



etex inspiring ways  
of living

 **Superboard®**

 **EQUITONE**  
Fibre cement facade materials

*Euronit*

 **PLADUR®**

 **Gyplac**

*Eternit*

**CEDRAL**

**Promat**

 **DURLOCK®**

 **Kalsi**

 **siniat**



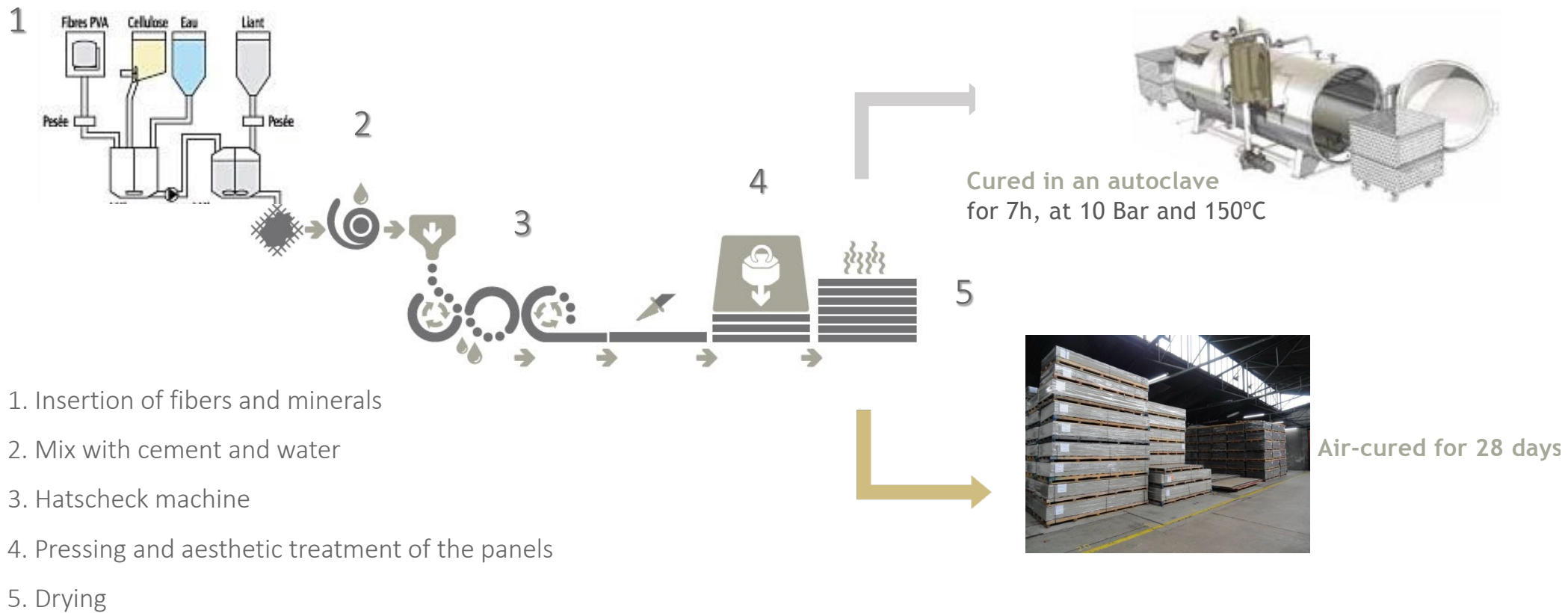
## COMPOSITION

- Cement
- Sílica
- Matrix:
  - Cellulose fibers
  - PVA fibers
- Pigments (mass color)
- Water

Norma Europea EN 12467 -Fibro cemento



# MANUFACTURING PROCESS





## VALUE PROPOSITION OF FIBER CEMENT PANELS



### SOSTENIBILIDAD (C2C)



GRAN FORMATO MUY FINO MAX 3100 x 1250 x 8 mm



RESISTENCIA



LIGEREZA 15 kg/m<sup>2</sup>



EXCELENTE COMPORTAMIENTO  
ANTE EL FUEGO

A2, S1-d0



RESISTENCIA A HIELO



DURABILIDAD



RESISTENCIA A HONGOS E INSECTOS



MÍNIMO MANTENIMIENTO





## Classification *A2-s1,d0*

EQUITONE fiber cement materials, according to European standard EN 13501-1, easily meet the As-s1, d0 classification:

### **A2** - No or negligible contribution to fire

- The smoke development indicator in the SBI (Single Burning Item) test refers to the total smoke emitted during the first 10 minutes of fire exposure:

### **s1** - Low or very low smoke level

- The addition to the formation of burning droplets/particle refers to the number of these produced in the first 10 minutes of fire exposure:

### **d0** - No dripping

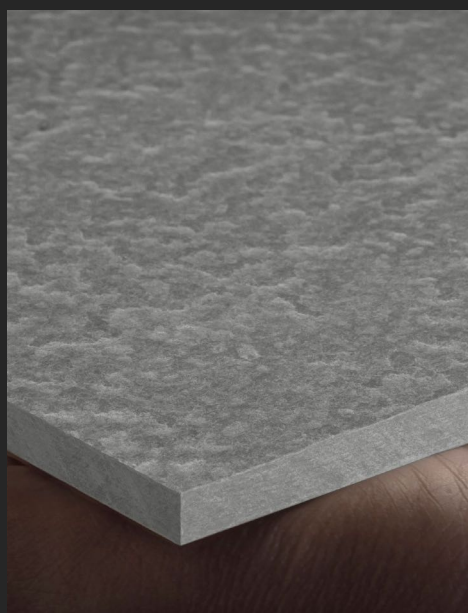




## SMALL SCALE



EQUITONE [linea]



EQUITONE [lunara]



EQUITONE [tectiva]



EQUITONE [natura]



EQUITONE [pictura]





