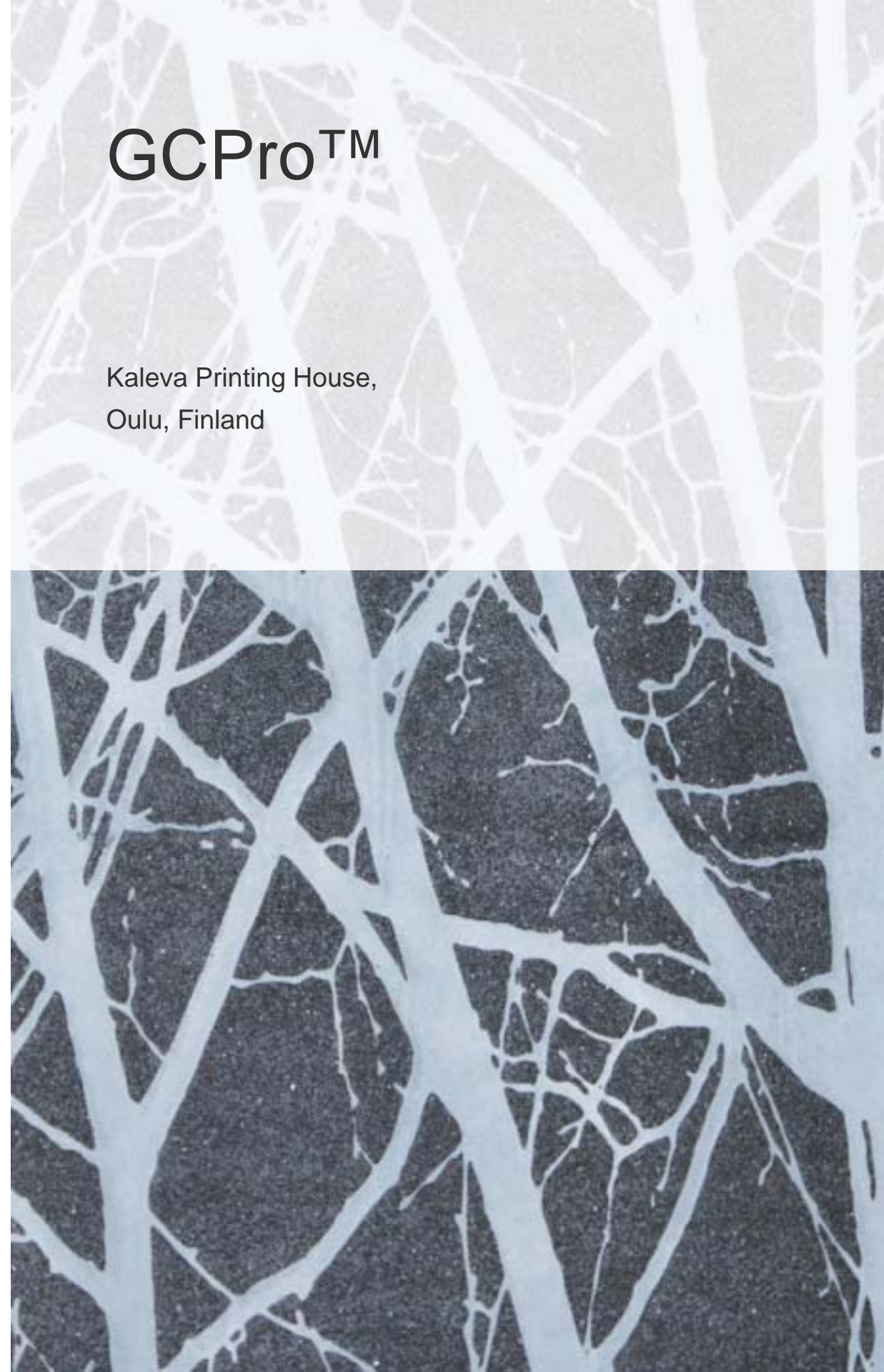






GCP^{Pro}™

Kaleva Printing House,
Oulu, Finland





GCArt&Design™

Enables to transfer artwork or photographical images to be transferred to concrete surface

Chiesa Beato Papa Giovanni XXIII,
Bergamo, Italy



GC Art&Design™

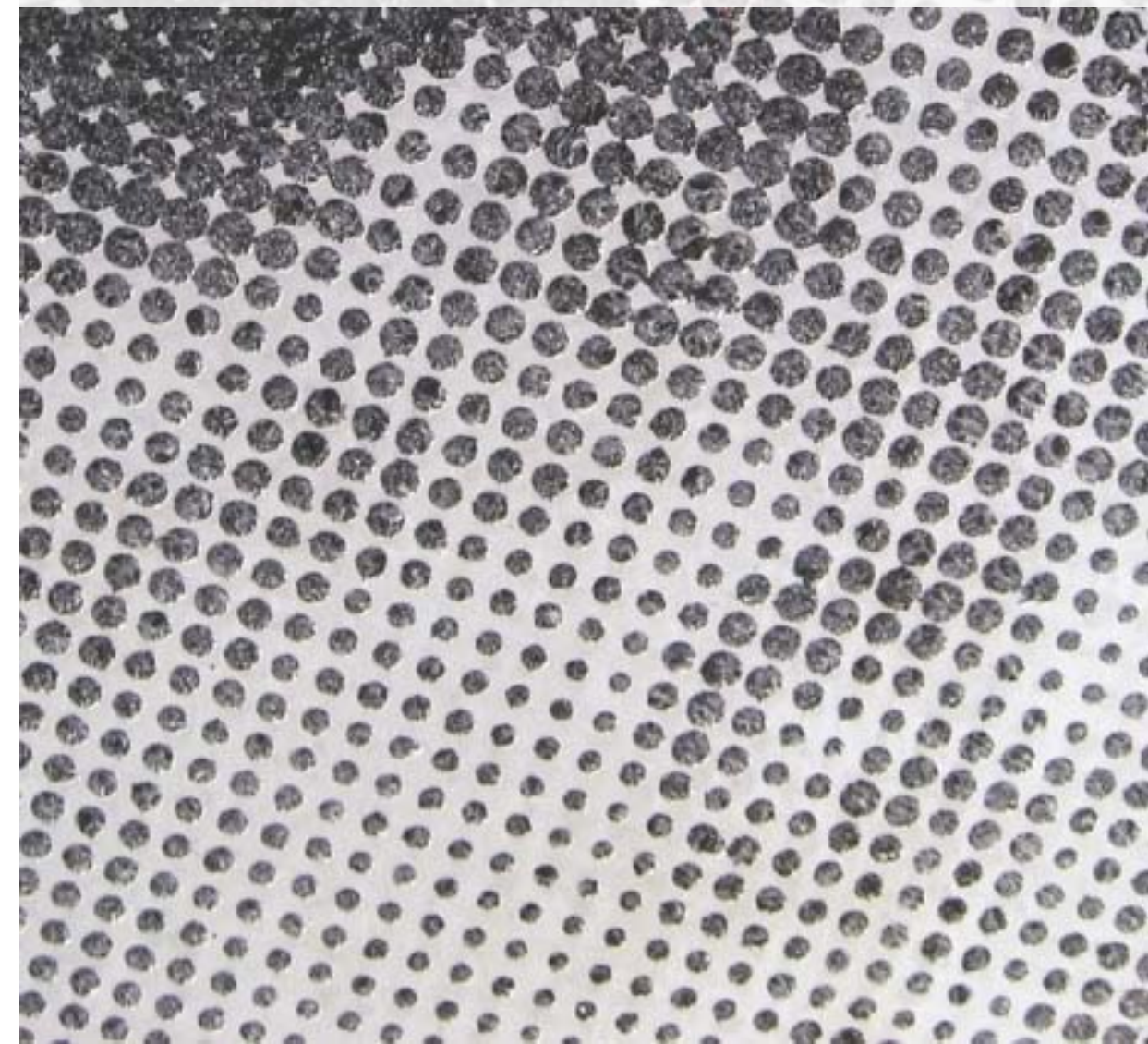
- raster images and artworks
- one image, no repetition
- history, location or function of the building can be made visible

“ *Works of art made
concrete*



GC Art&Design™

Alber Edelfelt School,
Porvoo, Finland

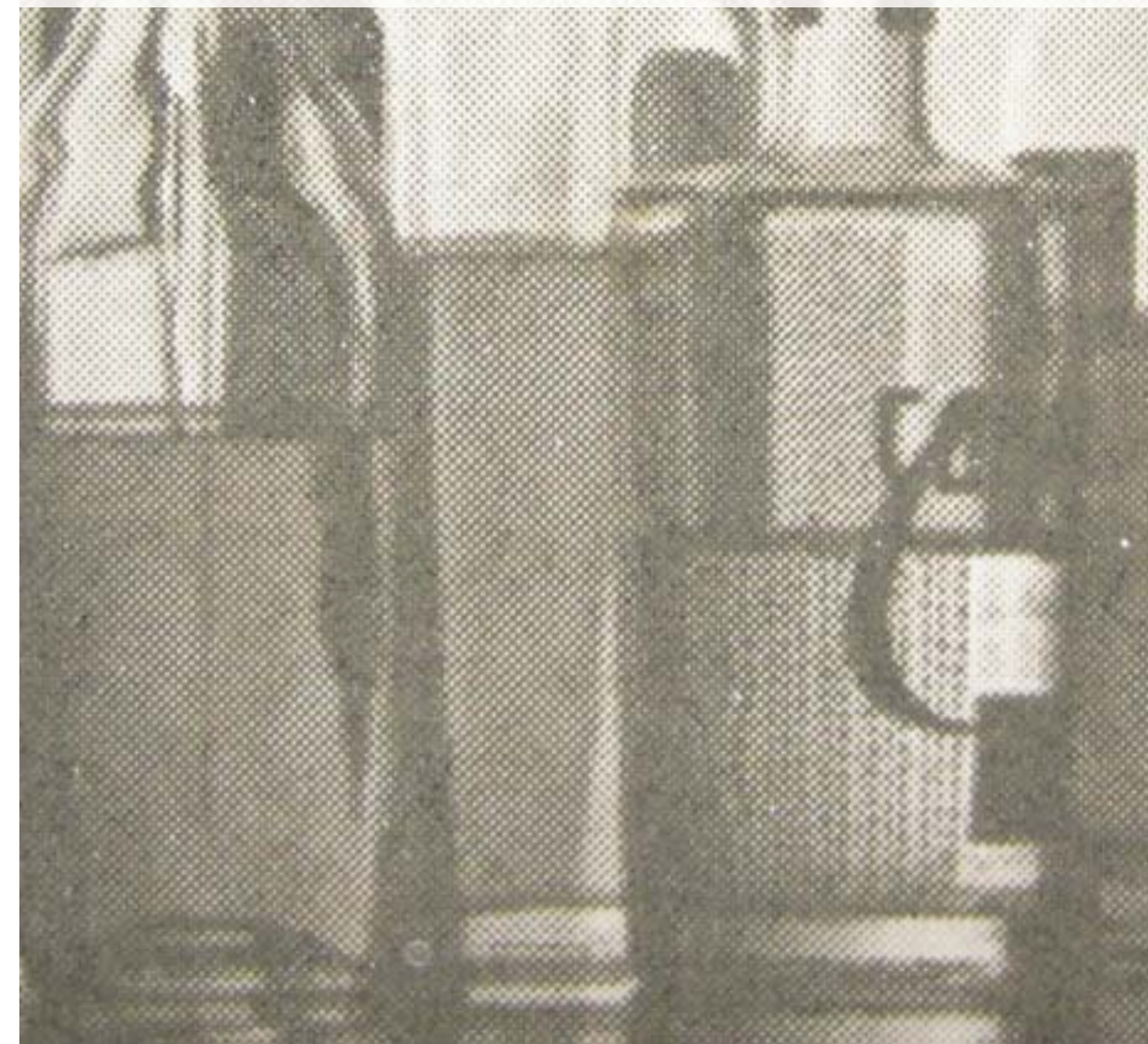






GC Art&Design™

Slaur Distillery,
Le Havre, France







GC Art&Design™

SC Johnson Memorial Building,
Racine, Wisconsin, USA



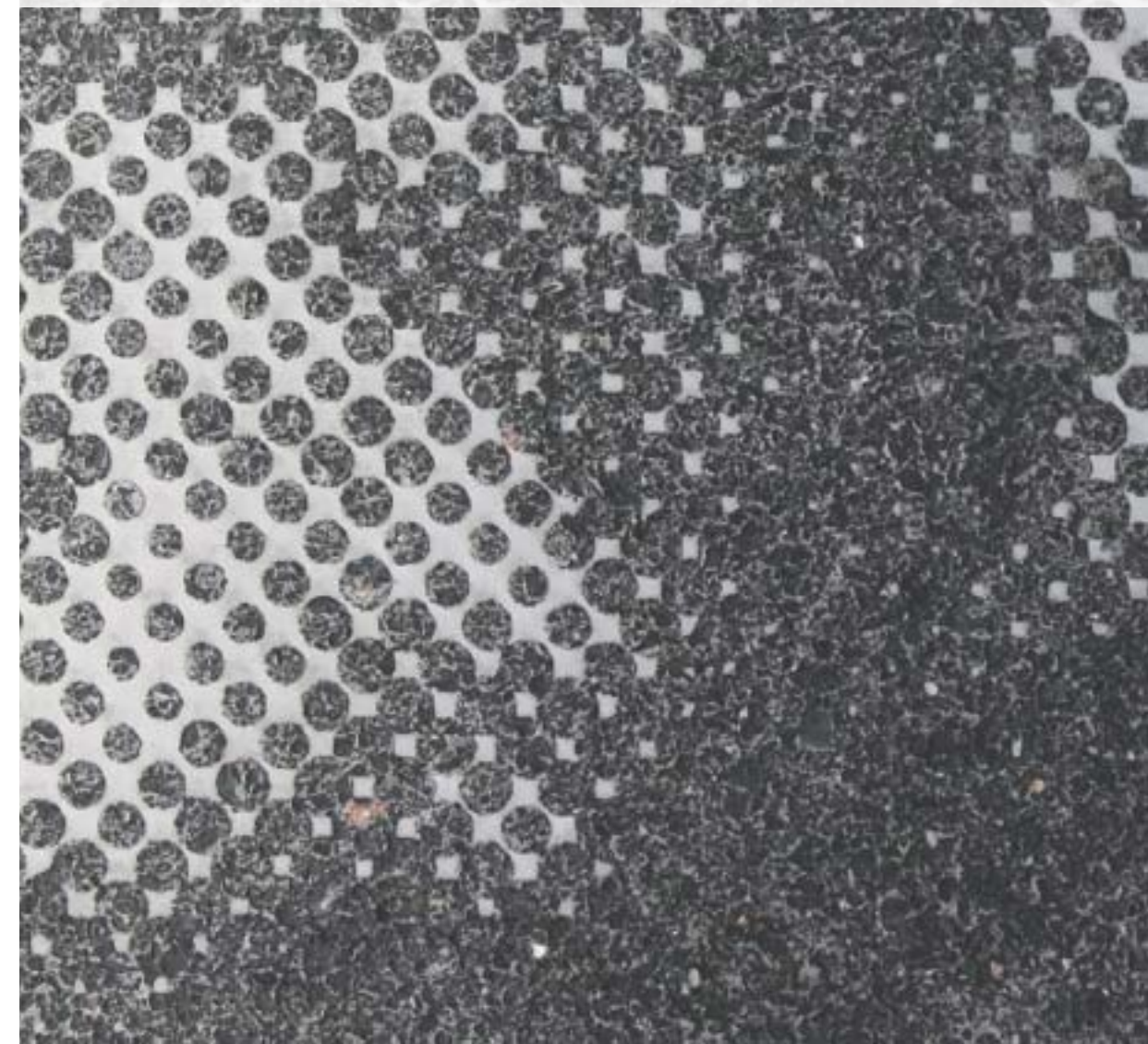


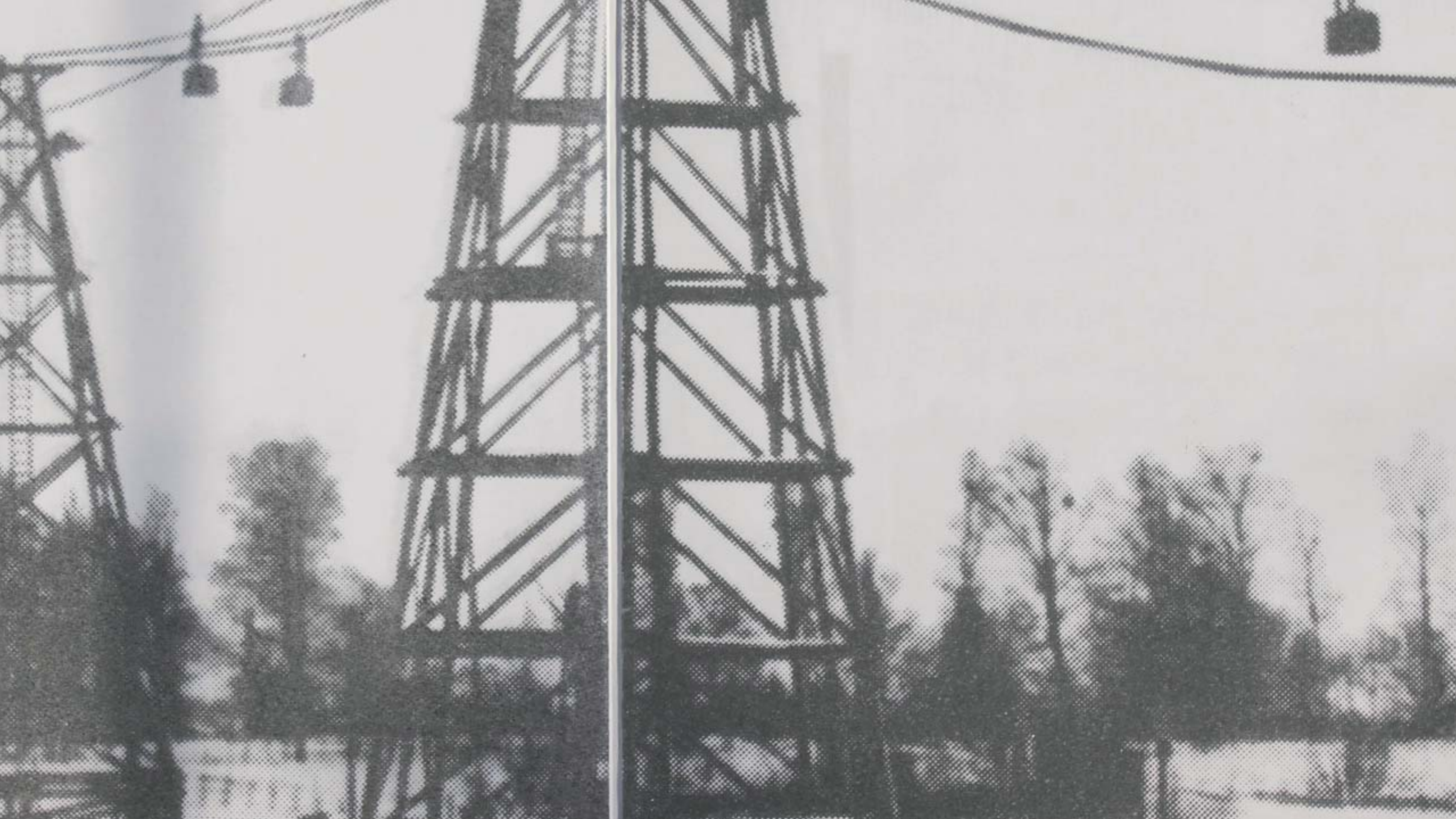
...BREITHAUT · CHANDLERSON · MILWAUKEE · EVANSVILLE · ATLANTA · JACKSONVILLE · TAMPA · MIAMI · ...