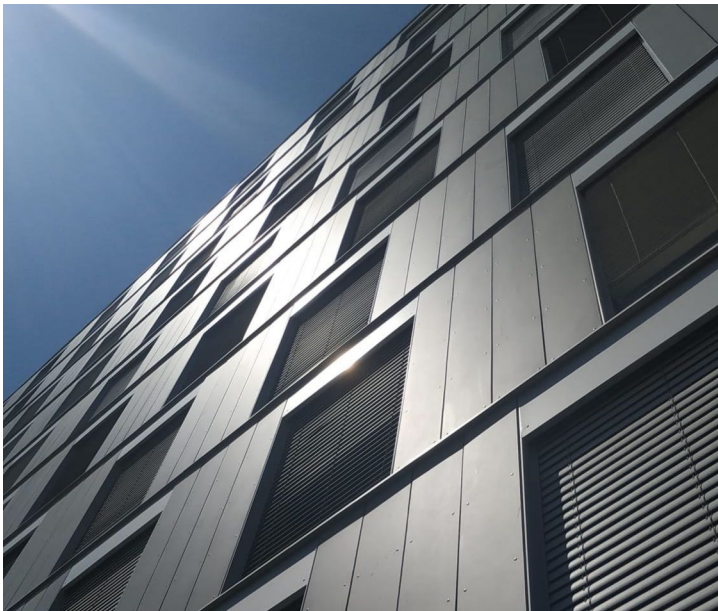
## WORKSHOPS WITH ARQUITECTOS

*"...we must understand fiber cement not as a closed  
PRODUCT that fulfills a function, but as a MATERIAL that  
allows us to articulate an architectural discourse."*

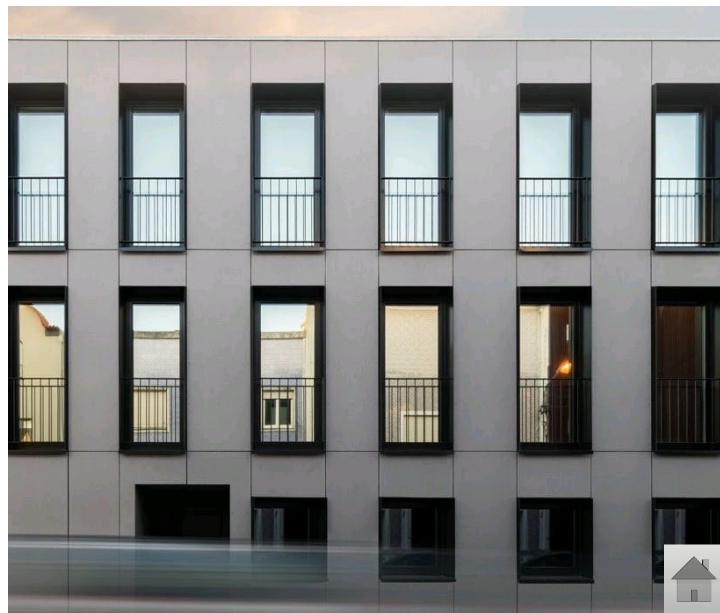
AIRES MATEUS







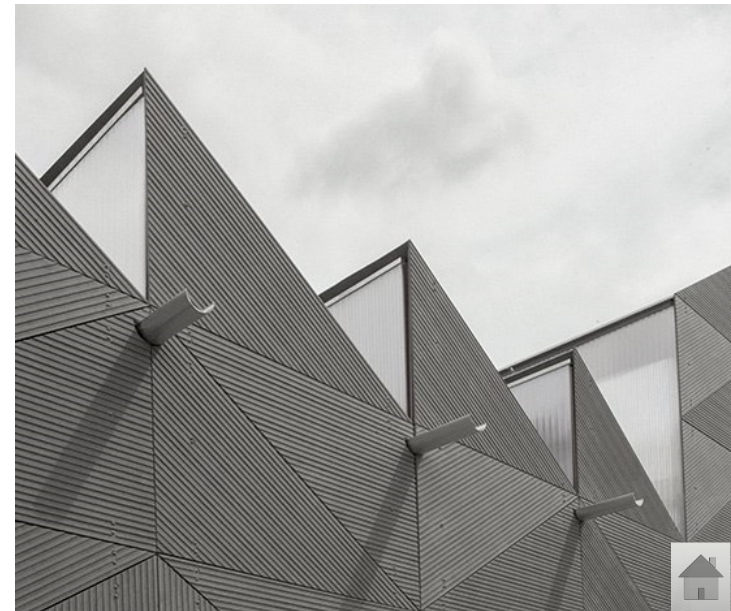
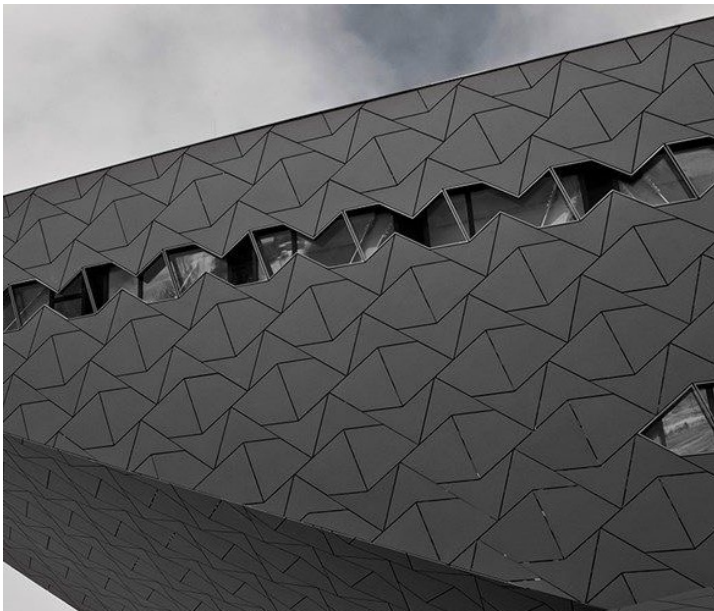
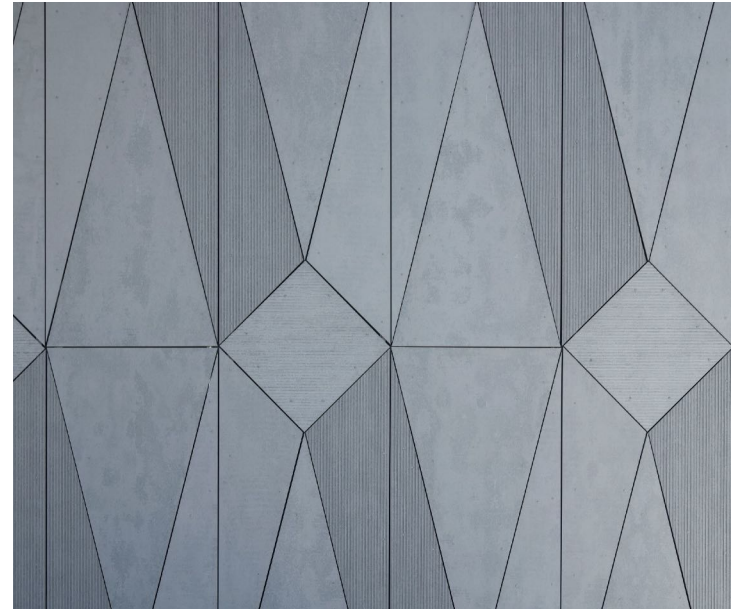




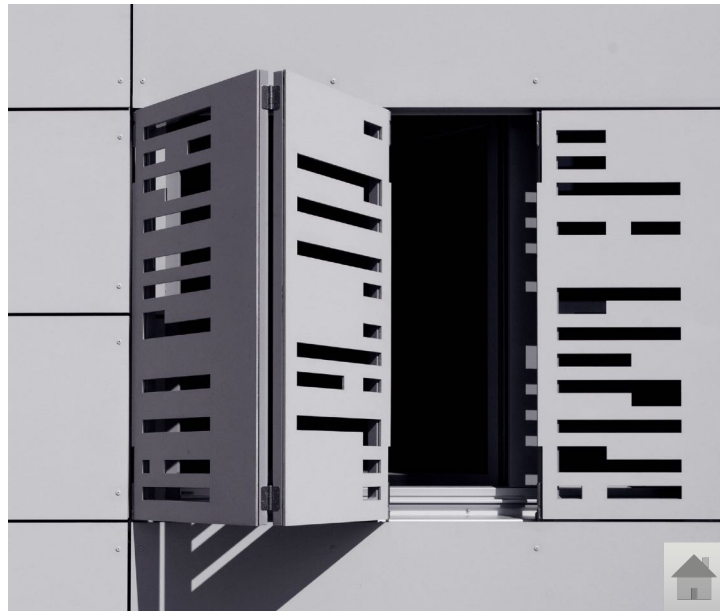
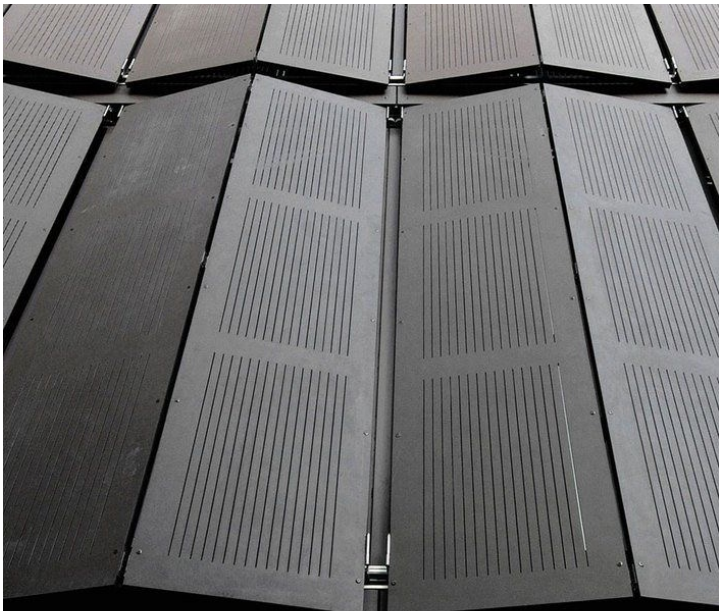
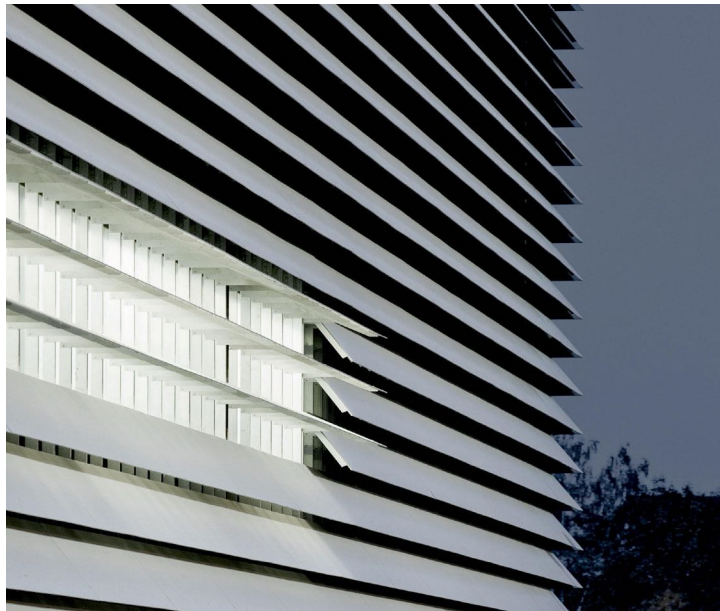