GC Art&Design™

The Provincial Museum of Tornio Valley,
Tornio, Finland





GCSmooth™

A beautiful velvety smooth and even concrete surface without pattern

Länsisatamankatu 23 residential building,
Helsinki, Finland





GCSmooth™

Länsisatamankatu 23 residential building,
Helsinki, Finland





GCSmooth™

Liberty Square,
Tallinn, Estonia





3

Design

A tool for architects and designers

- a tool to create visually creative concrete surfaces
- a tool to visualise the unique features of the building
 - location
 - history
 - function
- a tool to emphasise architectural features
- a tool to add visual interest in a cost effective way

“ *We wish to
bring your
vision to life*

Things to consider in the design process

- Viewing distance
- Scale
- Contrast
- Color

“ *We advise and help throughout the design process.*



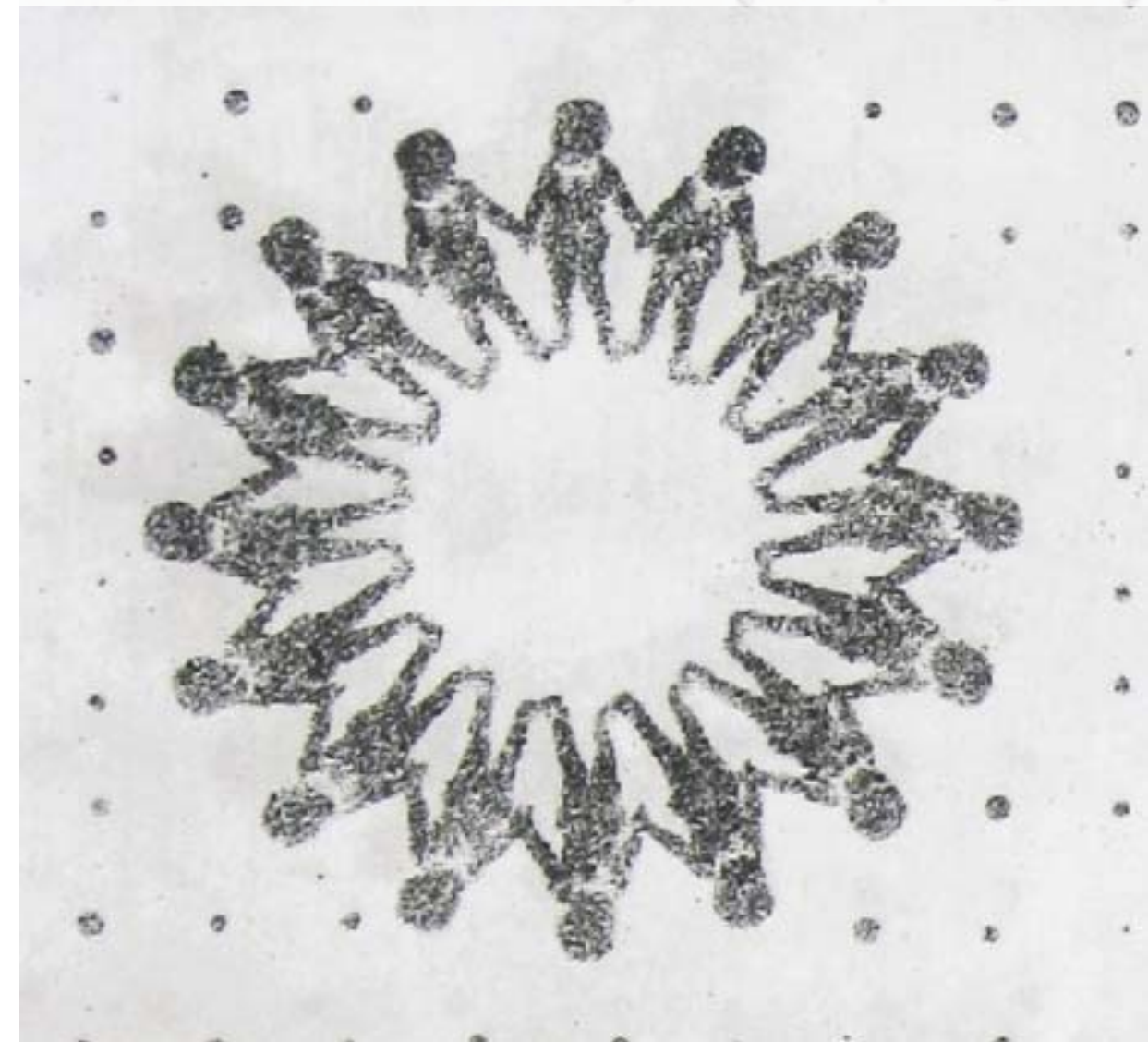
Viewing distance

Attunda Tingsrätt,
Stockholm, Sweden



Viewing distance

Frölunda Shopping Centre,
Gothenburg, Sweden





Viewing distance

Skanska Headquarter Finland,
Helsinki, Finland





Scale

Espoon Sellonhuippu residential building,
Espoo, Finland





Contrast

Discreet

White cement – white aggregates

Derby Business Park,
Espoo, Finland





Contrast

Discreet

White cement – white aggregates

Marguerites,
Paris, France



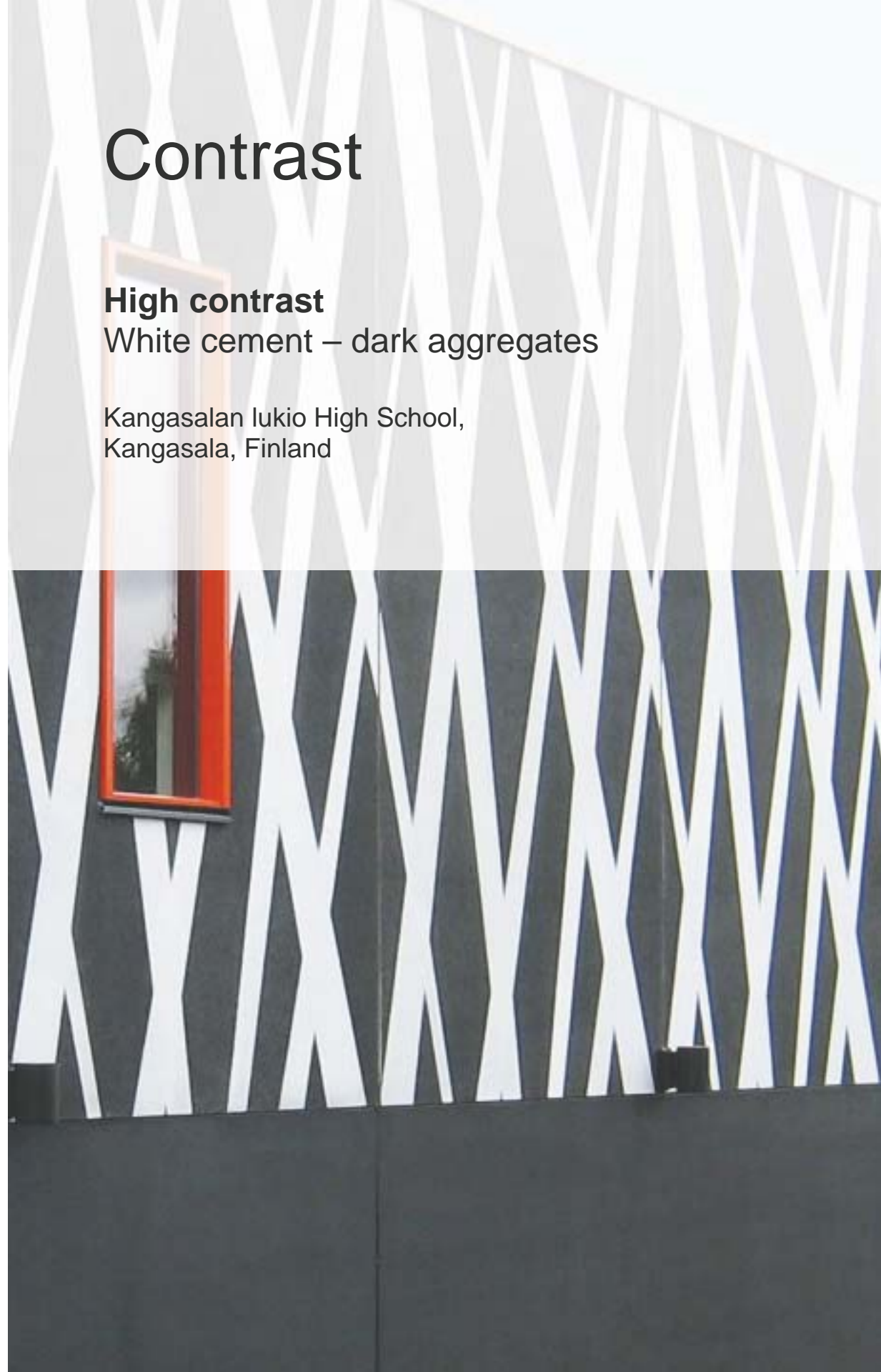


Contrast

High contrast

White cement – dark aggregates

Kangasalan lukio High School,
Kangasala, Finland



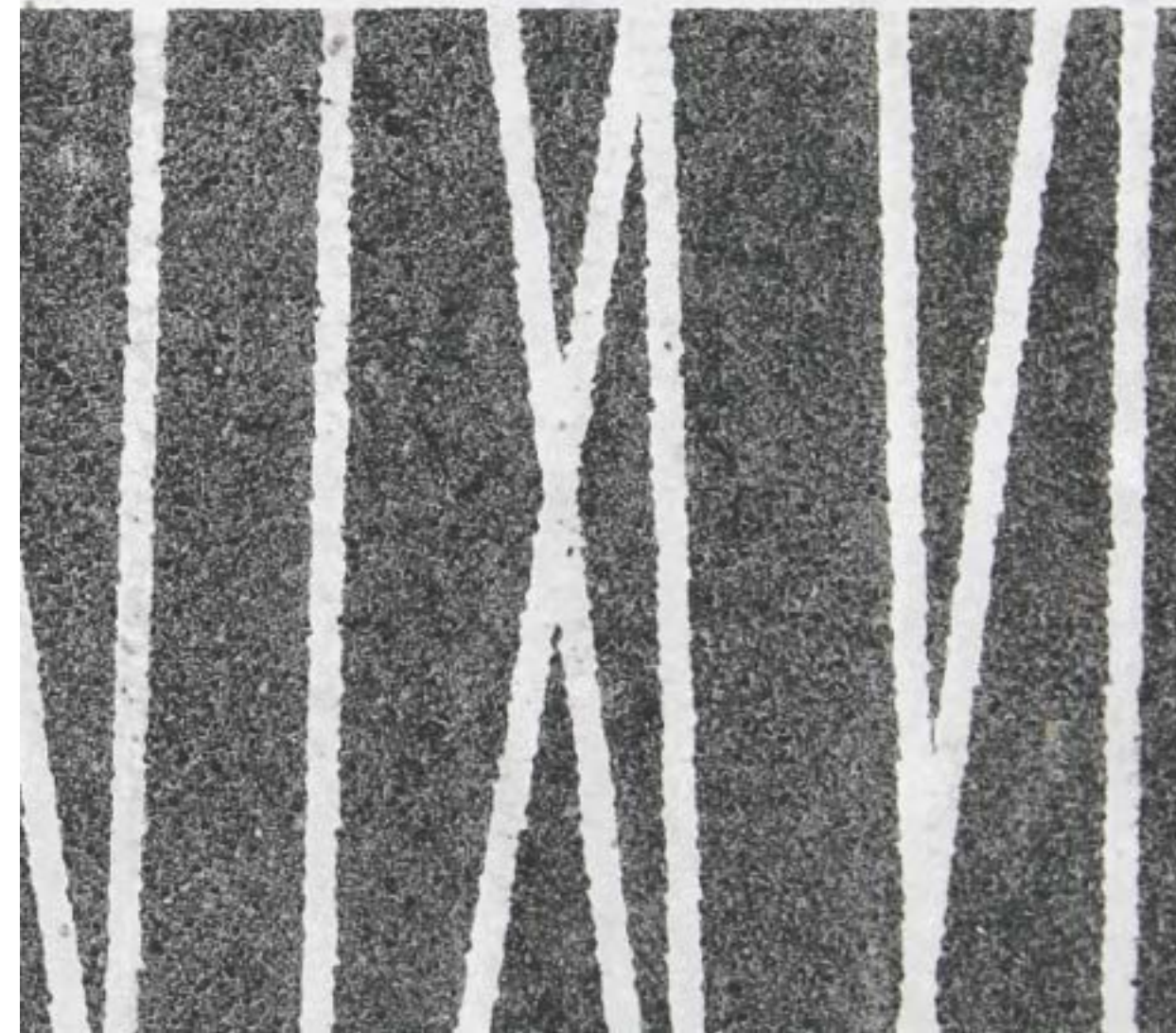


Contrast

High contrast

White cement – dark aggregates

Leppäviidan pysäköinti parkinghouse,
Espoo, Finland

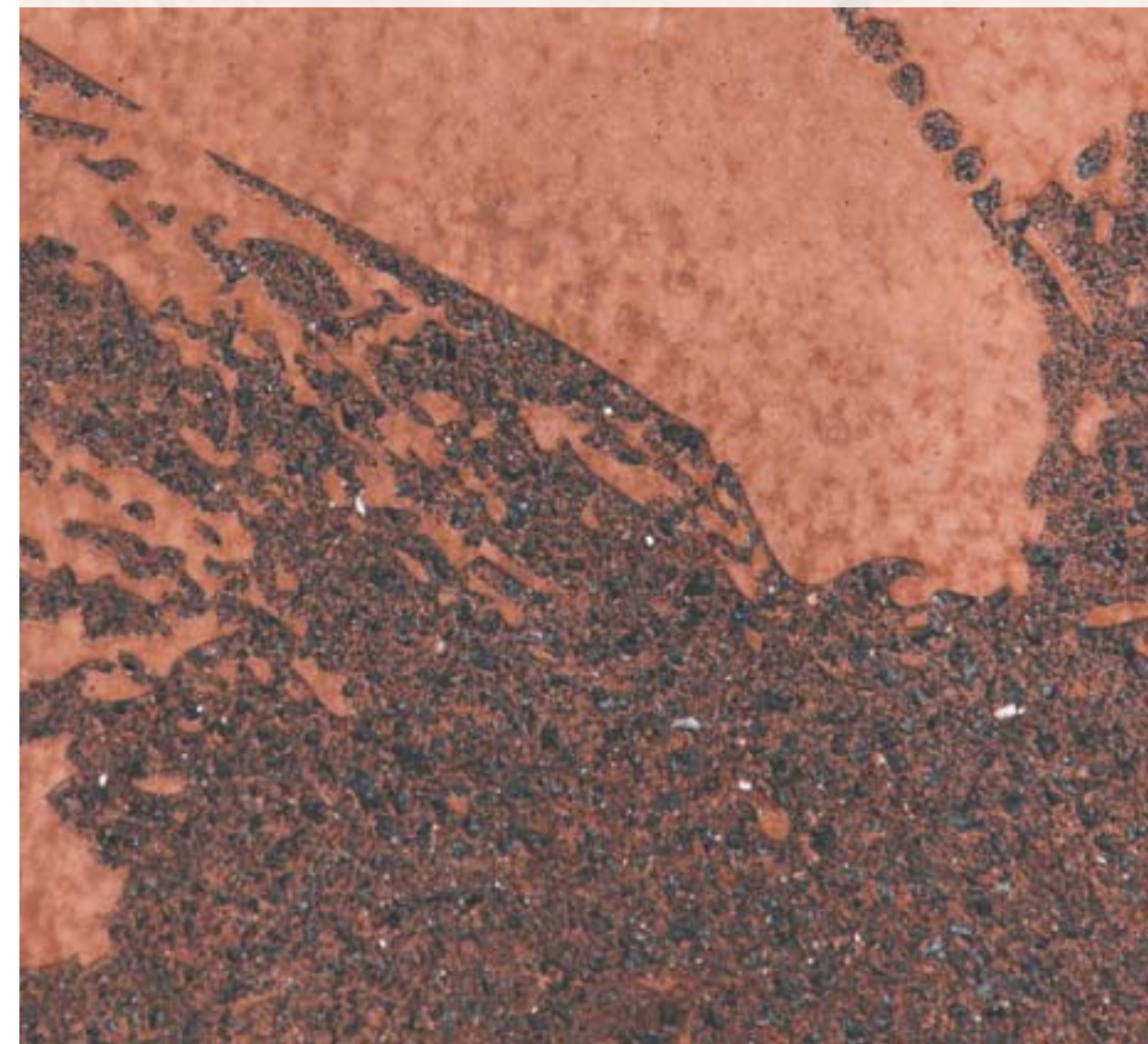




Color

Pigmented cement – black aggregates

Vantaan Kirjosiipi residential building,
Vantaa, Finland





Color

Pigmented cement – various aggregates

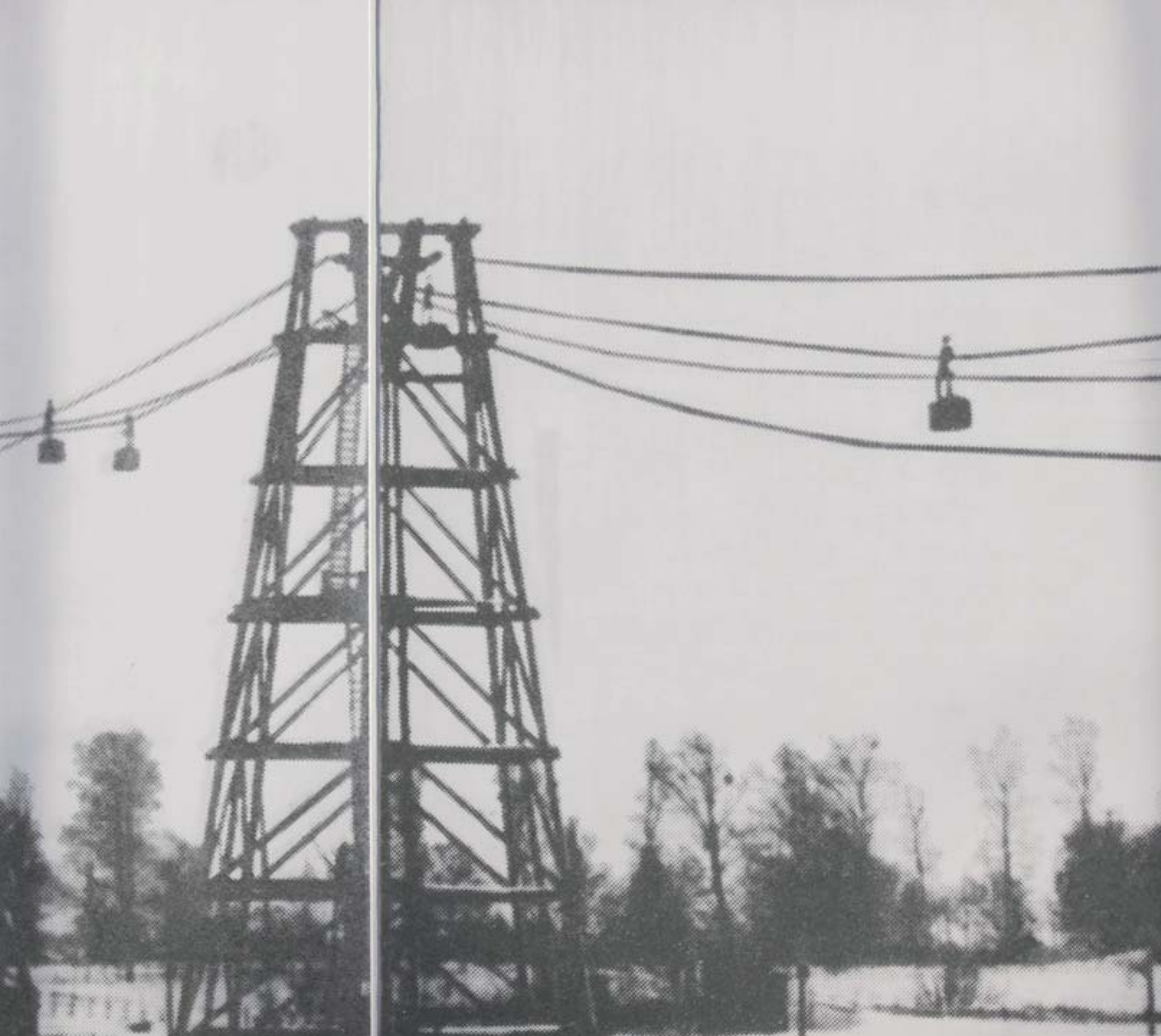
H.A.N.S. Industrial building,
Čeperka, Czech Republic



Raster or vector?