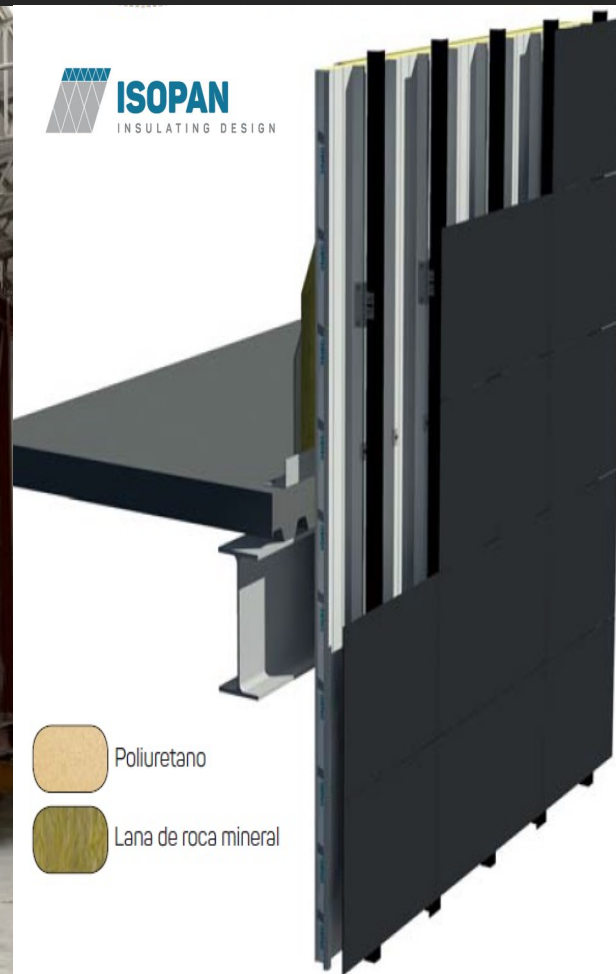
A-ceroTECH



NEOBLOCK  
BUILD YOUR WORLD.



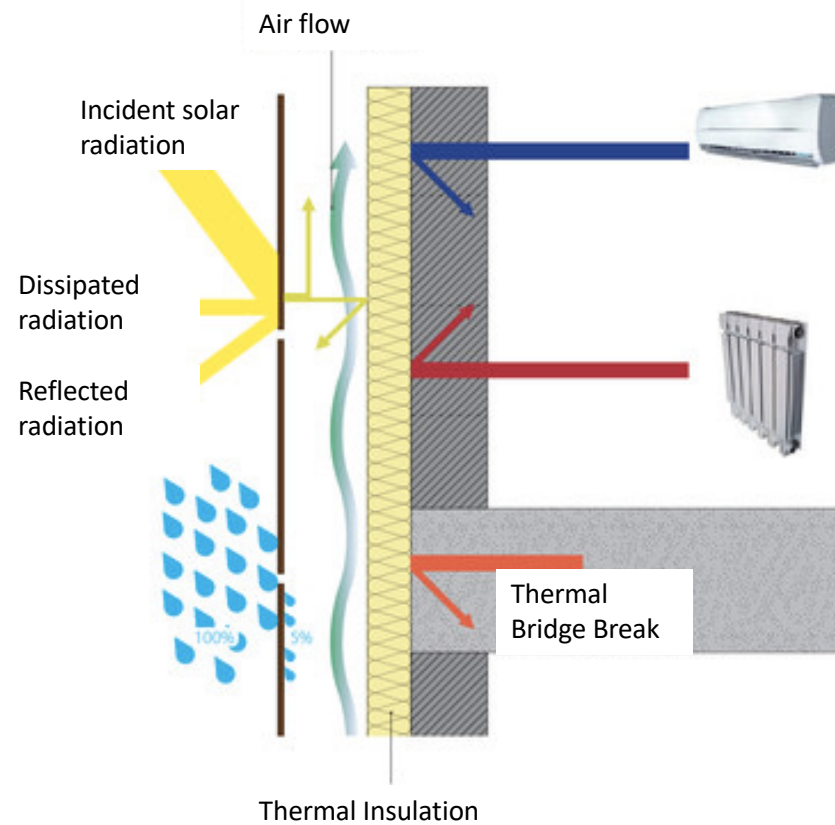
ISOPAN  
INSULATING DESIGN



- Poliuretano
- Lana de roca mineral

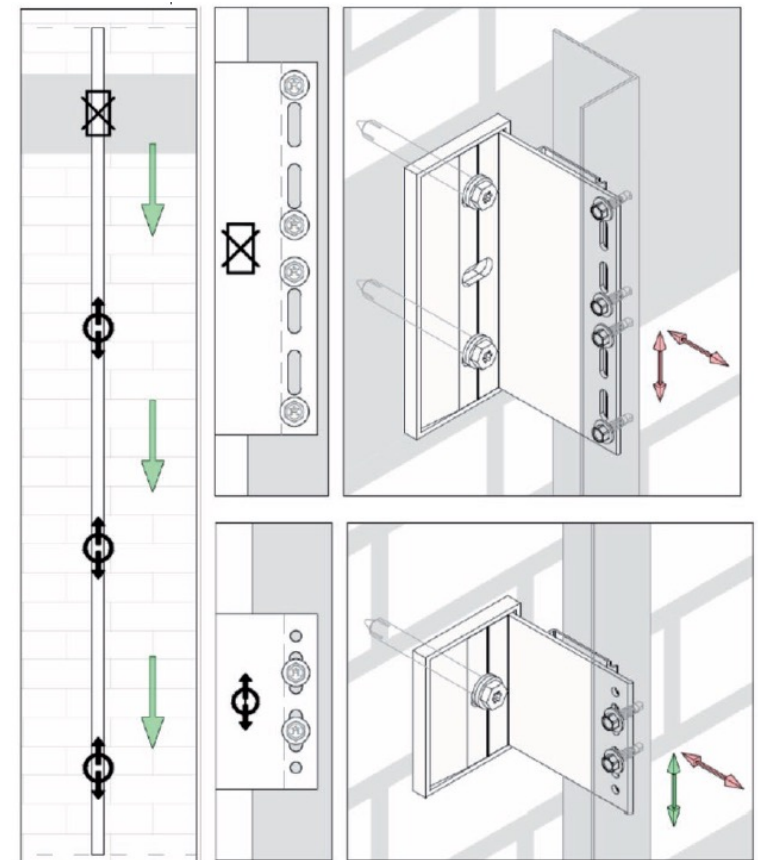
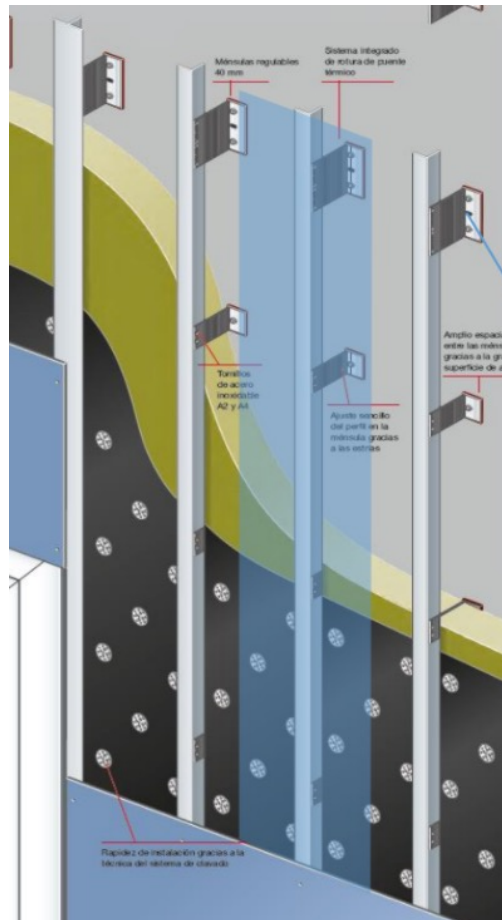


# THE FUNCTIONALITY OF THE VENTILATED FACADE



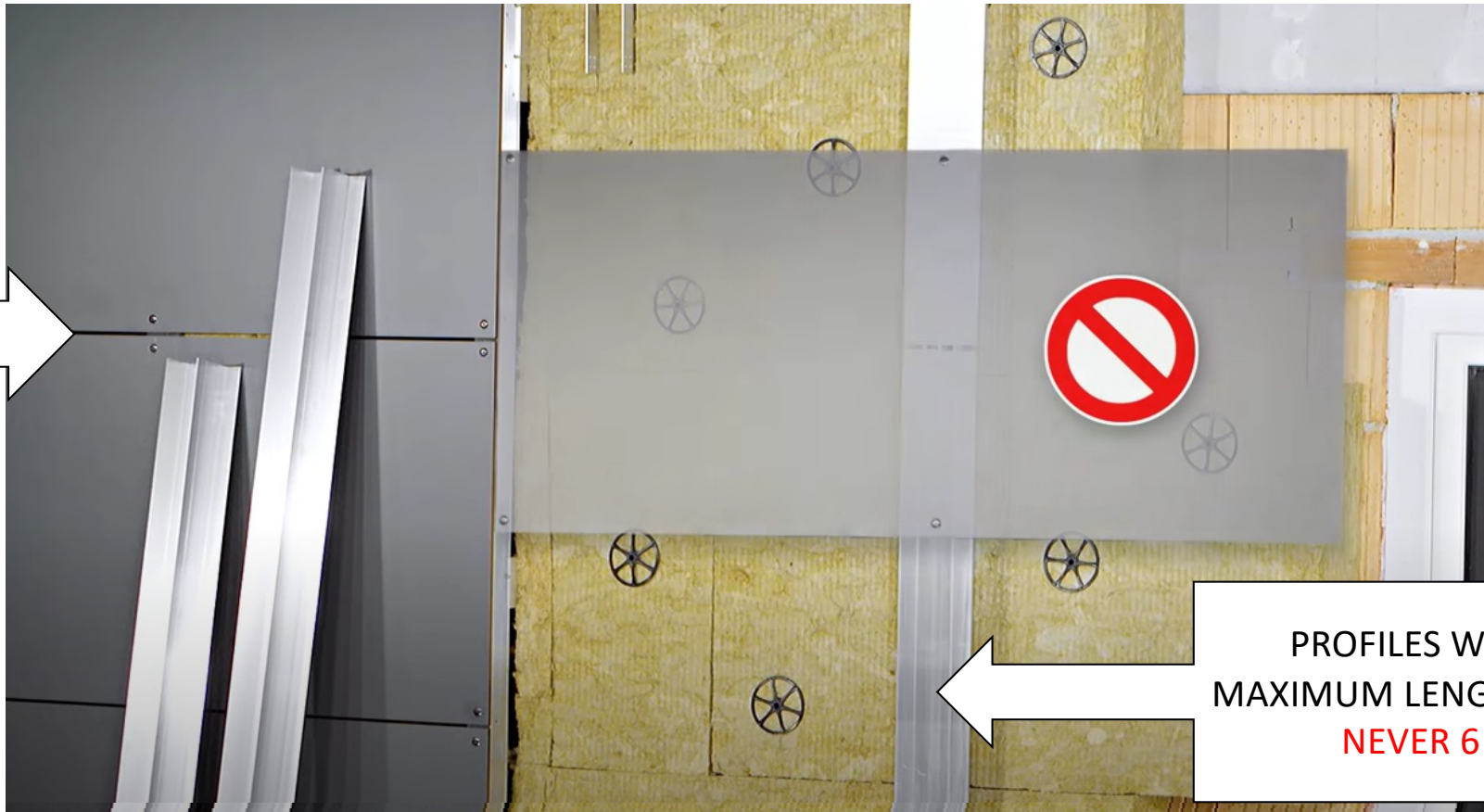


## 1-PROFILES FIXED TO THE BASE MATERIAL



## 1-PROFILES FIXED TO THE BASE MATERIAL

JOINT  
BETWEEN  
PANELS:  
8-12 mm



PROFILES WITH A  
MAXIMUM LENGTH OF 3m  
**NEVER 6 m**



## 2- FIXING THE PANEL TO THE PROFILES

### FIXING SYSTEMS:

#### A. MECHANICAL FIXTURES:

A. STEEL/ALUMINUM RIVET

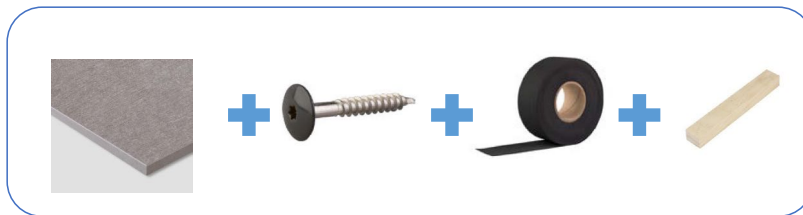
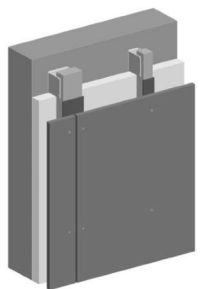
B. WOOD SCREW