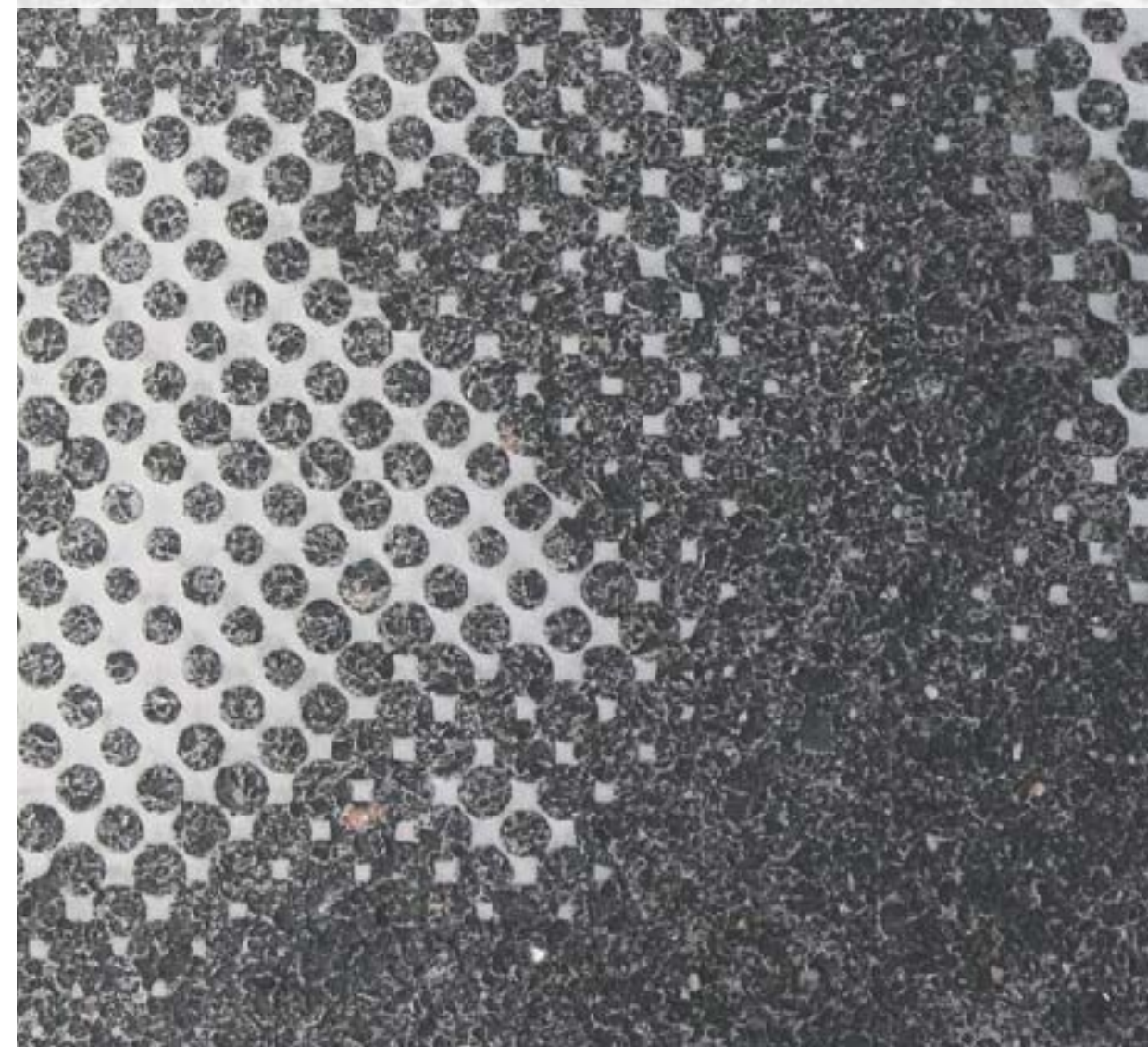
- Raster – for creating photographic images
 - round
 - line
 - make up your own raster – anything you like!
- Vector – for creating illustrated images or patterns
 - sharp edges
 - silhouettes
 - drawn illustrations
 - text and numbers
- Combining raster and vector

“ *Consider and try out different options to find the best solution for your project*



Rasterising

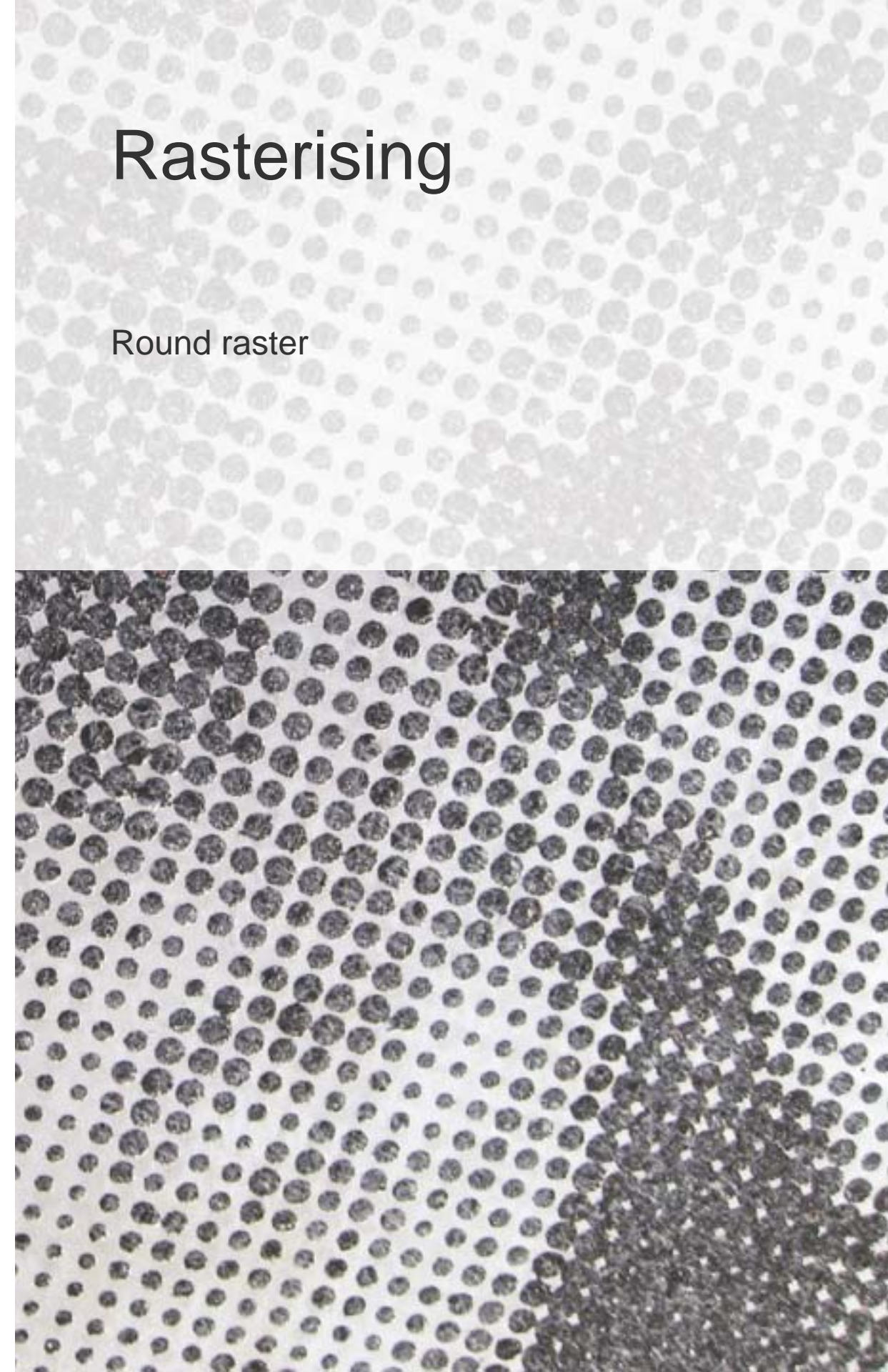
Round raster





Rasterising

Round raster





Rasterising

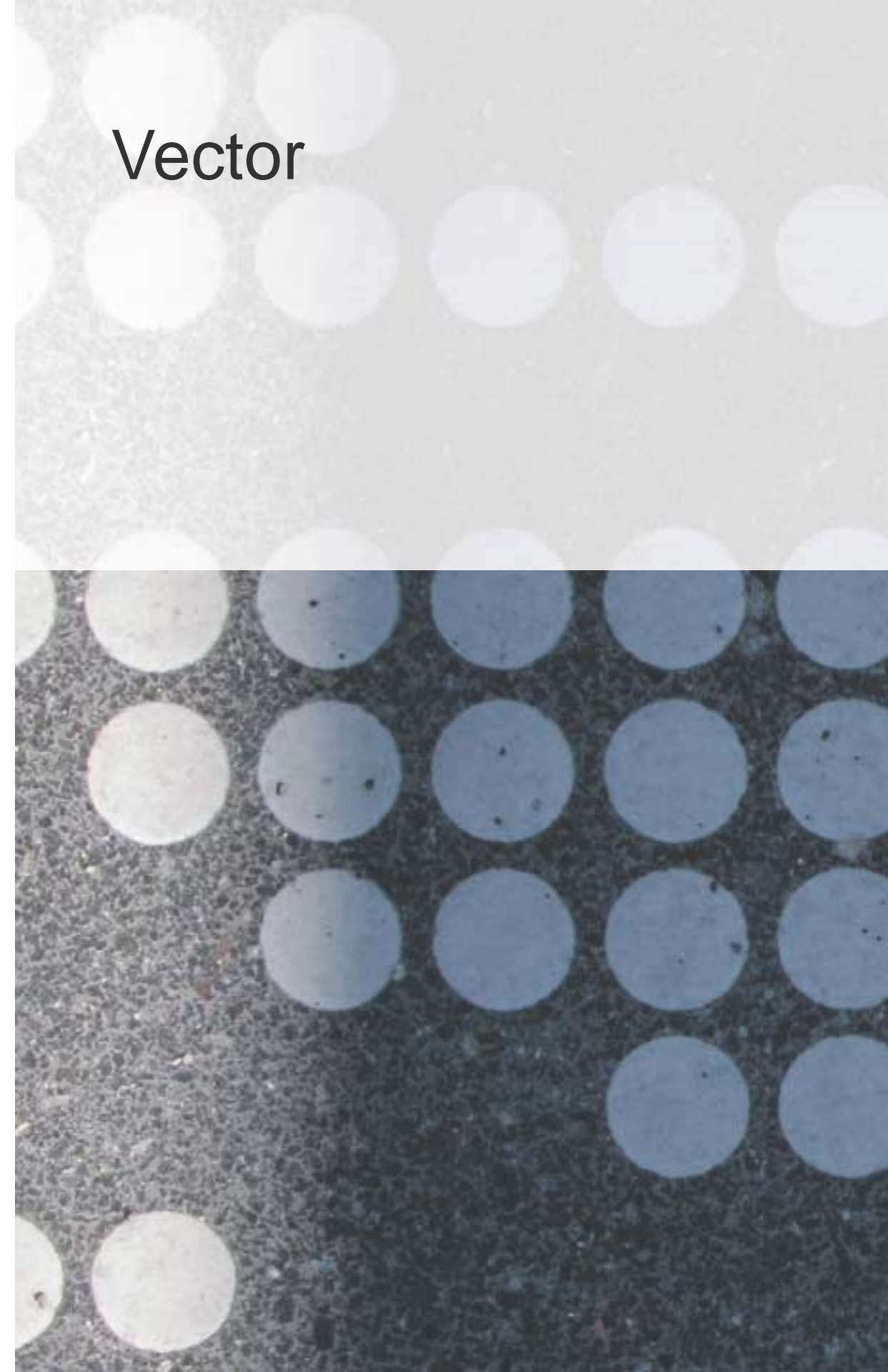
Line raster





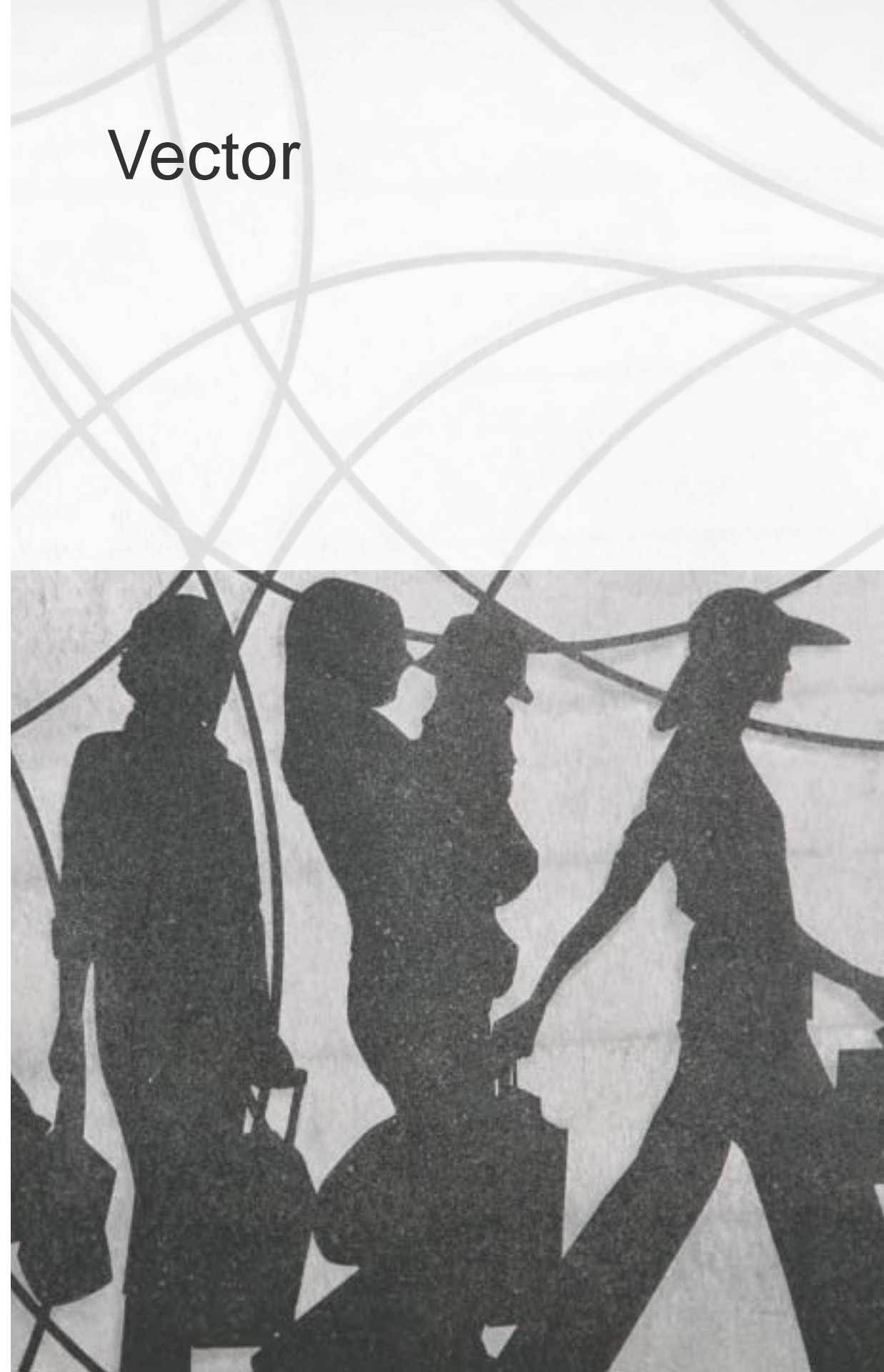
Vector





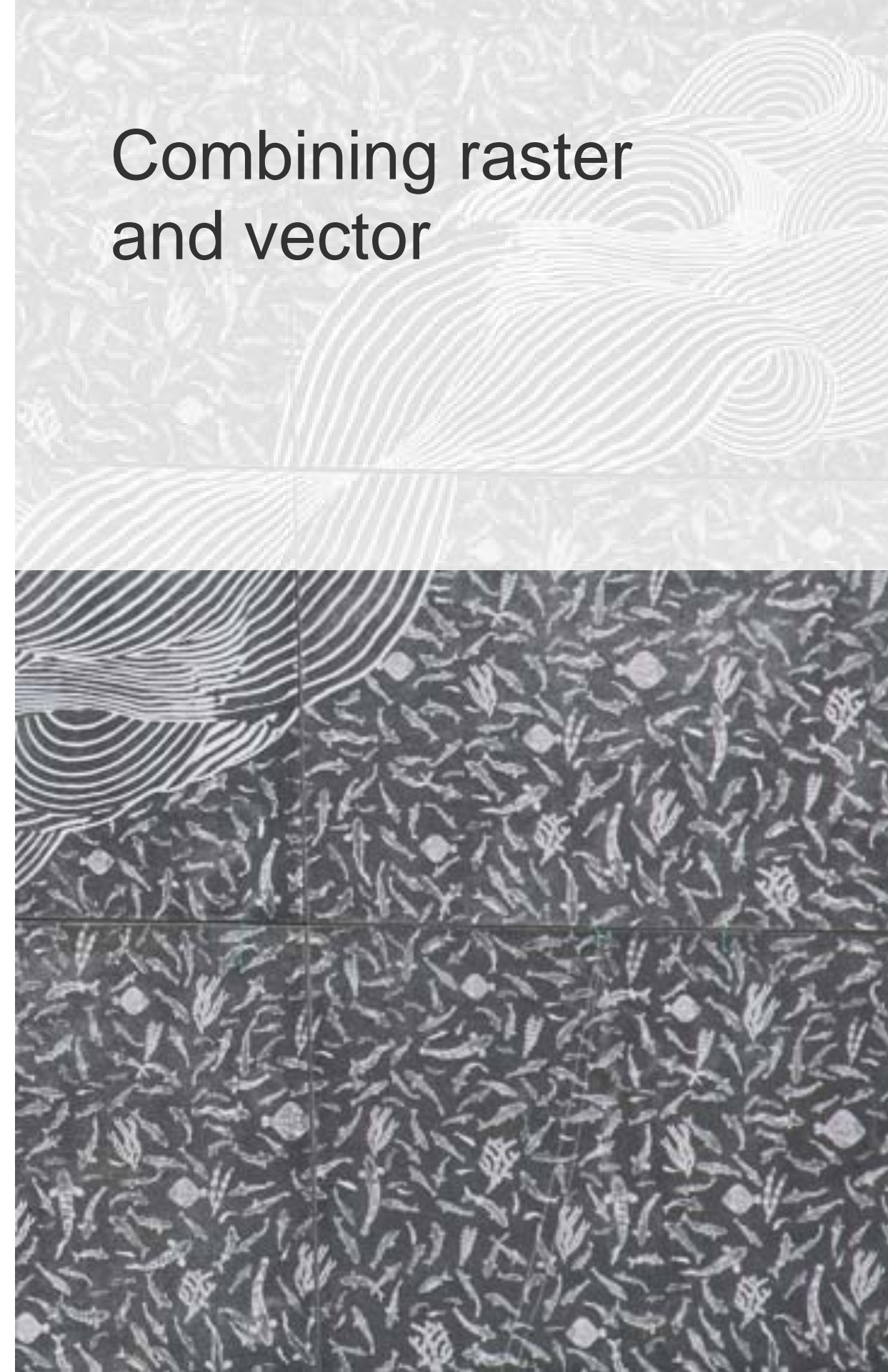


Vector



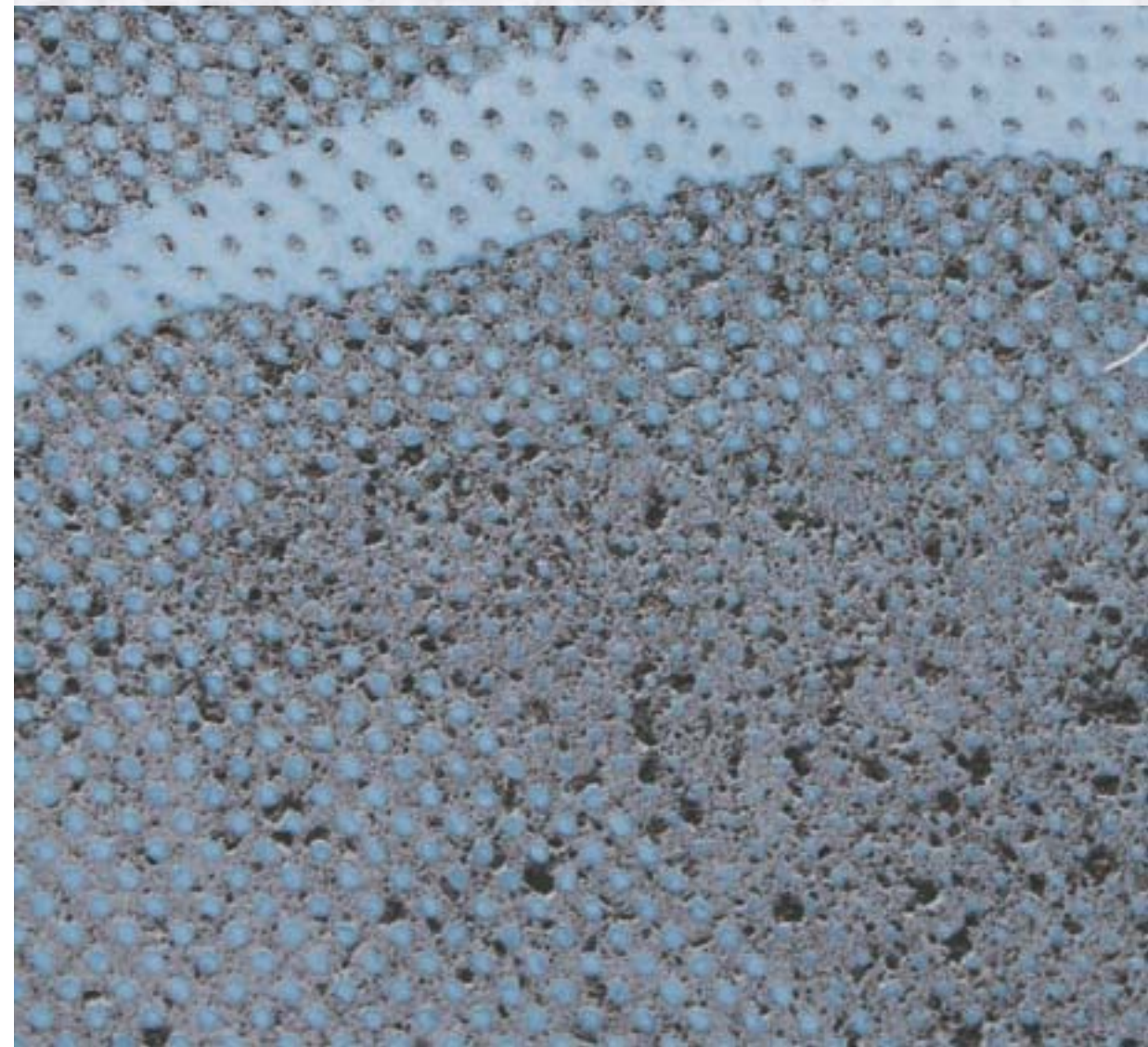


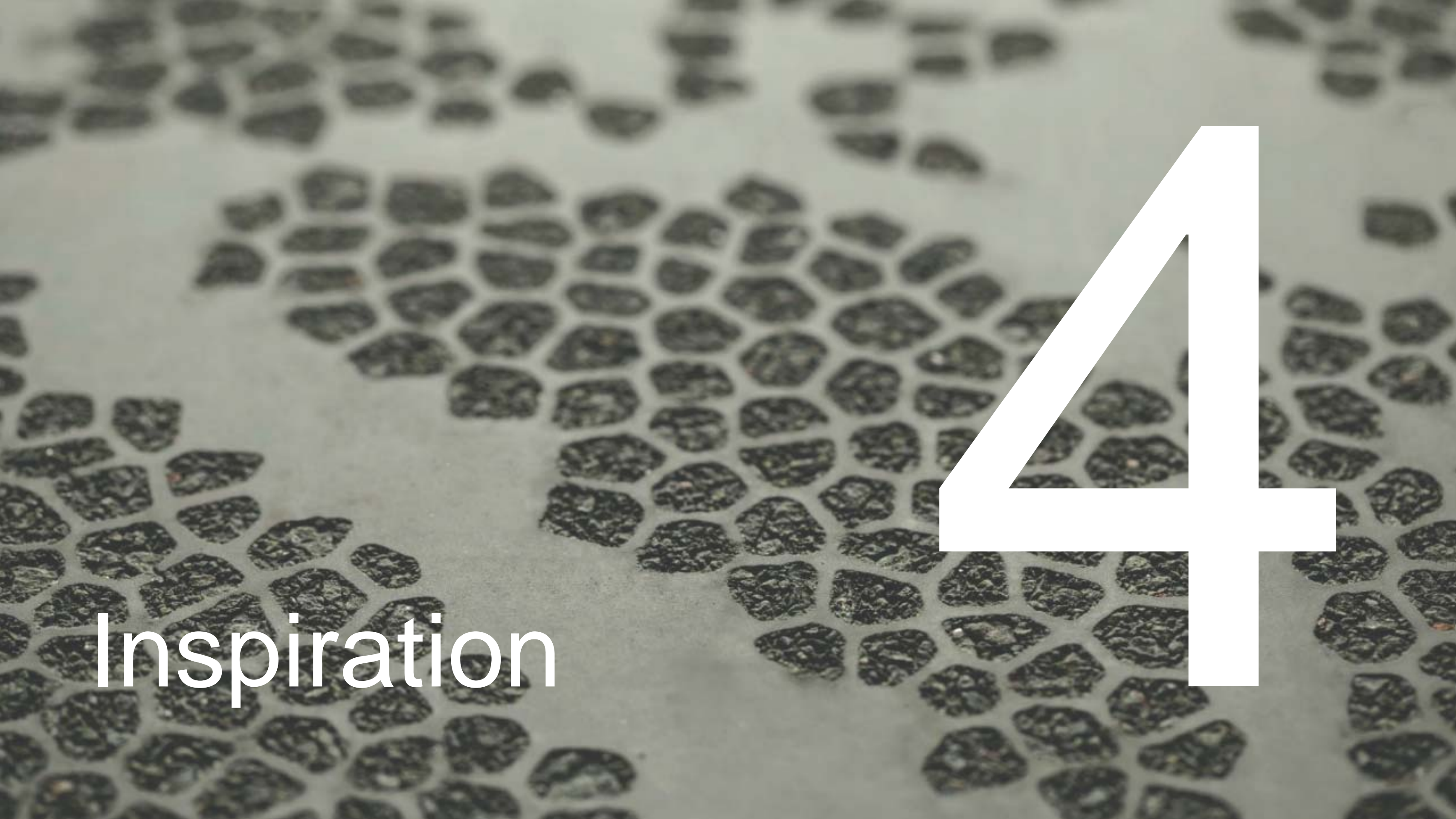
Combining raster and vector





Combining raster
and vector





4

Inspiration



Confac
GCPro™

Industrial
Arkitema Aarhus K/S Aarhus
CONFAC A/S

2010
Randers, Denmark

© **graphic concrete**®

Birch tree forest

The inspiration for the CONFAC factory building in Denmark was a birch tree forest. The image below was the basis for the pattern.