#### B. MECHANICAL HIDDEN:

A. NV3 HANGING SYSTEM

#### C. CHEMICAL FIXTURES

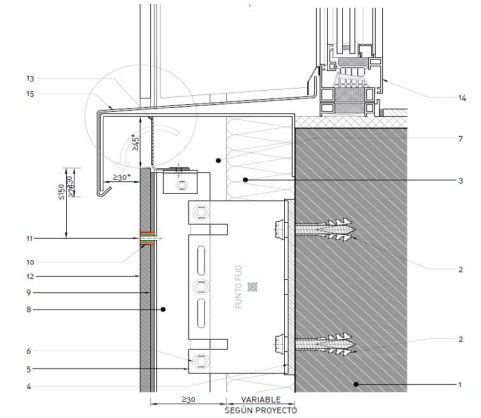
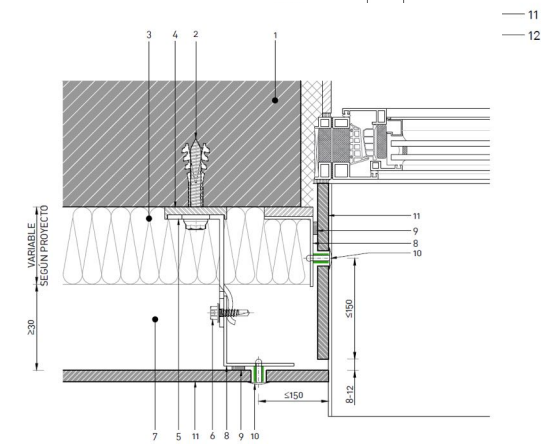
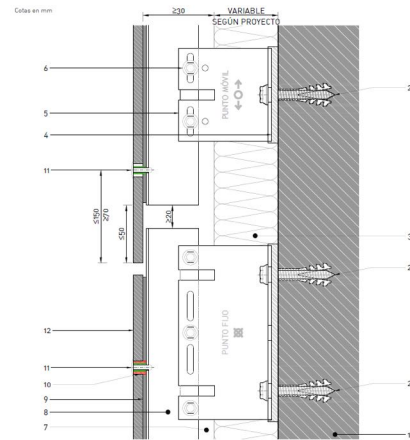
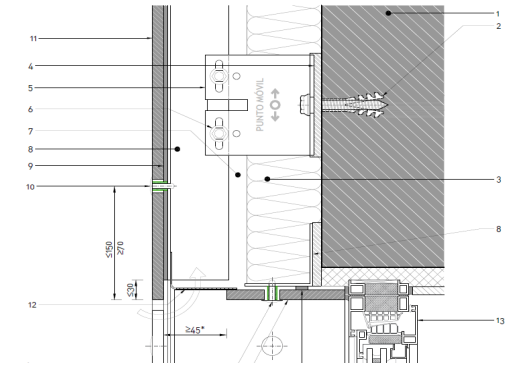
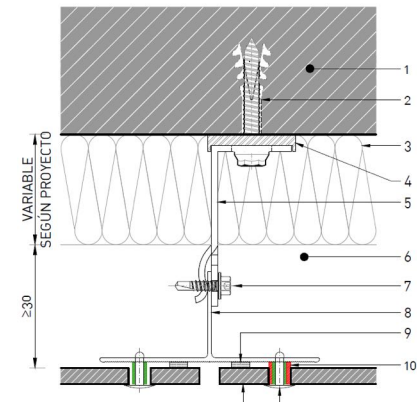
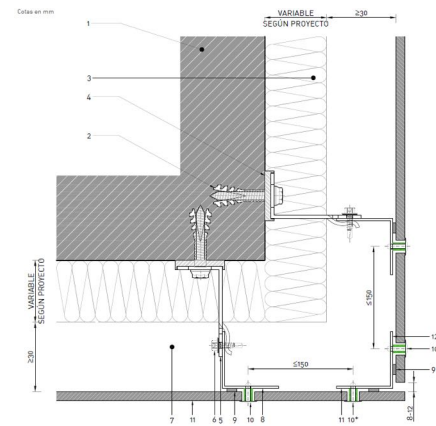
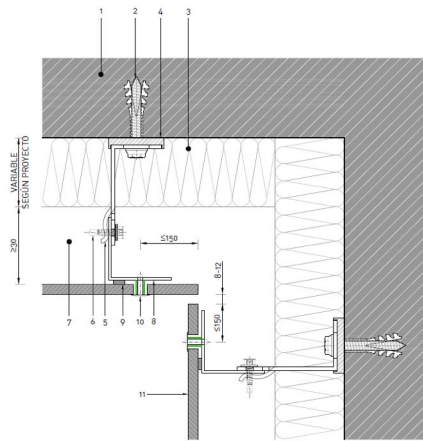
A. ADHESIVE TO PROFILE







# VENTILATION AND DETAILS



\*Medida orientativa. Debe garantizarse un área efectiva de orificio y ancho suficiente para la ventilación de la cámara.



## Building for tomorrow, reducing impact today

Since 1905, we have been developing, designing and shaping lightweight and long-lasting fibre-cement building solutions.

Today, we're shifting our focus to what lies beyond, aiming to re-use and recycle all our materials, giving them a second life.

We commit to producing with less, designing for reuse and collaborating radically across industry silos to build solutions with more lives than one.



Our journey started in 2020. We don't just want to make bold commitments for the future - we want to drive fact-based & transparent conversations and support you



# Facing the facts

The building and construction sector is responsible for...



**40%** of all energy-related carbon emissions  
Unep.org



**> 35%** of the EU's total waste generation  
Ec.europa.eu

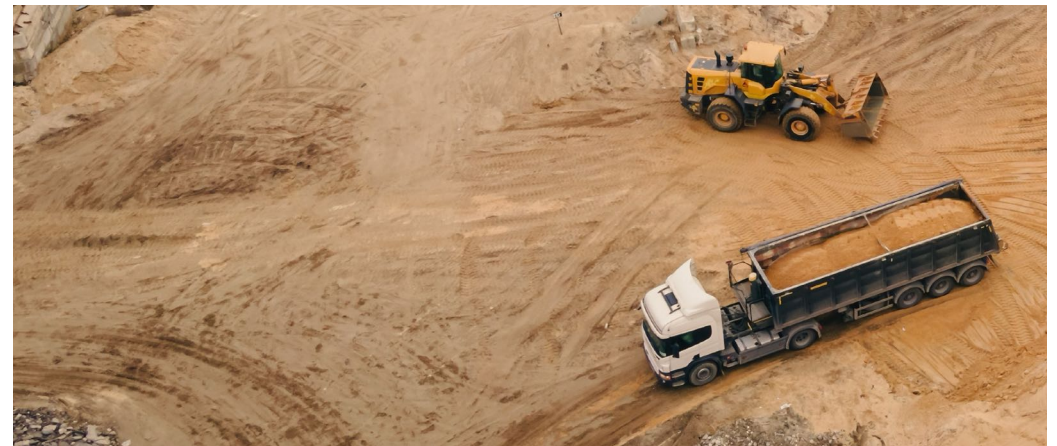


**50%** of all extracted materials  
Ec.europa.eu

Today, our sector depends heavily on virgin materials and production processes, depleting our natural energy resources and throwing natural systems off balance.

The construction industry has a big impact, but that also means we can be an important part of the solution. We prefer to be the latter.

We want to use our unique position as a global material supplier to help transform the industry from within and inspire new ways of living.



# Carbon emissions in Buildings explained

Building for tomorrow,  
reducing impact today

By the year 2050, almost  
half of the carbon footprint  
in new construction will  
come from embodied carbon

Source: CarbonCure





# Our 3 areas of focus

How we want to go from long life and lightweight to light impact and circular by design



## CIRCULAR DESIGN

### What we're doing TODAY...

We design systems that aren't just fully recyclable but also easy to dismantle, repair and rebuild.

### How we're investing in TOMORROW...

We're taking full responsibility for our materials, aiming to keep them in use and out of landfill, and eliminating waste across our value chain.



## LIGHT IMPACT

### What we're doing TODAY...

Our materials are designed to reduce primary resources, and allow for modular construction across their lifetime.

### How we're investing in TOMORROW...

We're pioneering new material technologies for light-impact building to offer inspiring new ways of building better for the future.



## RADICAL COLLABORATION

### What we're doing TODAY...

We share where we started and where we are going to push for honest conversations on building materials in our industry.

### How we're investing in TOMORROW...

We are bridging industry silos to find shared solutions and inspire a new generation of thinking in our industry.



# Circular design

Our façade materials are designed as a modular system and meet the basic principles of circular construction:

- Our materials are resource efficient by nature
- Easy to attached, adjusted or selectively dismantled
- Highly durable, with long product life cycles
- Easy to repair and very easy maintenance
- Modular for when a building is being retrofitted
- Ready to be recycled

We want to collect and valorise EQUITONE waste across the value chain. Our circularity roadmap shows our step-by-step approach to working on reductions: circular content in design, zero waste sent to landfill, take-back and reuse, and innovation.



Modular



Easy to  
dismantle



Durable  
+50 years



Lightweight



Ready to  
be recycled

Circularity in practice

## MODULAR

[View Case](#)



## MINIMAL WASTE

[View Case](#)



## REUSE

[View Case](#)





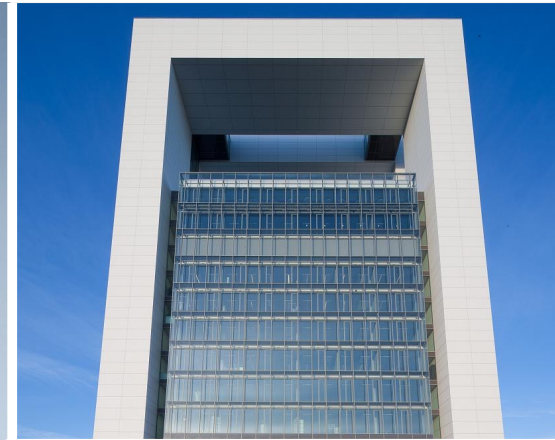


# INNOVA Tower

Venlo



Architect: Jo Coenen



EQUITONE



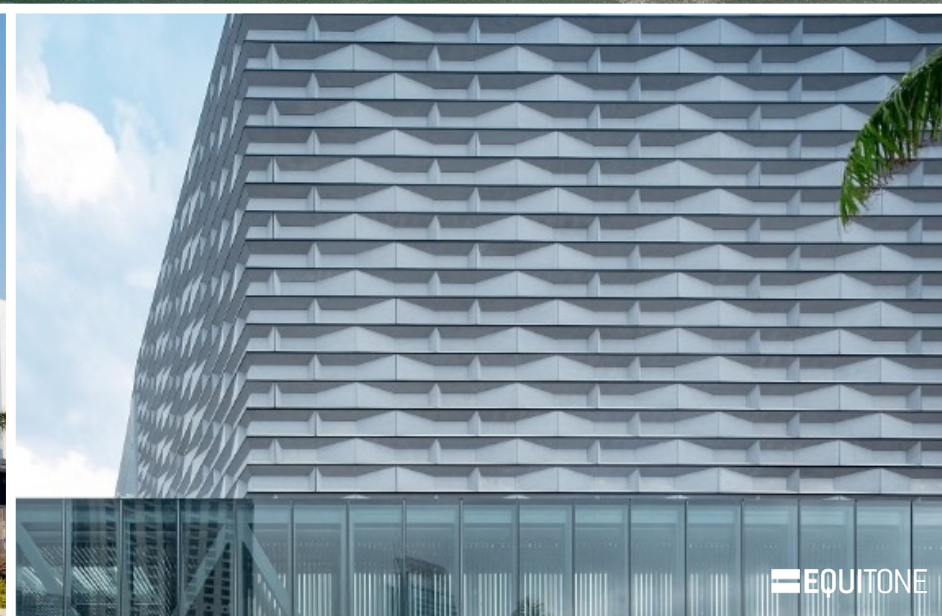


# Museum of Art

Hong Kong



Location: Hong Kong  
Architect: Vivien Fung  
Material: EQUITONE[tectiva]