Hämeenlinna

Provincial Archive

GPro™

Public

Heikkinen-Komonen Architects

Parma Oy

2009

Hämeenlinna, Finland

© graphic concrete®

Letter A

From the prologue of
“Harmonia quatuor
Evangelistarum Harmonia
quatuor Evangelista, a Mart.
Chemnitis inchoate et Poly-
carpo Lysero continuata”
(Johannes Gerhard) printed
in 1652.



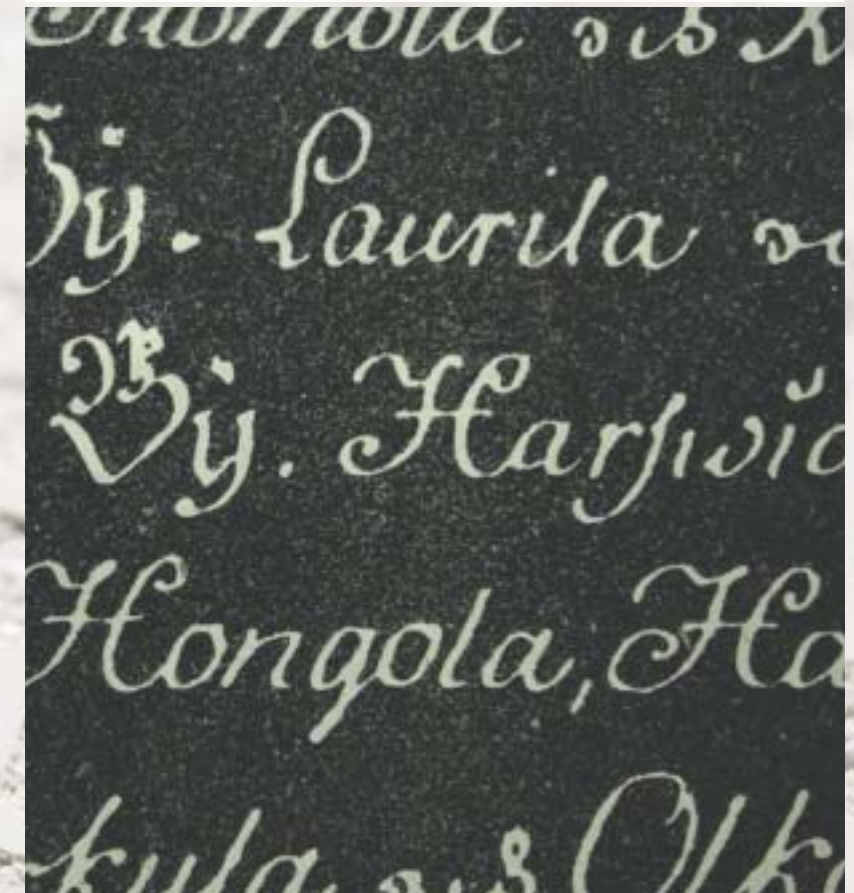
Finnish Maiden

Centre figure of statue
symbolising the mission of the
National Archives by Carl
Eneas Sjöstrandin (1889)



Texts

Detail of a contract written on
pergament from 1791





Mantals Längd

Companie

Ordi

Commissioren Doct

Register

Register

Neder Dillola

Neder Dillola

A

Fabbrica

D

Officiale

Page 1

Page 1

Fabbrica

Nederlands

Page 1

@

Compu

Carastelus







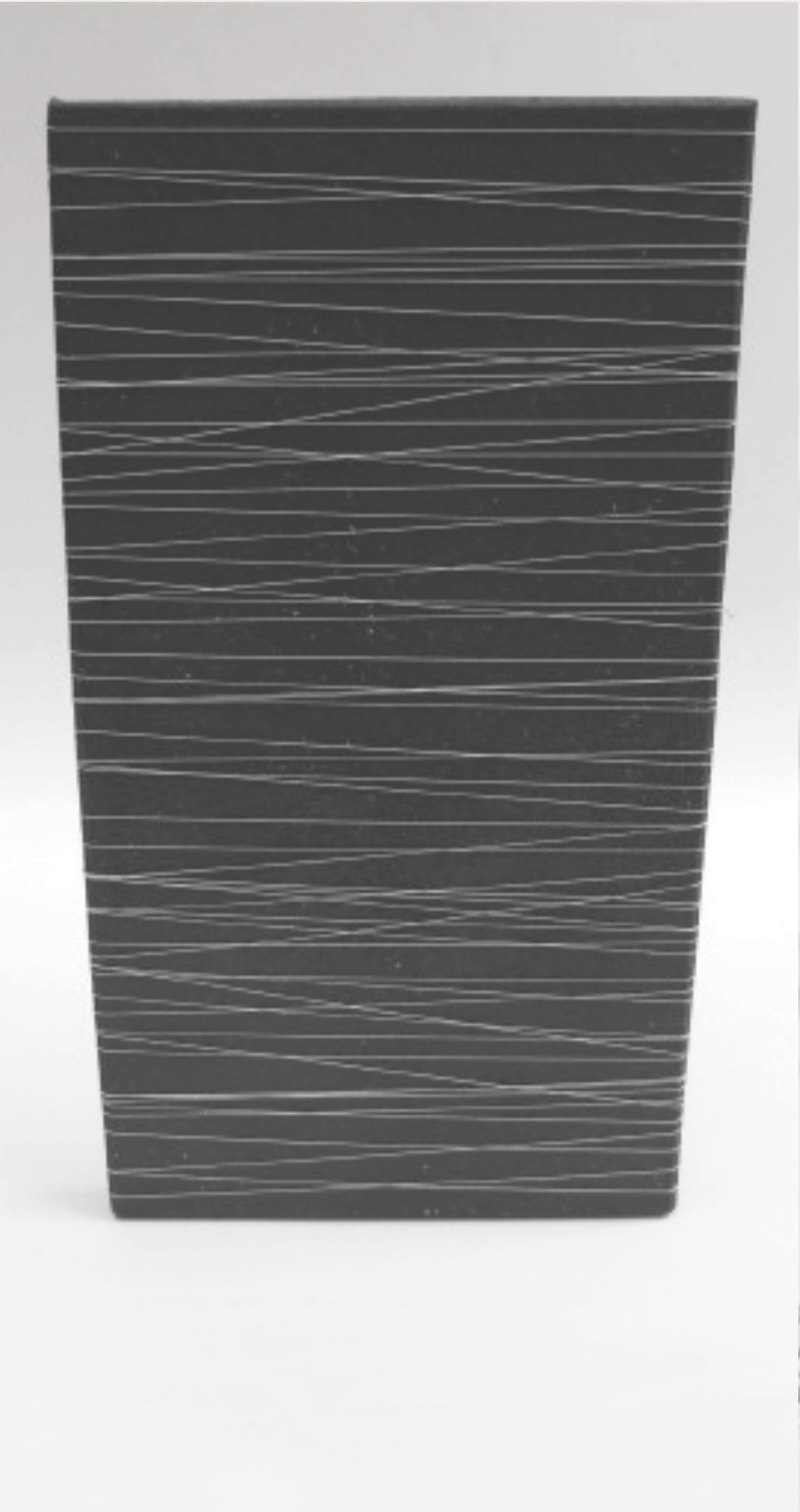
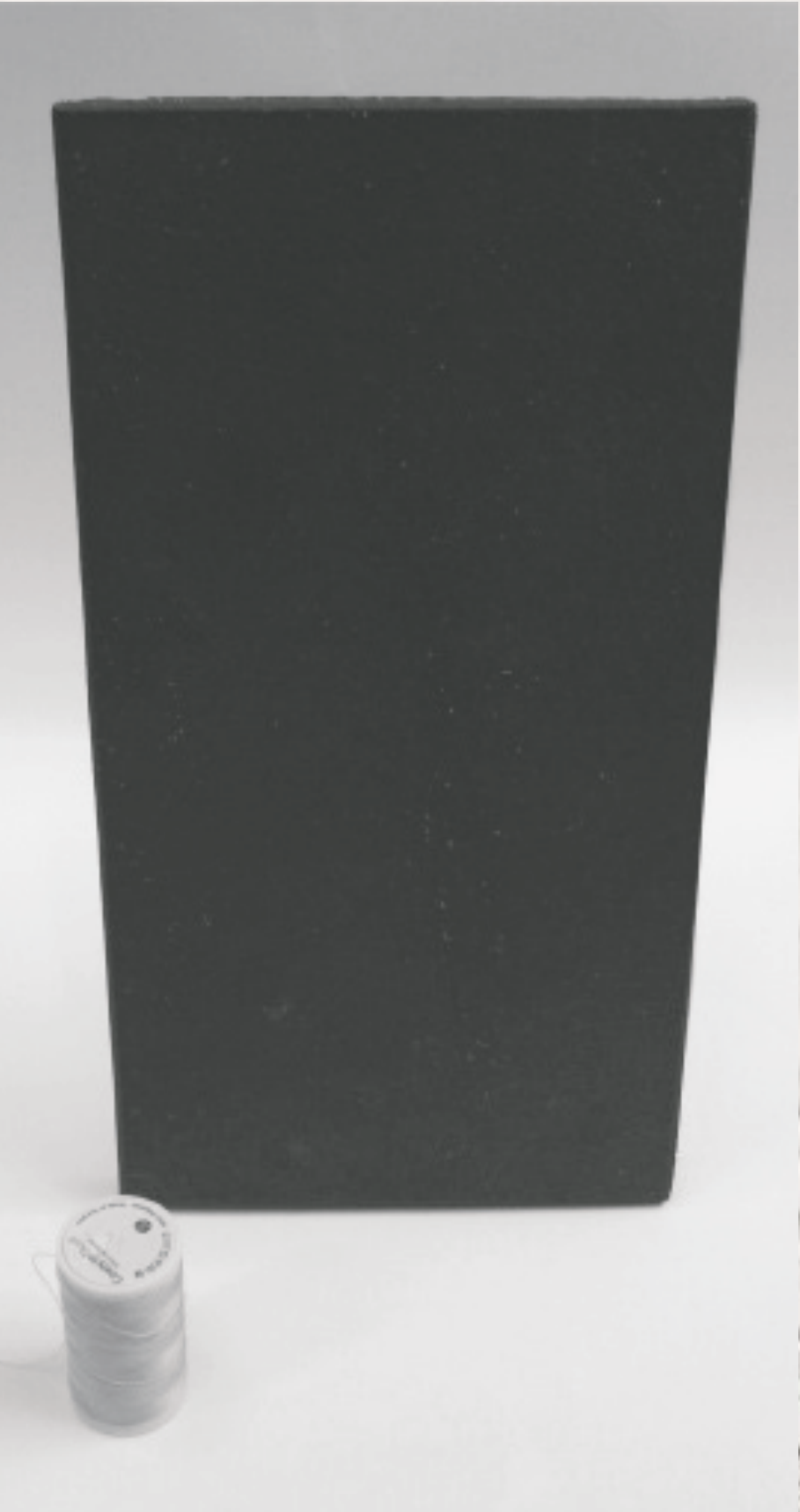
Sheviot housing complex
GCPro™

Residential
Haroma & Partners, Turku
Parma Oy Forssa

2013
Finland

© **graphic concrete**®

Design concept





EP
IKKUNAT

EP
IKKUNAT

EP
IKKUNAT



**Hämeenlinnakeskus –
shopping centre and housing**
GCPro™

Commercial, residential
Arkkitehtityöhuone Artto Palo
Rossi Tikka Oy



Lujabetoni Oy
2013
Finland

© graphic concrete®

Design concept





e
Lai
www

H21TX A

ASENNUSPALVELU
HUUKKA OY
ELEMENTTIASENNUKSET
046 5511 784

NMI



5

Design process

Designing graphic concrete

- Choose product: GCPPro™ or GC Art&Design™
- Contact your local Graphic Concrete representative for consultation
- Design the pattern/image according to instructions
- Deliver the ready pattern/image to Graphic Concrete
- Specify the type of cement and aggregate

“ *If you have any questions about the product or process, please contact us for free consultation*

Getting ready for print

- Use only black and white (no grayscale)
 - vector images: black (c0 m0 y0 k100) and white (c0 m0 y0 k0)
 - raster (bitmap) images: 1-bit black
- Consider contrast, scale and viewing distance
- Include crop marks if needed (within the printing area)
- Send the whole image – it will be divided into printing units by Graphic Concrete production

“ *Membrane margins can be used for prefabrication or element production instructions*



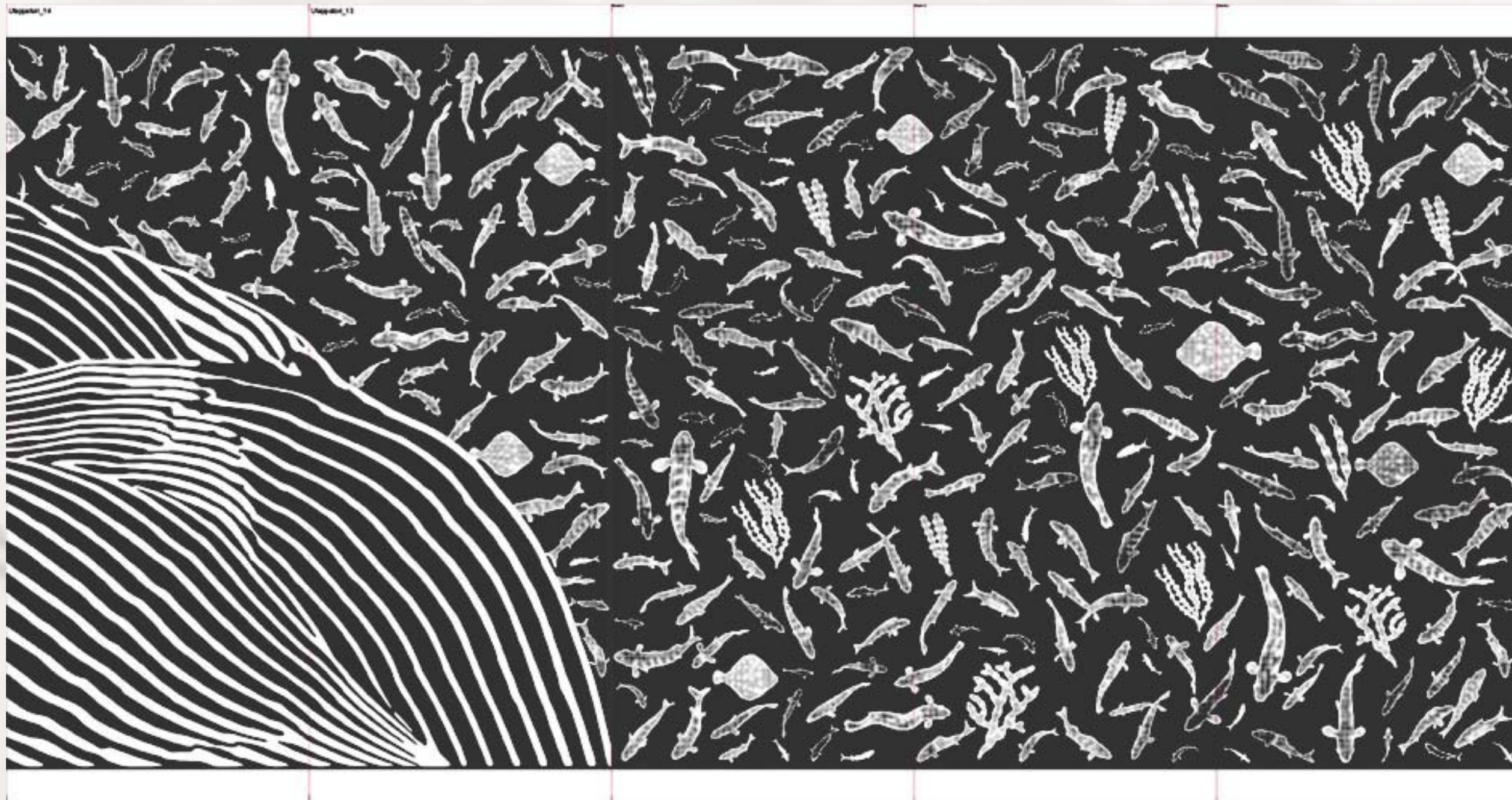
Ulappatori Tähystäjä
GCPro™

Residential
Arkkitehtitsto Petri Rouhiainen Oy
Parma Oy

2013
Espoo, Finland

© **graphic concrete**®







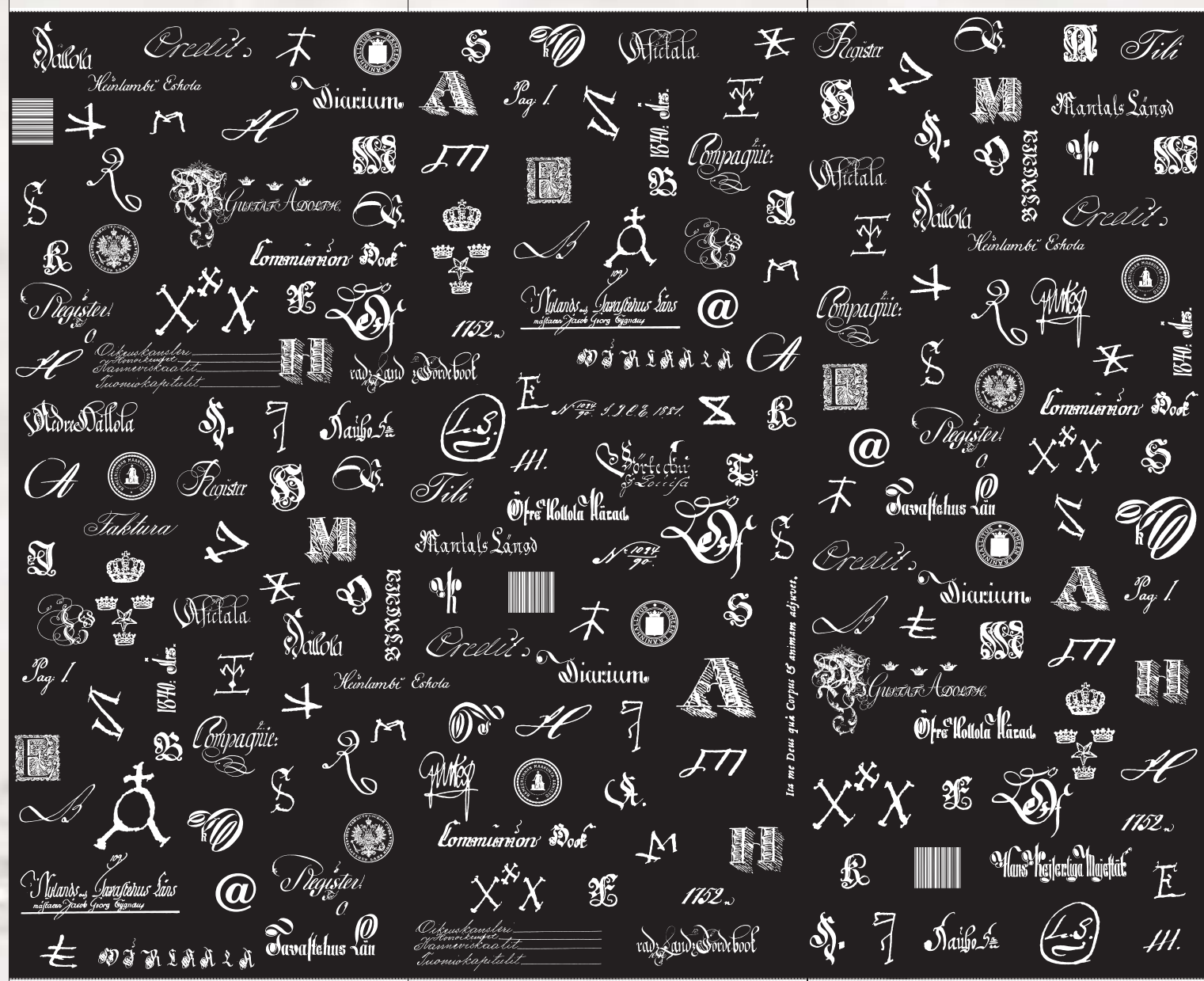
**Hämeenlinna Provincial
Archive**
GCPro™

Public
Arkkitehtuuritoimisto
Heikkinen-Komonen Oy

Parma Oy Kangasala
2008
Hämeenlinna, Finland

© **graphic concrete**®





Ita me Deus quæ Corpus & animam adiuvet.



Søndergård, Senior Housing

GCPPro™

Public

Trude Mardal, Entasis

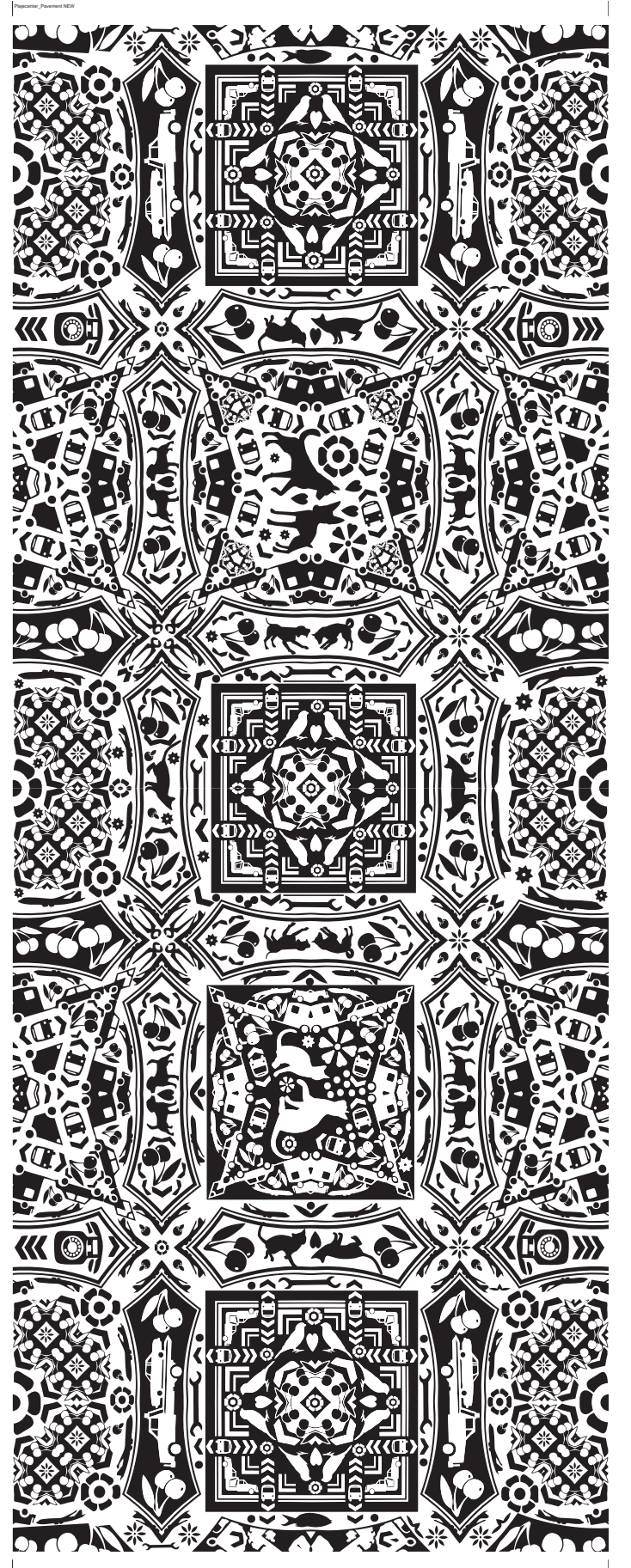
Design: Ane Metter Ruge

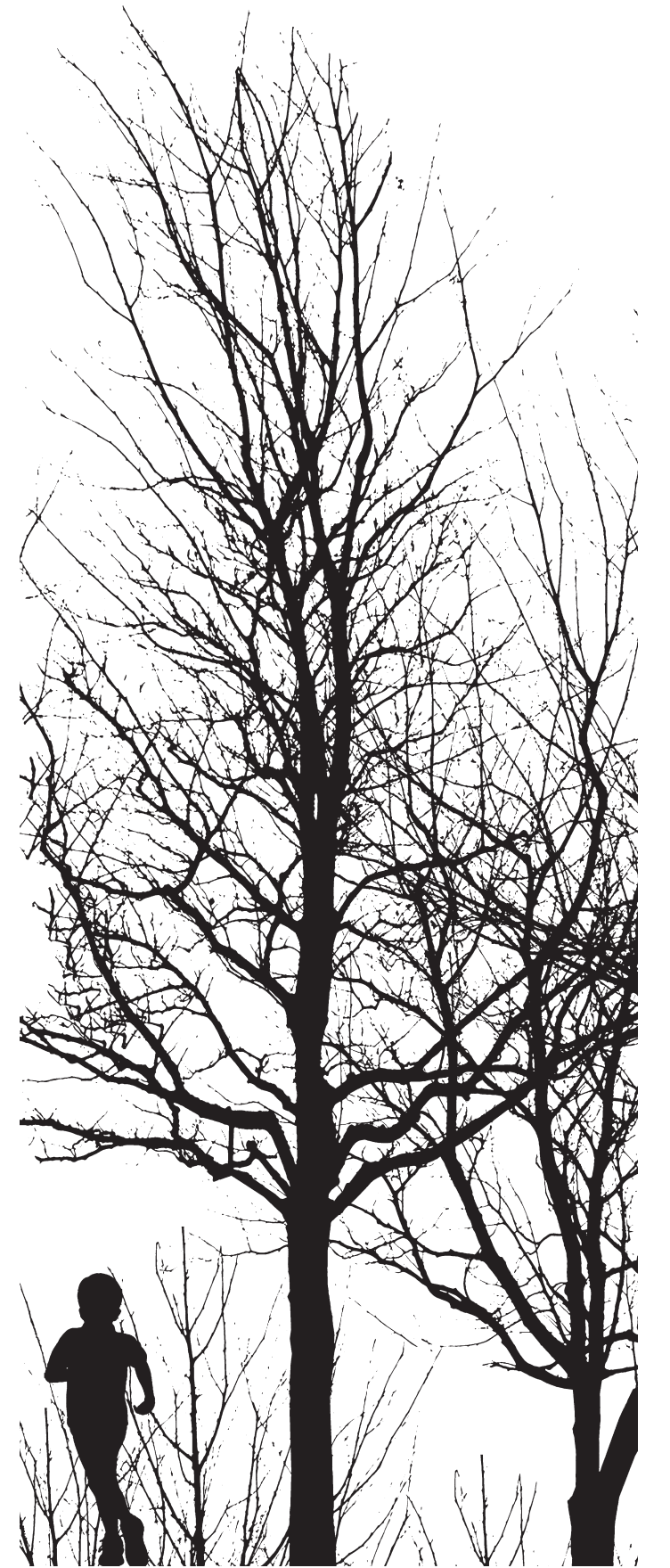
Aarhus Cementvarefabrik A/S

2012

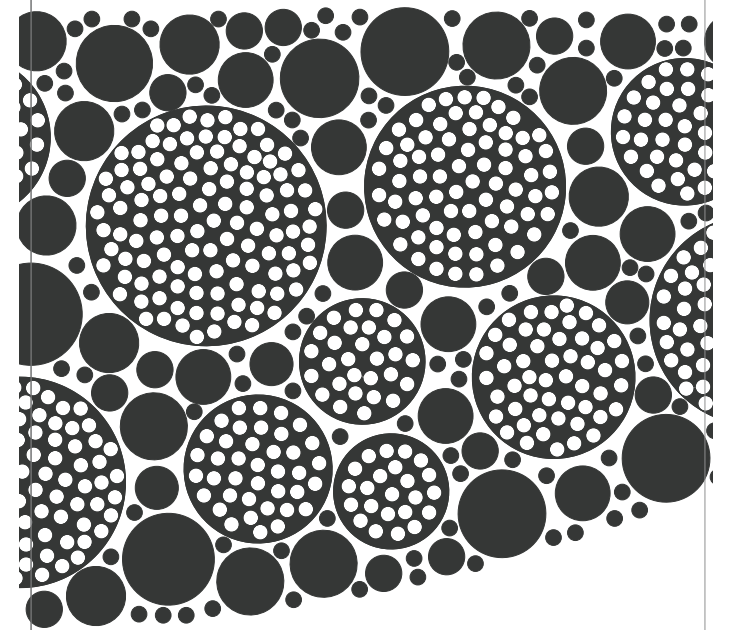
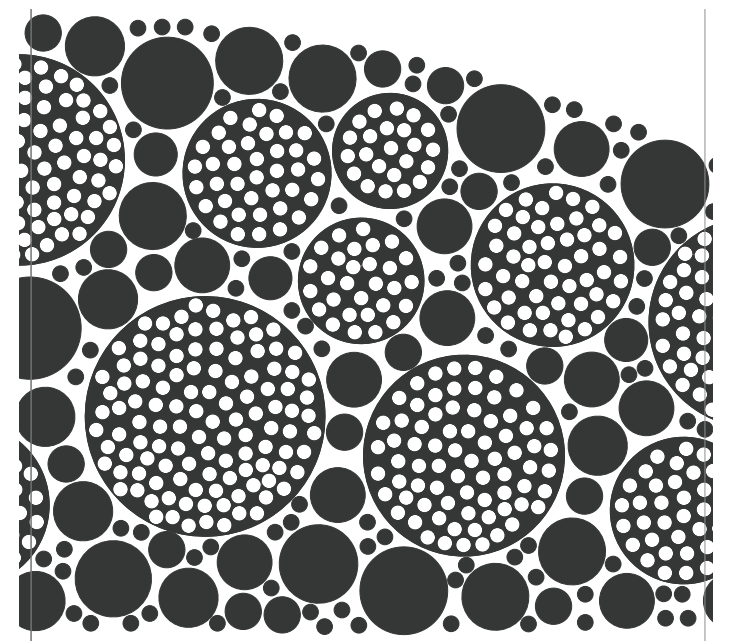
Måløv, Denmark

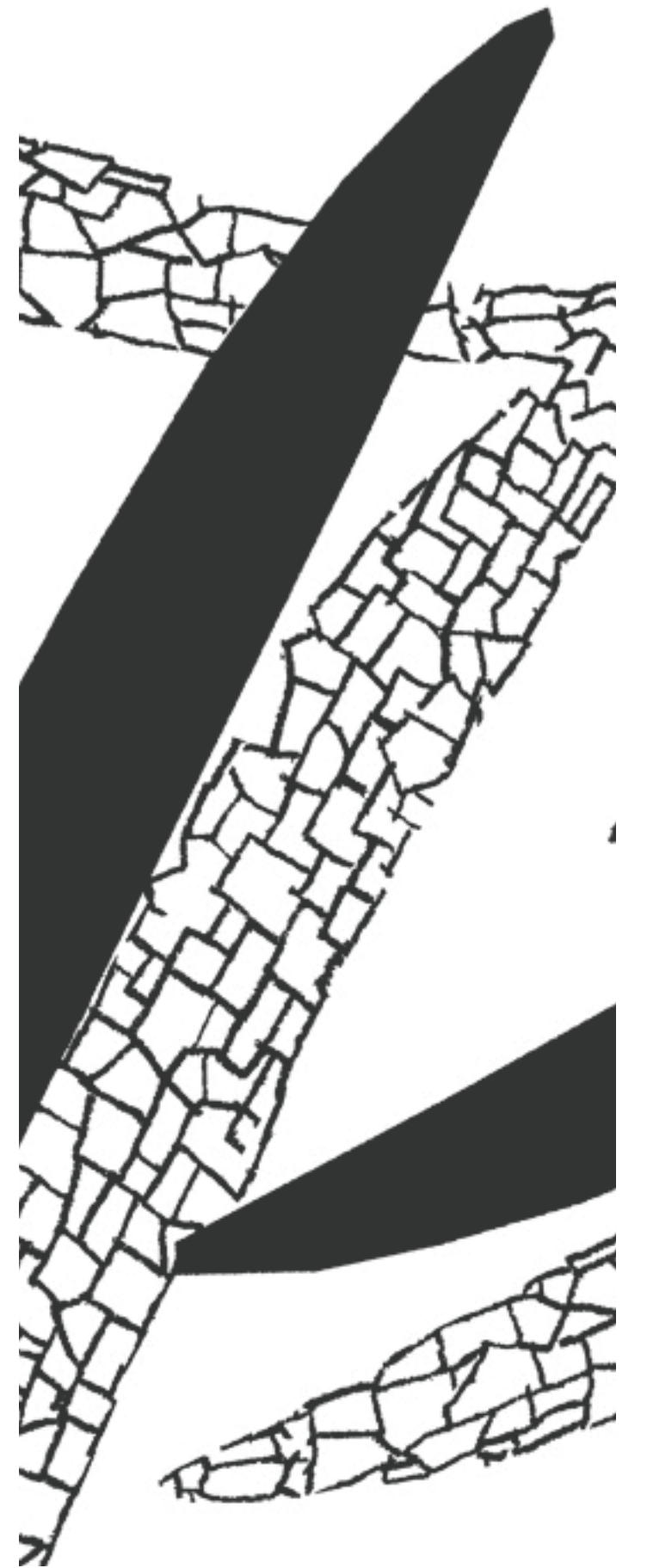
© graphic concrete®

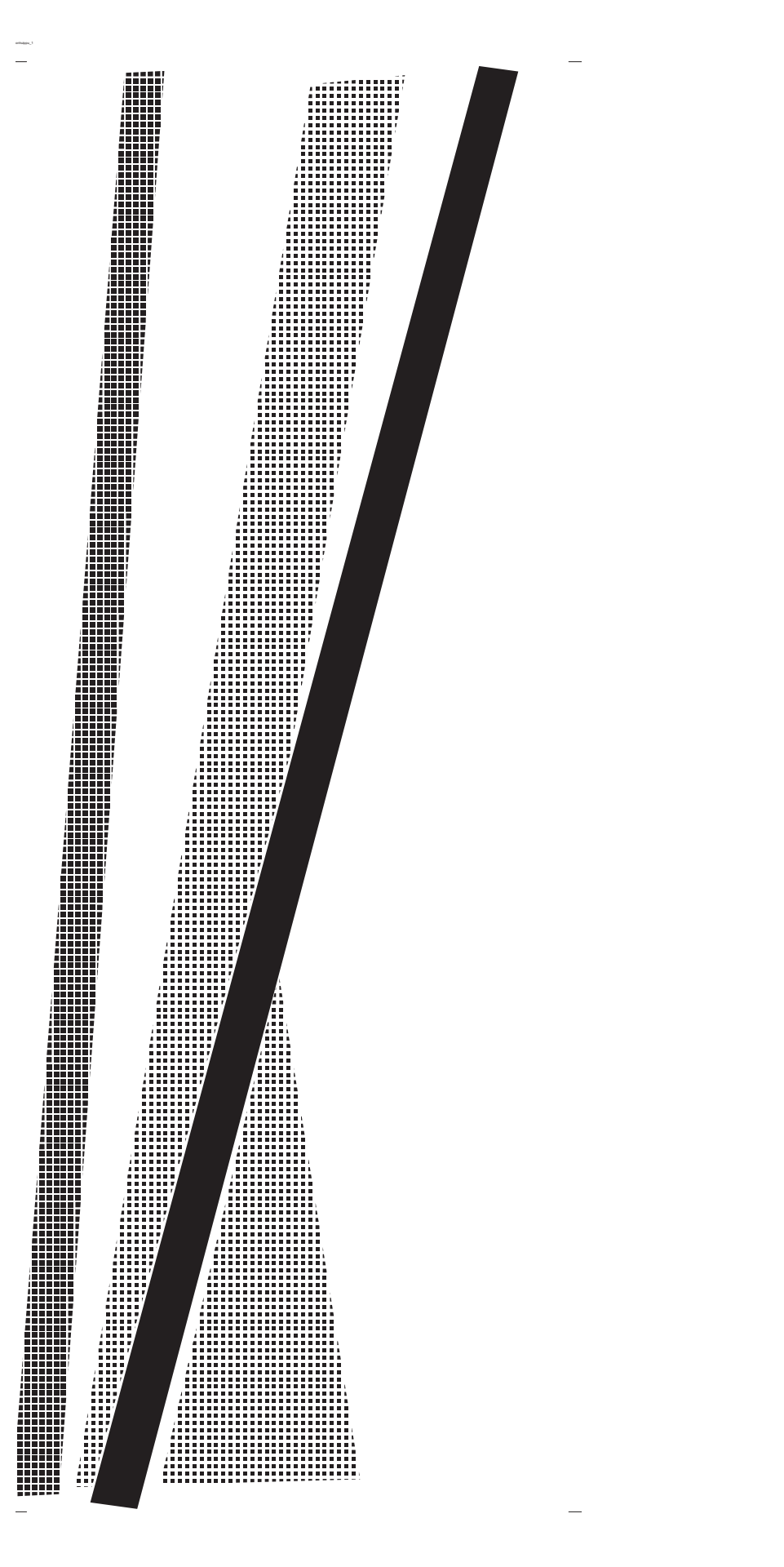


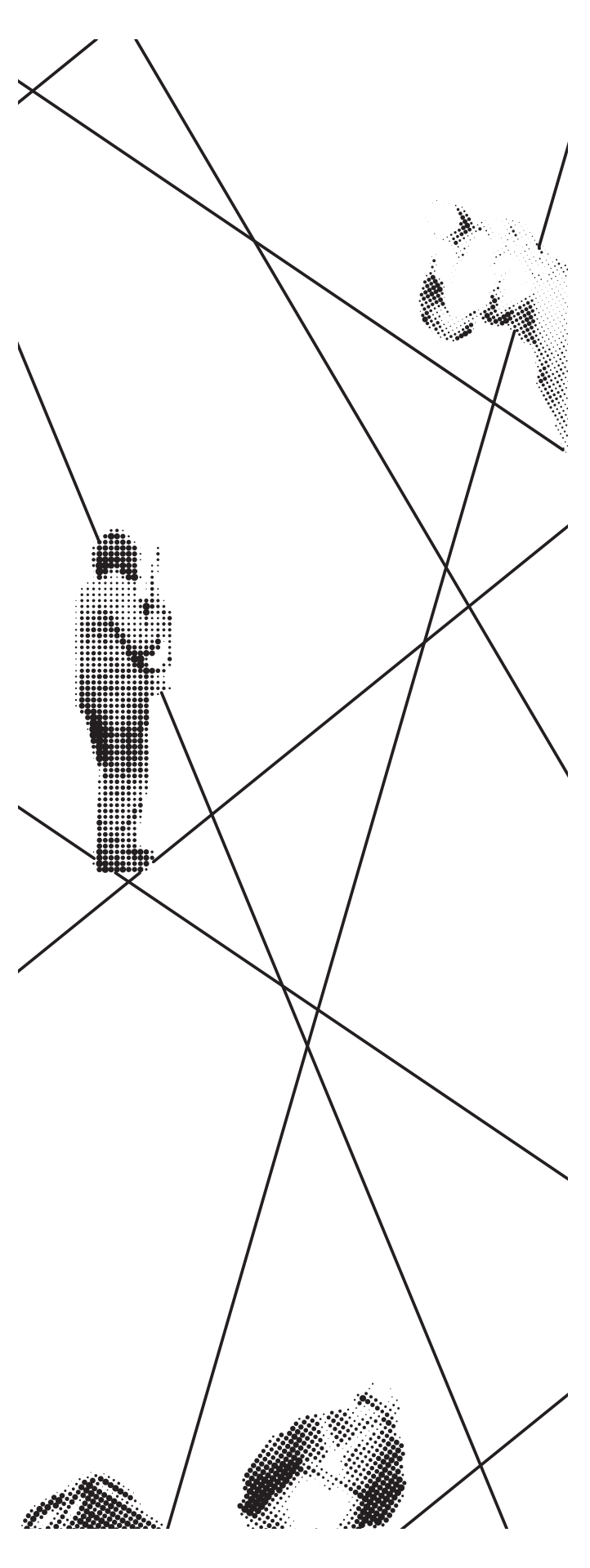




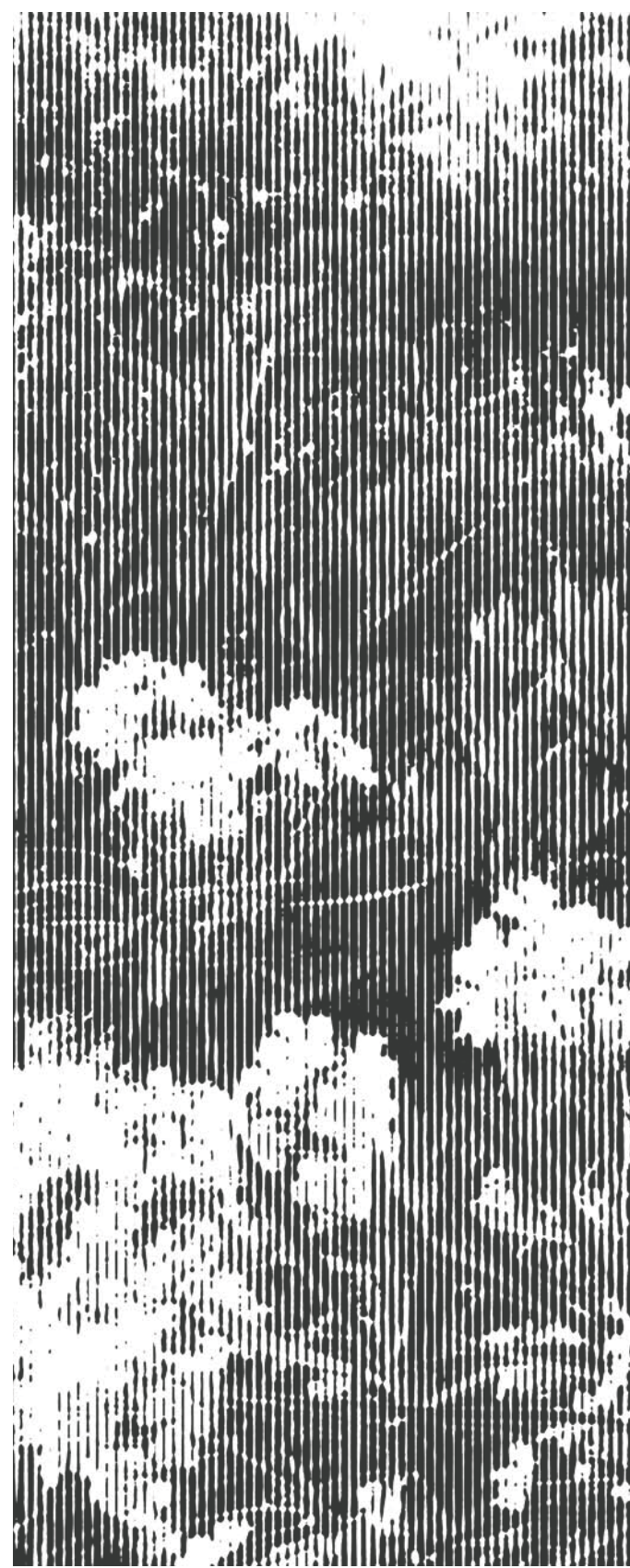
















References



Public



Høvik barneskole

GCCollection™ | Grass

Public

Planforum Arkitekter AS

Opplandske Betongindustri AS

2013

Sandvika, Norway







Vejle Sygehus Hospital
GCCollection™ | Stripes

Public
Arkitektfirmaet TKT A/S
Ambercon A/S

2010
Vejle, Denmark

© graphic concrete®









Kangasalan lukio High-School

GCPPro™

Public

Tilatakomo Oy

Hartela Oy Turku

2012

Kangasala, Finland

© graphic concrete®





KIO

42



4



**Chiesa Beato Papa Giovanni
XXII, Chapel**
GC Art&Design™

Public
Traversi + Traversi Architetti
Styl-Comp Group

2012
Bergamo, Italy

© graphic concrete®







Handwritten notes in the top right section of the page, including a large blue circular sticker. The text is mostly illegible due to blurring and the sticker's presence.

Handwritten notes in the bottom right section of the page, continuing the text from the top right. The text is mostly illegible due to blurring.

Handwritten notes in the left section of the page, including a large blue circular sticker. The text is mostly illegible due to blurring and the sticker's presence.



Bærum Idrettspark
GC Art&Design™

Public
Dyrø & Moen AS Arkitekter MNAL
Kynningsrud Prefab AS

2013
Bærum, Norway

© graphic concrete®









Tingagerskole
GCPro™

Public
Brøgger Jesper Thyge Arkitekt
CONFAC A/S Denmark

2011
Ringe, Denmark

© graphic concrete®

atio

å foran

skab

967

lage initiativ

Live

$\epsilon = m \cdot c^2$

Spas

Nyskabende

Udbud

25

Voc

1989

"Træd varsomt

H_2O

π

Gå foran

Young

Menneske og sundhed

1967

22

Menneske og sundhed

Leben

18



Residential



Vantaan Kirjosiipi, Housing
GCPro™
Residential

Arkkitehtitoimisto
Hannu Jaakkola Oy
Lahden Kestobetoni Oy

2012
Vantaa, Finland

© **graphic concrete**®











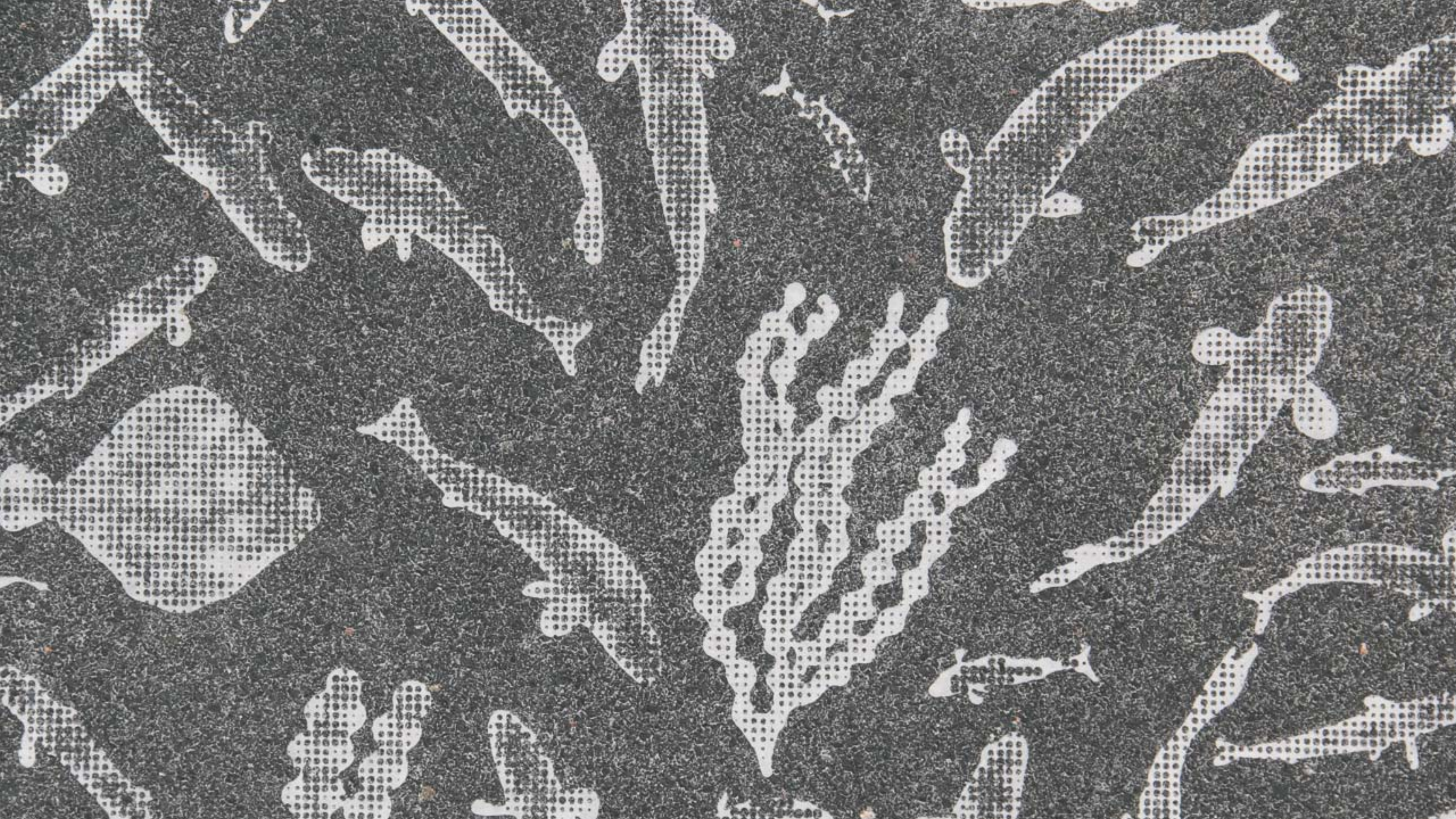
Ulappatori Tähestäjä
GCPro™

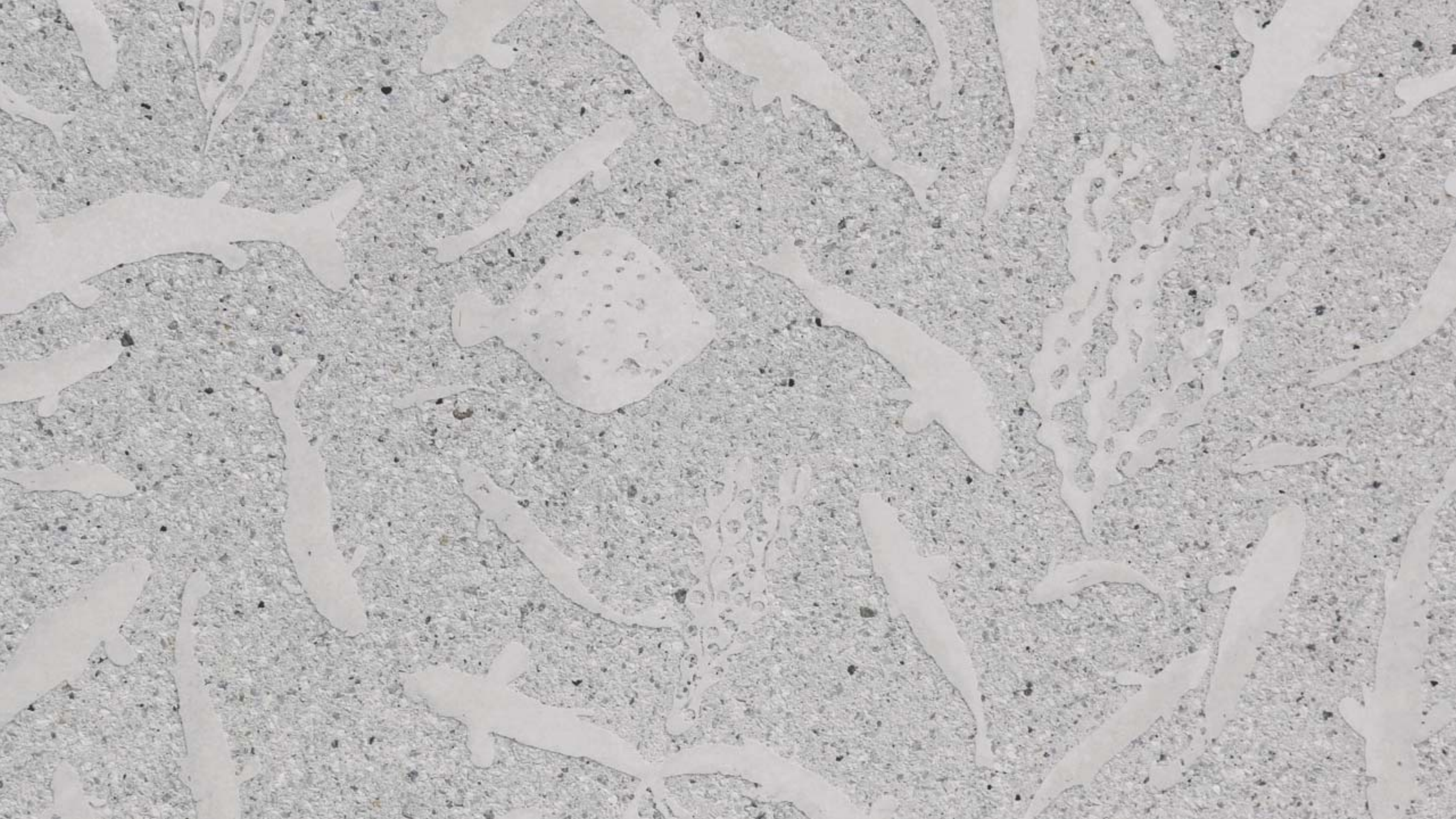
Residential
Arkkitehtitsto Petri Rouhiainen Oy
Parma Oy

2013
Espoo, Finland

© **graphic concrete**®













Helsingin Vanhalinna

GCPPro™

Residential

Architects Lahdelta & Mahlamäki

Ämmän Betoni Oy

2011

Helsinki, Finland

© **graphic concrete**®









Helsingin Tervapääskynen

GCP[™]

Residential

Arkkitehtitoimisto Helamaa ja

Pulkkinen Oy

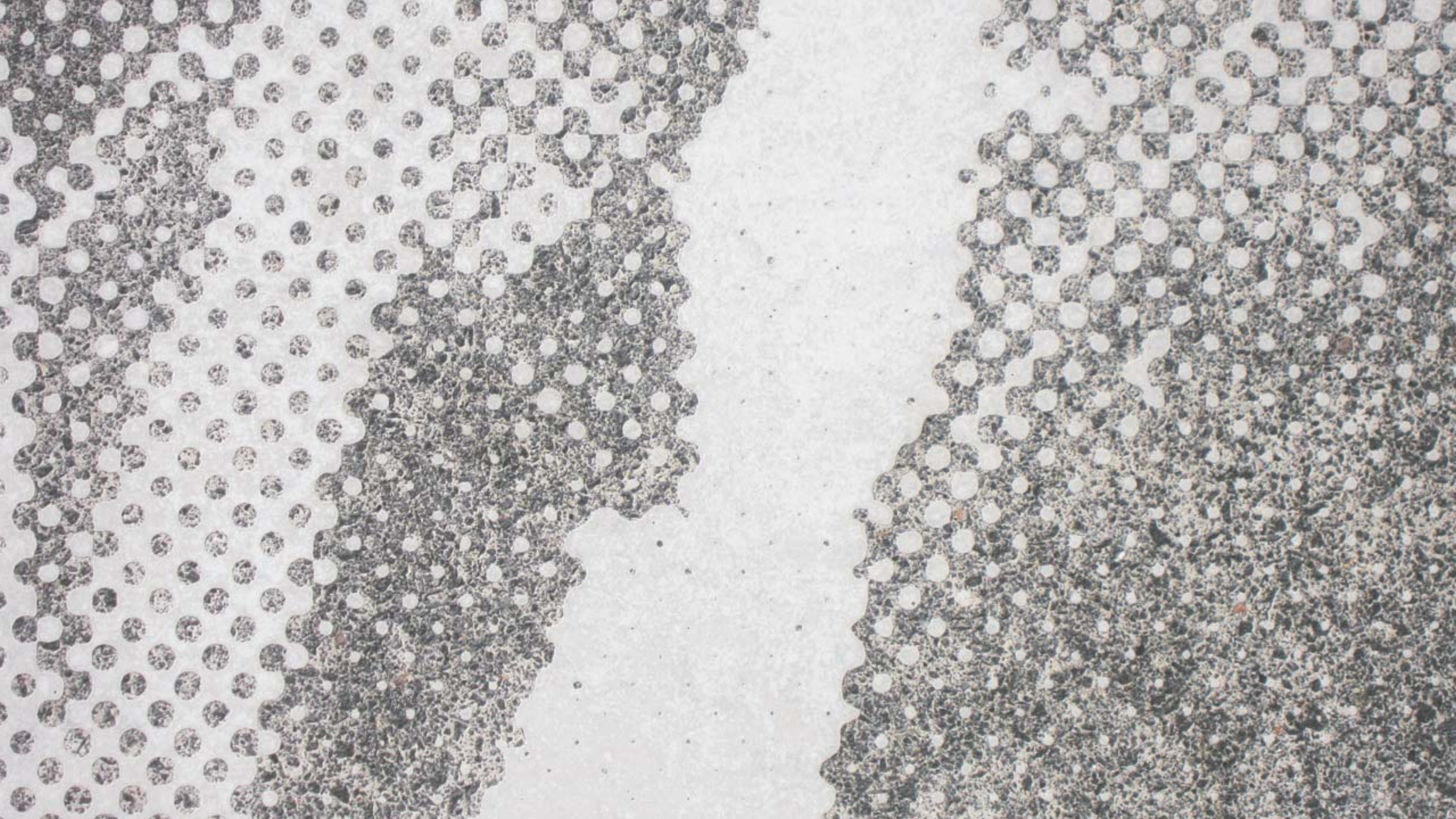
Parma Oy Forssa

2011

Helsinki, Finland

© graphic concrete[®]









Lahden Panimonaukio

GCCollection™ | Turtle nega

Residential

Arkkitehtityö Boman, Lindström,

Vesanen, Virtanen Oy

Mikkelin Betoni Oy

2010

Lahti, Finland

© graphic concrete®



MALLASKATU 4





Grundfors Collegiet

GCPPro™

Residential

Cebra A/S

Spæncom A/S Kolding

2012

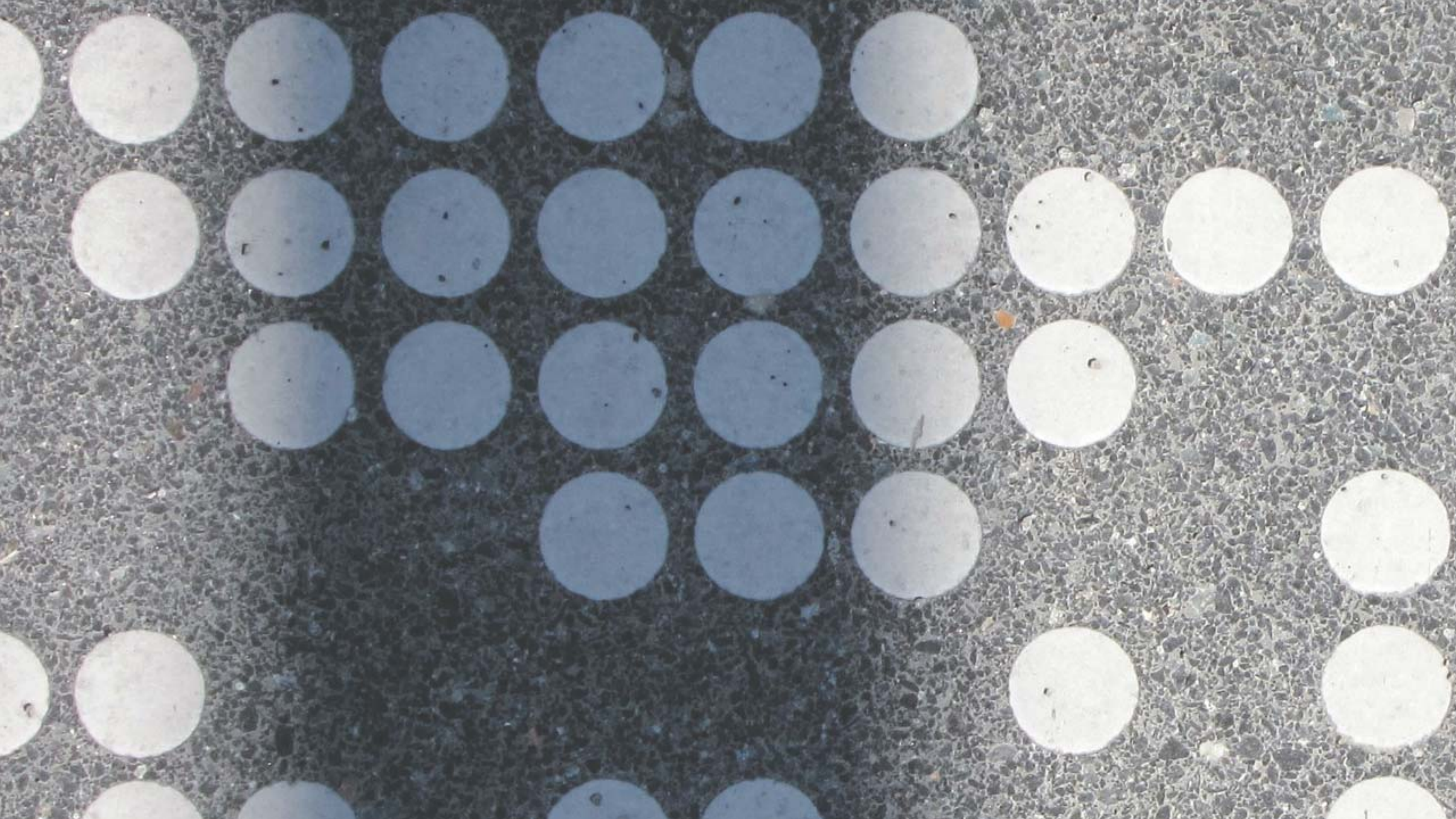
Århus, Denmark

© **graphic concrete**®











Reference title
GCPro™/GCCollection™

Construction type
Designer/Architect
Prefabrication

Recipe
Year
Location



© graphic concrete®

Commercial



Kv Tändstickan
GCPro™

Commercial
Arkitekbyrån AB, Göteborg
Kynningsrud Prefab Ab

2013
Gothenburg, Sweden

© **graphic concrete**®









Derby, Business Park

GCPTM

Commercial

Lahdelma & Mahlamäki Architects

MH Betoni Oy

2011

Espoo, Helsinki

© **graphic concrete**[®]











Väla, Shopping Centre
GCPPro™

Commercial
Ågrenkonsult AB
Abetong AB

2012
Ödåkra, Sweden

© graphic concrete®





2,1





Pennfäktaren, Office building

GCPPro™

Commercial

Reflex Arkitekter AB

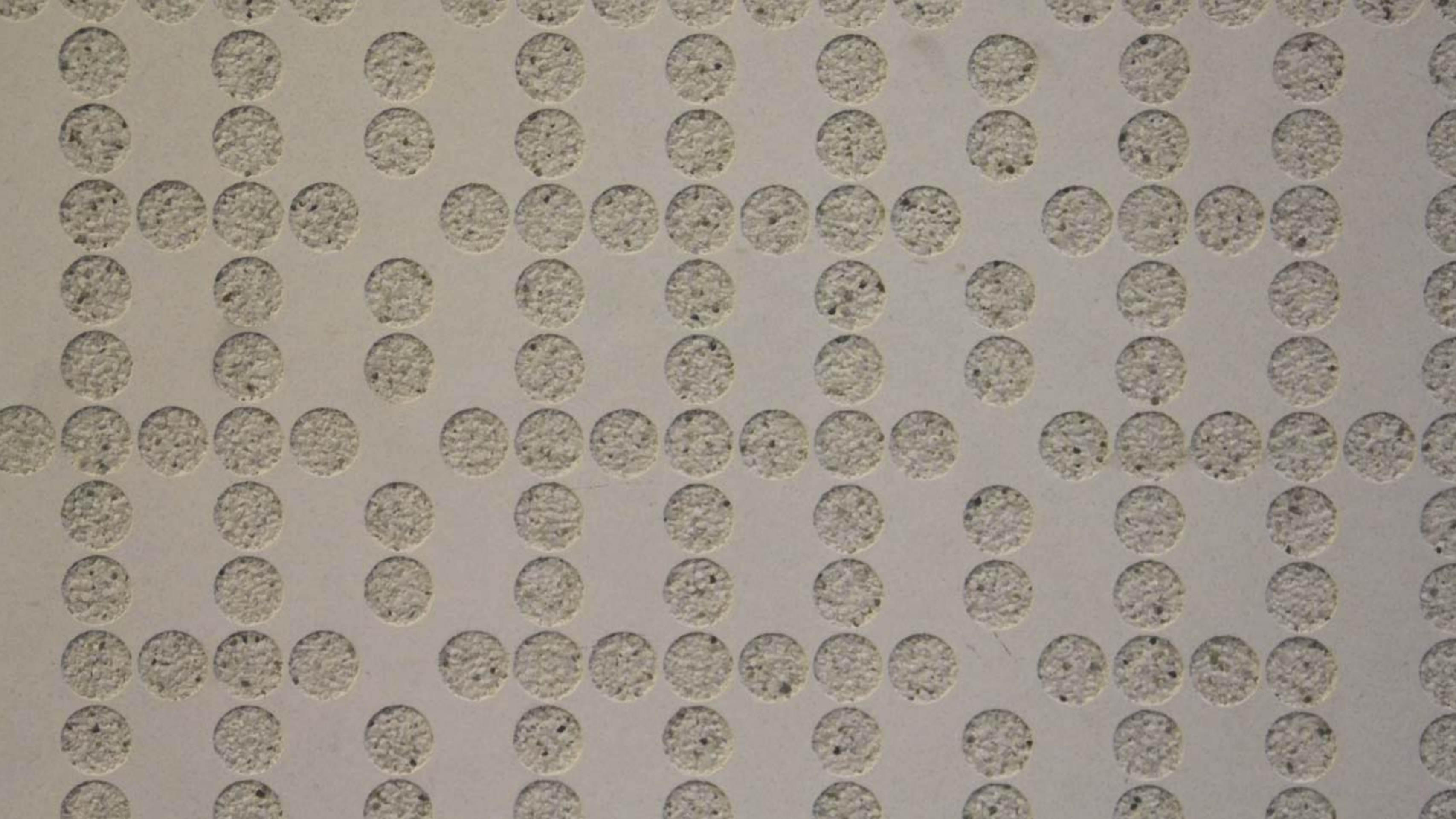
2011

Stockholm, Sweden

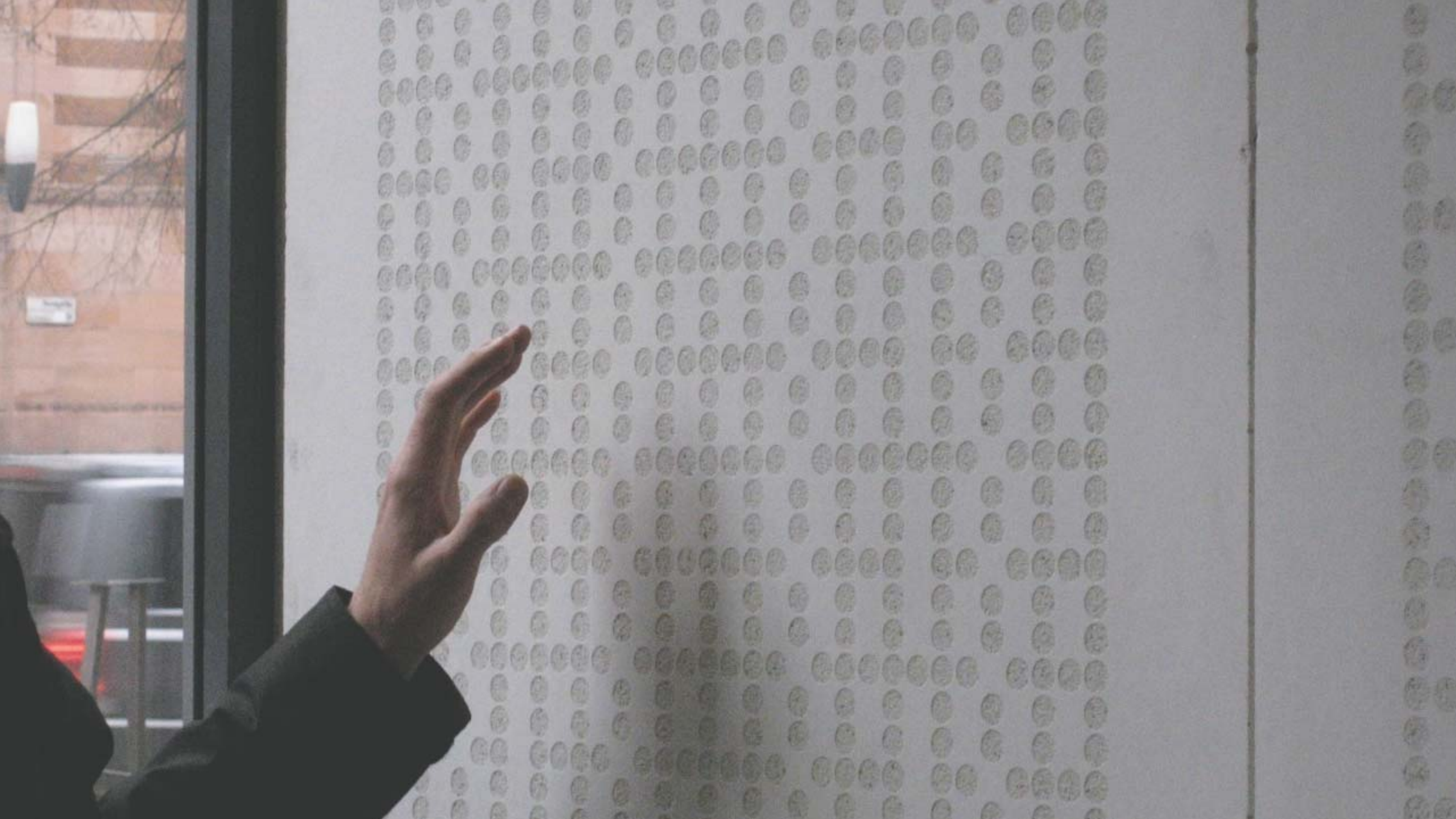
© **graphic concrete**®

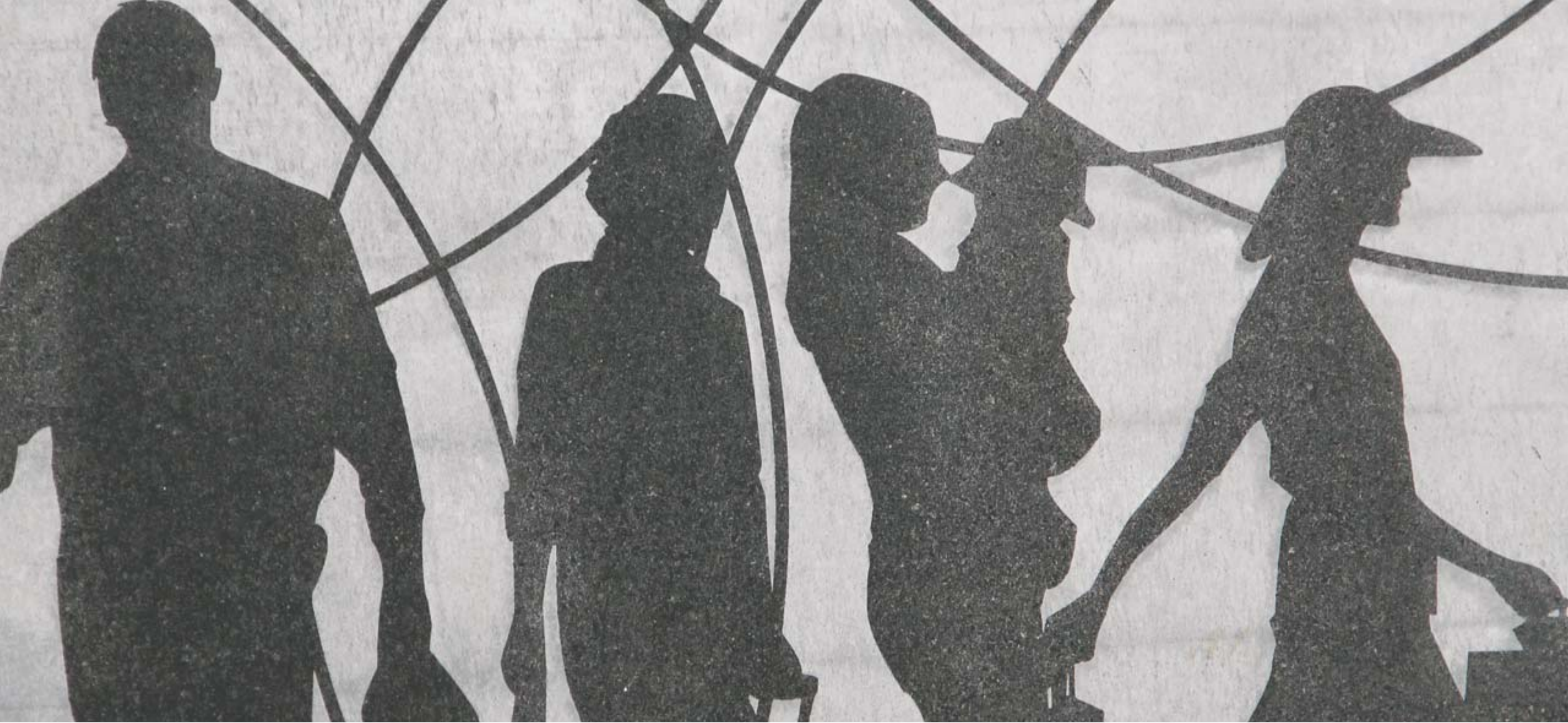
Library











**Ikano Kuopio – Matkus
Shopping Centre**
GCPro™

Commercial
Parviainen Arkkitehdit Oy

BM Haapavesi Oy
2012
Kuopio, Finland

© **graphic concrete**®









Frölunda, shopping Centre
GCPro™

Commercial
White Arkitekter Ab
Stränbetong

Massa
2009
Gothenburg, Sweden

© **graphic concrete**®







KN
OY
MC
AK
KL
EAR
RT

MATHESET

BEJÄNTEN

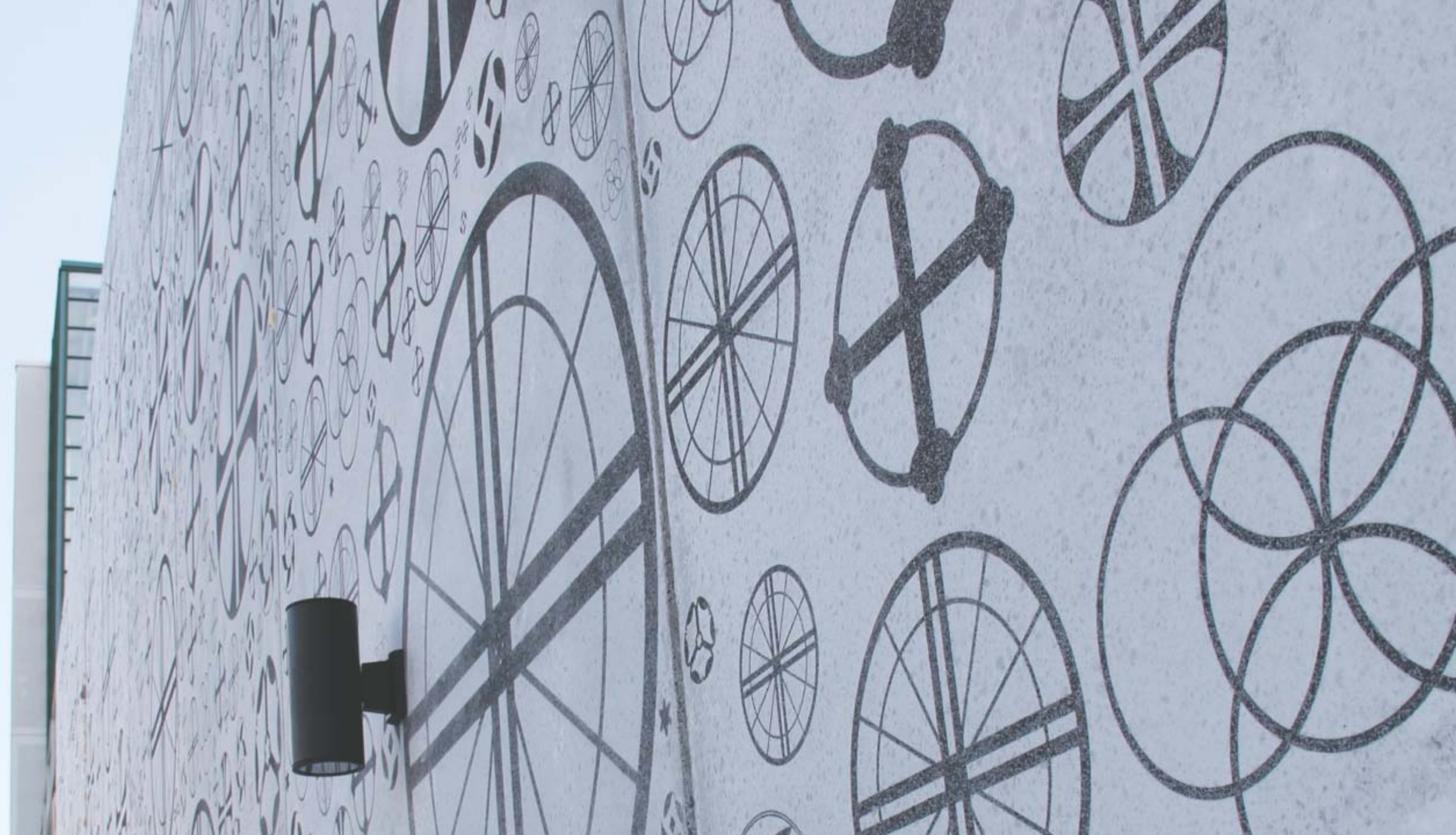


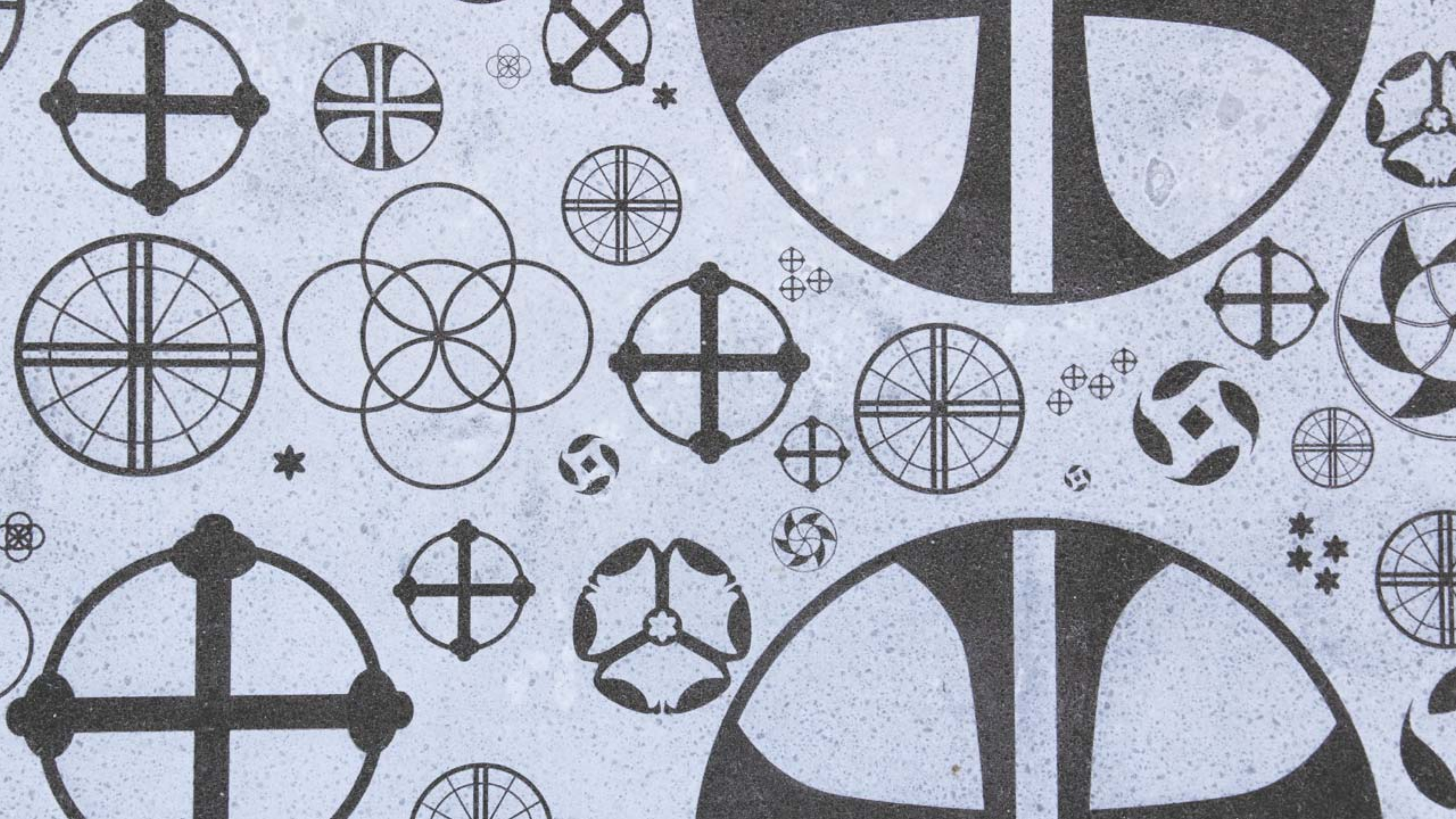
The Bishop's Courtyard
Parking
GCPro™

Commercial
Helamaa ja Pulkkinen Architects
Pielisen betoni Oy

Massa
2011
Espoo, Finland

© graphic concrete®









Moveres Business Garden
GCPro™

Commercial
SARC Architects Ltd
Parma Oy

2008
Helsinki, Finland

© **graphic concrete**®







Environmental



Liberty Square
GCSmooth™
Environmental

Anders Alver, Veljo Kaasik and Tiit
Trummal Architects
Pärnu betoonimestar and

Alistron AS
2009
Tallinn, Estonia

© **graphic concrete**®







Valkoisenlähteentie Bridges

GCPPro™

Environmental

Design: Tuuli Halve

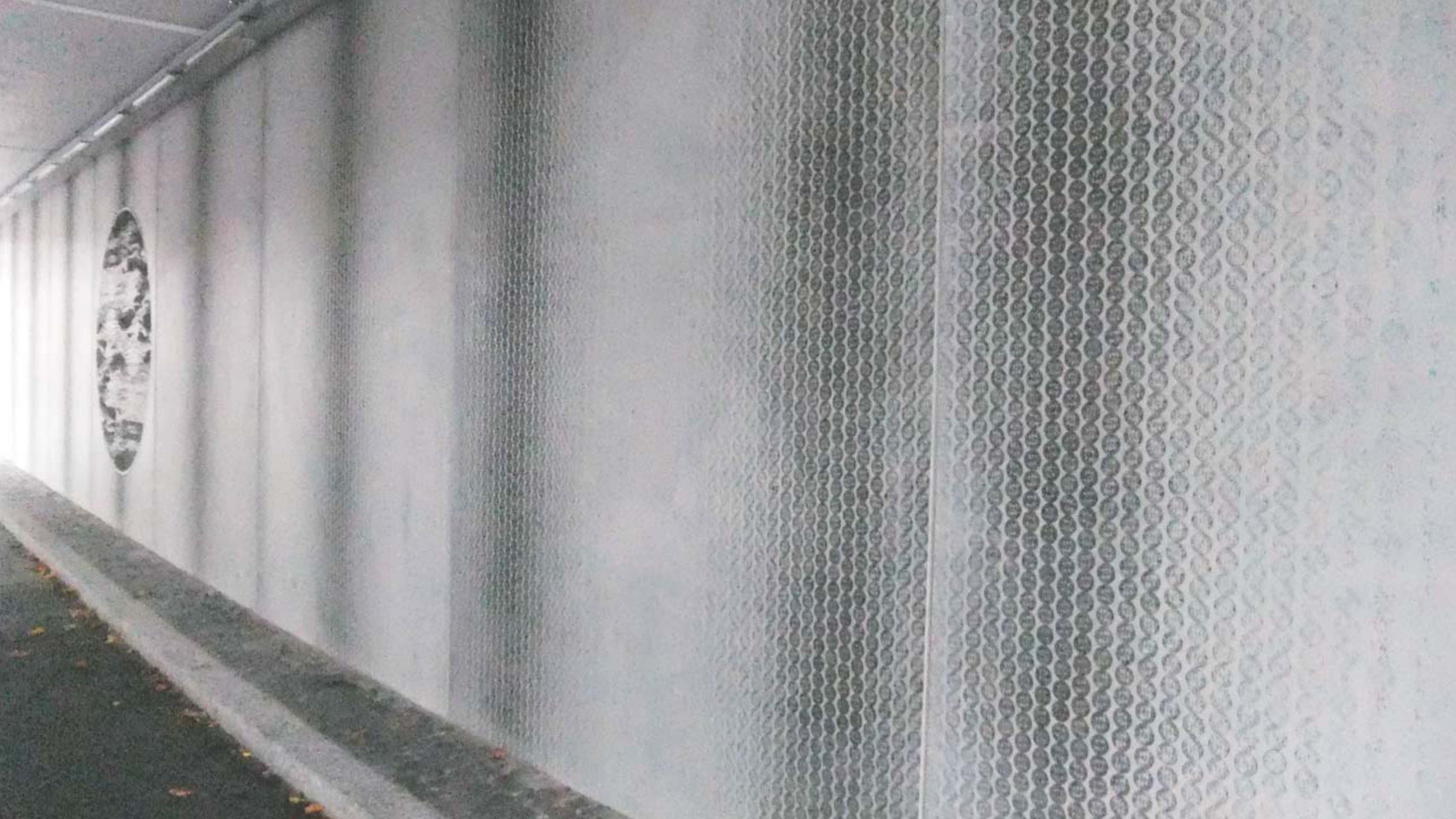
BM Haapavesi

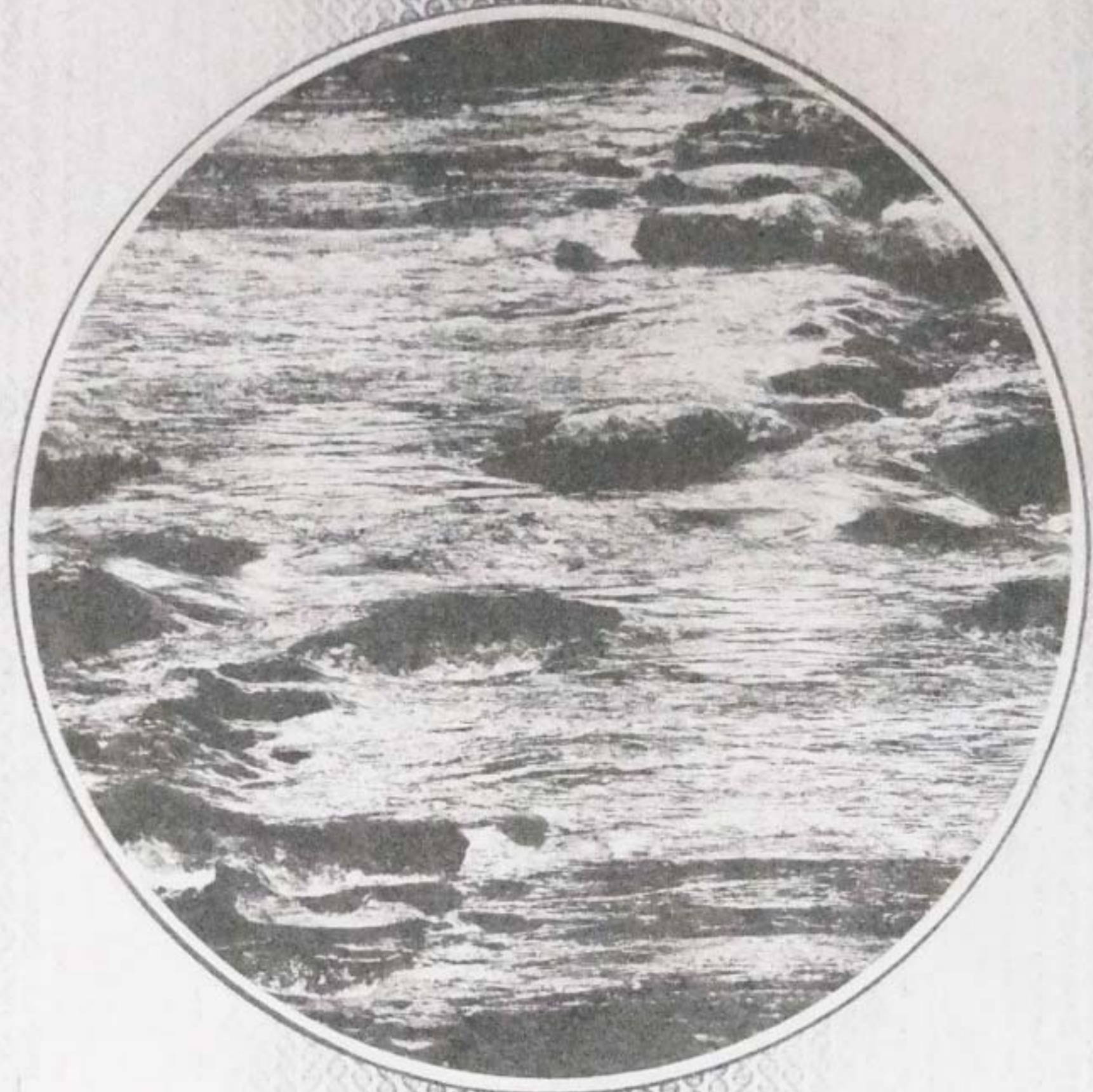
2010

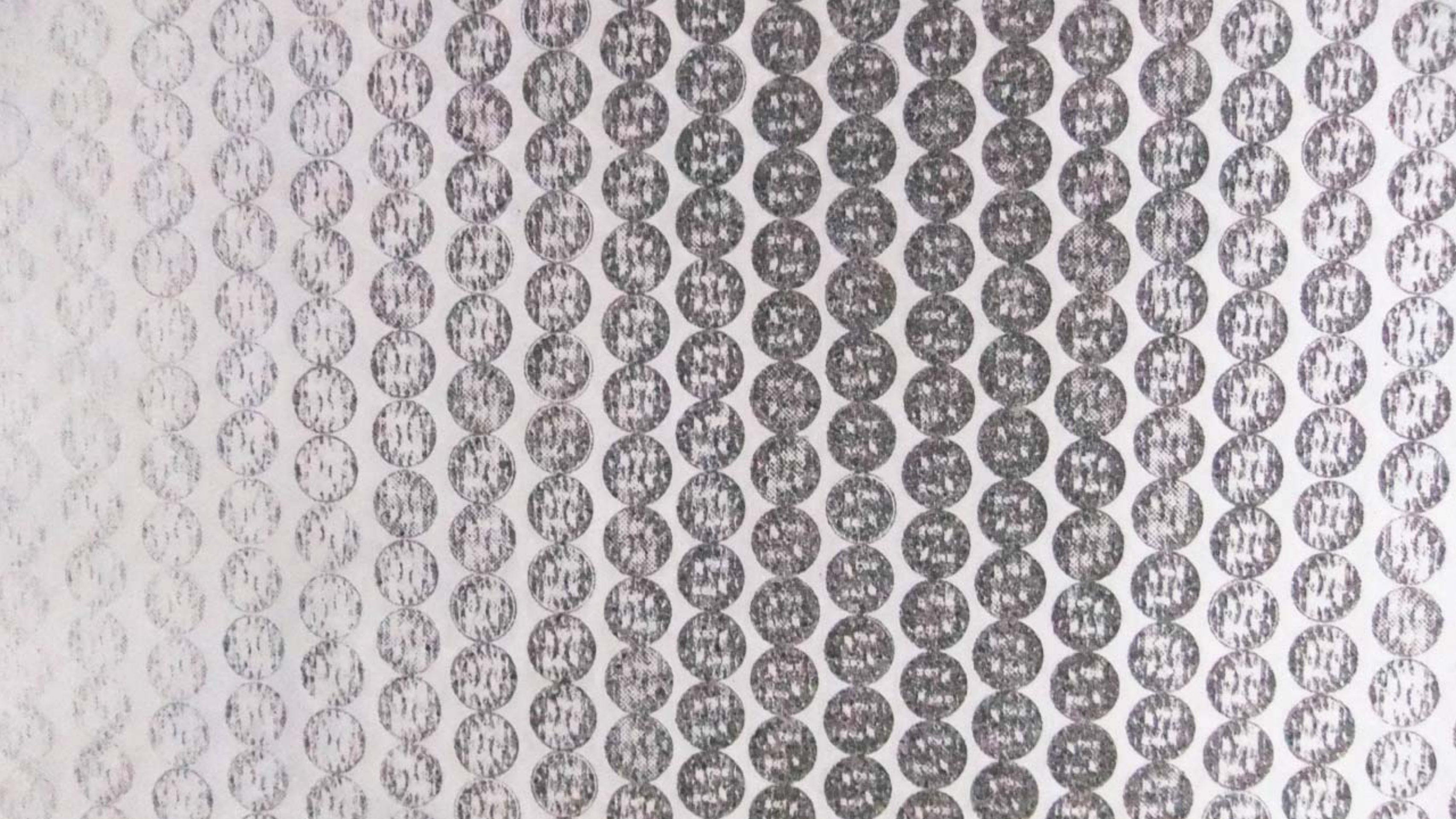
Vantaa, Finland

© **graphic concrete**®











Kamppi Service Tunnel

GCPPro™

Rakennustyyppi

Suunnittelija/Arkkitehti

Valaja

Massa

Rakennusvuosi

Sijainti

© graphic concrete®





Industrial



Sjursøya Skur 84

GCPPro™

Industrial

NAV A.S. Architects

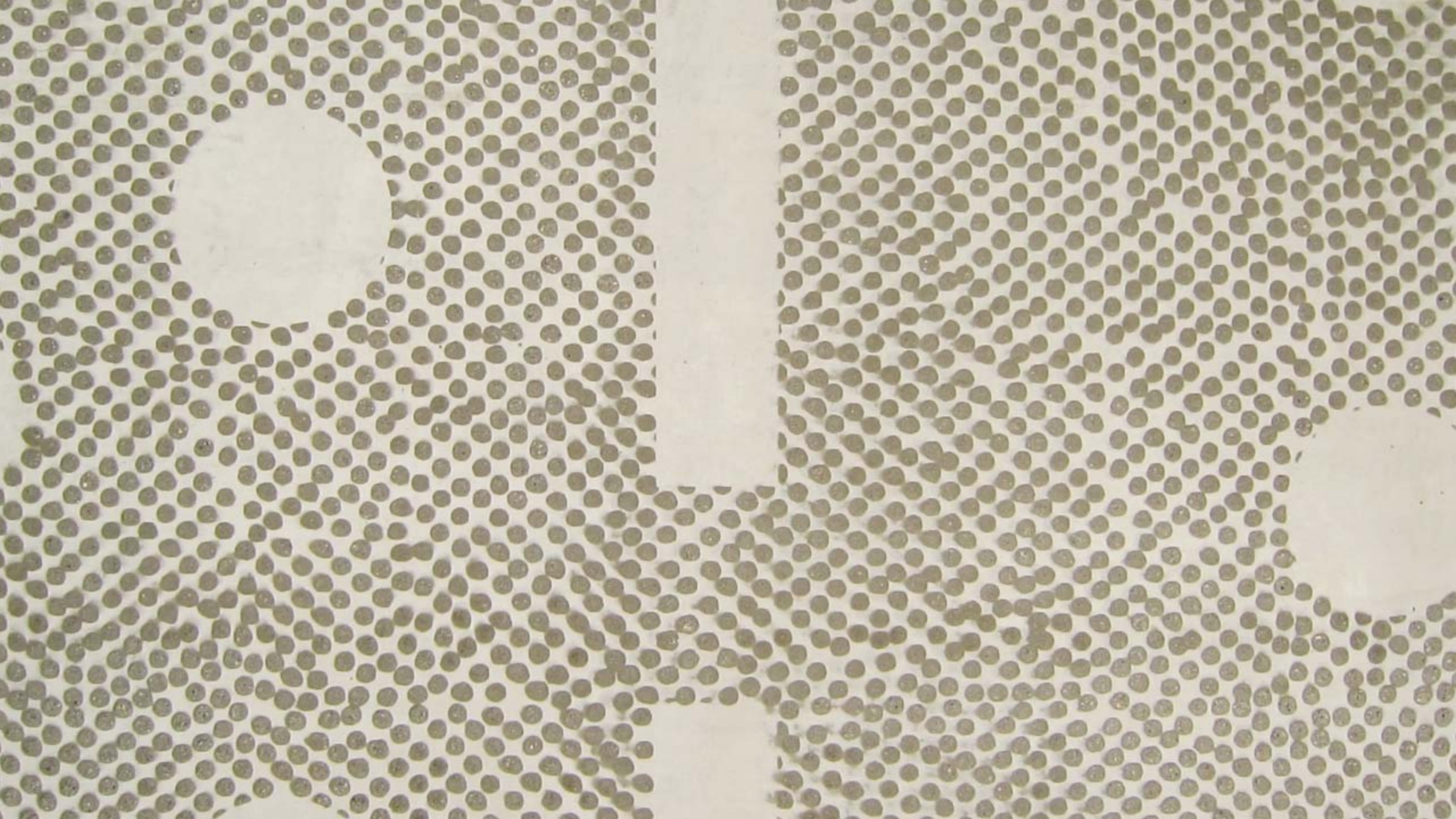
Contiga AS

2013

Oslo, Norway

© **graphic concrete**®









Sultrade, Warehouse

GCCollection™ | Hay Stack

Industrial

Groop & Tiensuu Arkkitehdit Oy

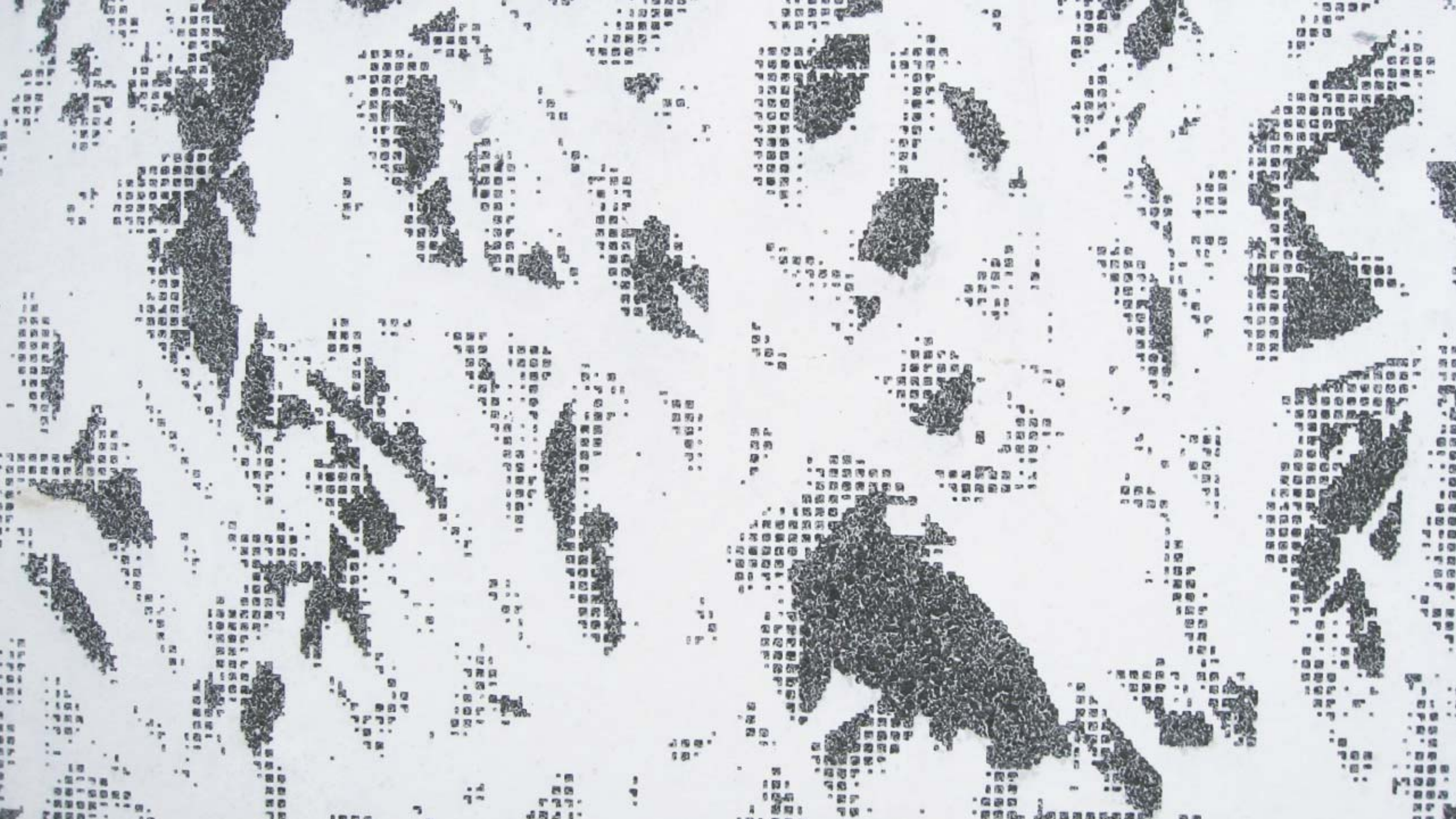
Pielisen Betoni Oy

2011

Espoo, Finland

© graphic concrete®











Enjoy Concrete, Factory

Building

GCPro™

Industrial

Enjoy Concrete

2012

Veurne, Belgium

© graphic concrete®







King Inox, Headquarters

GCPPro™

Industrial

Architect Luigi Corato

Truzzi S.p.a. con socio unico

Under constructions

Milano, Italia

© **graphic concrete**®





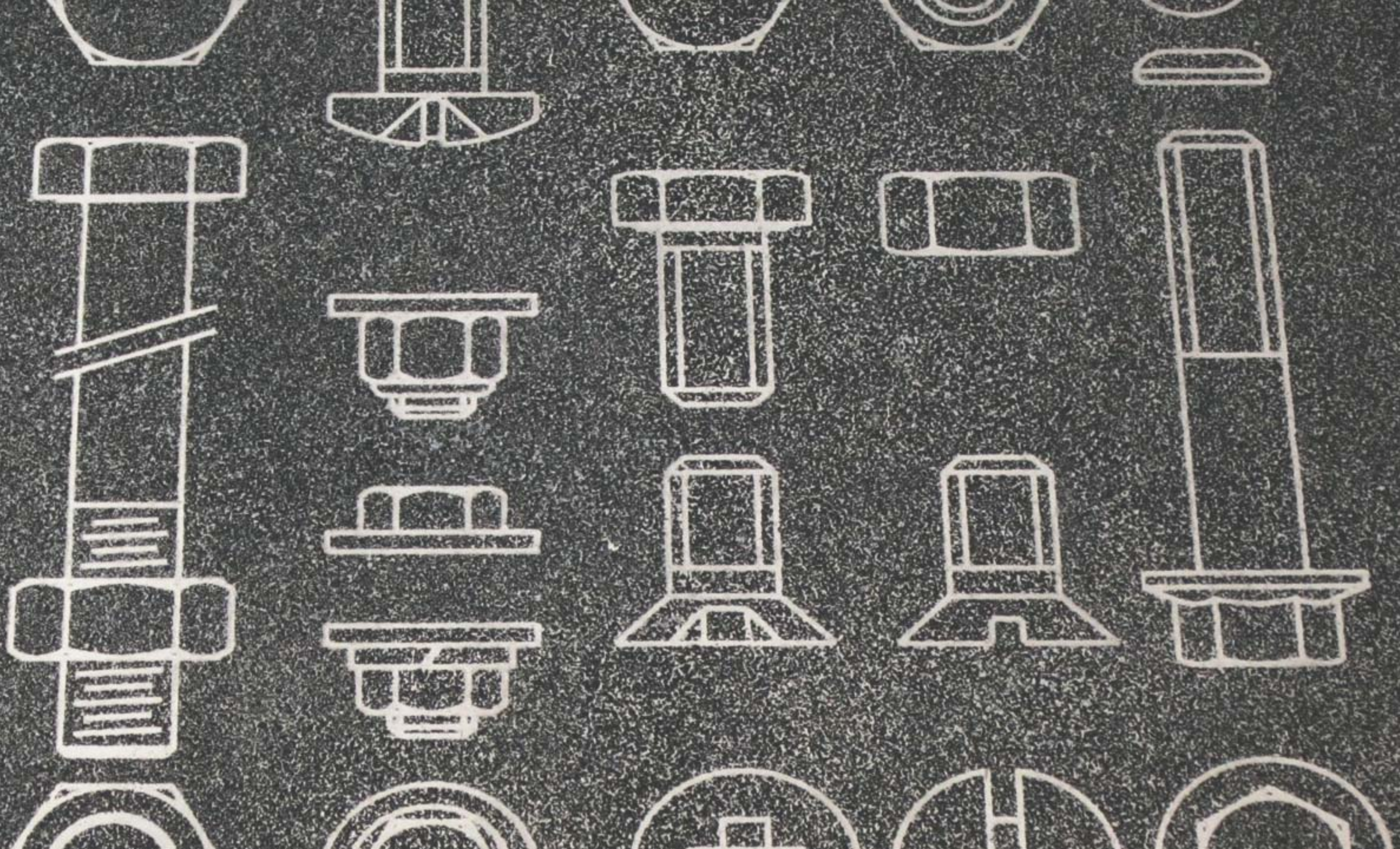




STAINLESS STEEL

KING

WELDERS SINCE 1968





H.A.N.S.

GCCollection™ | Atom Cross

Industrial

Ing. arch. Jan Jarolimek

H.A.N.S. stavby, a.s.

2009

Čeperka, Czech Republic

© graphic concrete®





www.graphicconcrete.com

Graphic Concrete Ltd

info@graphicconcrete.com

Twitter: [@GraphicConcrete](https://twitter.com/GraphicConcrete)