EQUITONE





# Warehouse

Germany



Location: Niederstetten, DE  
Architect: Ecker Architects  
Material: EQUITONE [natura]

EQUITONE



# Recyclinghaus

Hannover



BEFORE

AFTER



Location: Hannover, Germany  
Architect: Cityförster  
Material: EQUITONE [natura]

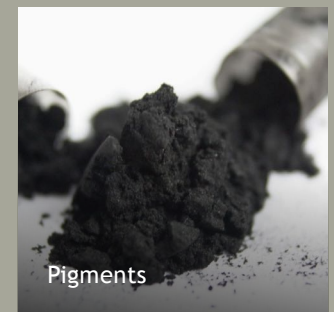
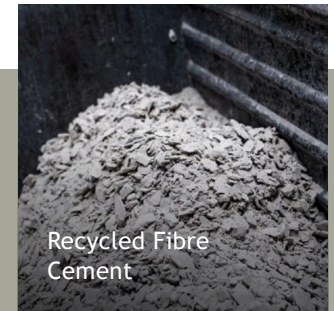
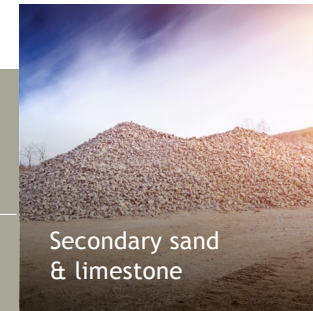
EQUITONE



# Circular content in the design of our materials

Etex Exclusive technology

Partnership with key players



|                |       |                       |
|----------------|-------|-----------------------|
| Renewable      | 8%    | Cellulose (wood pulp) |
| + Cement       |       | 5,9%                  |
| + Pigment      |       | 3,0%                  |
| = Recycled     |       | 8,9%                  |
| Total circular | 16,9% |                       |

Example: EQUITONE [tectiva] TE20 = 16.6% circular content

# Circular content in the design of our materials

With the circular content of our materials, we want to provide full transparency on the portion of avoided virgin or non-renewable material in our products to preserve natural resources

## Recycled

Diverted from the solid waste stream, excluding packaging. They can be split in pre- & post-consumer.



## Renewable

The portion of materials used in the product that is composed of biomass from a living source and that is replenished



## Other - waste derived

Diverted from a waste stream in the same production process

## Circular content\* 2024

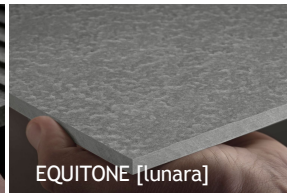
20%



EQUITONE [tectiva]



EQUITONE [linea]



EQUITONE [lunara]

3%



EQUITONE [natura]



EQUITONE [textura]



EQUITONE [pictura]

## 2030 TARGET



20%  
circular content  
in all products\*

**EQUITONE**  
Fibre cement facade materials

Recycled Content & Circular Content Declaration  
EQUITONE [linea]

Date of issue: 17.06.2024

**Providing transparency where it matters**

For fibre, waste is not a waste but a valuable source which can be repurposed and turned into something new. We are committed to reducing the use of virgin and non-renewable materials by optimizing our current processes related to waste management and developing responsible sourcing, through innovation and partnerships.

Transparency is at the heart of our sustainability journey. This Circular Content Declaration Form aims to provide clear and transparent information to our customers and stakeholders to understand the environmental impacts of our products and achieve credits in several programs where the use of circular products is recognized and encouraged.

|                        |                             |                                                        |                 |
|------------------------|-----------------------------|--------------------------------------------------------|-----------------|
| Product                | HYDRO PANEL*                | Reference year of production data used for calculation | 2023            |
| Manufacturing location | Kapelle-op-den-Bos, Belgium | Followed Standard                                      | ISO 14044: 2018 |
| PROMATECT®-H RWL/HCM - |                             | Recycled Content / Renewable                           |                 |

Recycled content claims meet definition prescribed in ISO 14021: 2016

Environmental labels and declarations - Self-declared environmental claims (Type II Environmental labelling)

|                                          |       |                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recycled content (%)                     | 5.9%  | Recycled content refers to the portion of materials used in the product that have been diverted from the solid waste stream, including packaging. If those materials are diverted during a different manufacturing process, they are referred to as pre-consumer. If they are diverted after the product was bought by a customer, they are referred to as post-consumer. |
| Pre-consumer recycled material (%)       | 5.9%  |                                                                                                                                                                                                                                                                                                                                                                           |
| Post-consumer recycled material (%)      | 0%    |                                                                                                                                                                                                                                                                                                                                                                           |
| Other waste-derived material content (%) | 4.8%  | Refers to the portion of materials used in the product that have been diverted from waste stream in the same production process in addition to byproducts, i.e. materials that are not deliberately produced in a production process.                                                                                                                                     |
| Renewable material content (%)           | 7.9%  | Refers to the portion of materials used in the product that is composed of biomass from a living source and that is replenished.                                                                                                                                                                                                                                          |
| Total circular content (%)               | 18.5% | Refers to the portion of avoided virgin or non-renewable material used in the product to preserve natural resources.                                                                                                                                                                                                                                                      |

Disclaimer  
The data contained in this publication are based on current knowledge and experience. All information contained in the document is given in good faith, referring to ETOX Product Content Assessment rules document v1 (available upon request) and is based on sources believed to be the most reliable at the date of publication of this document.

**IN PROGRESS**

\* Max circular content Nov. 2024





## Unlocking fibre cement recycling as cornerstone for our circular journey



Currently, FC waste disposal options mainly include landfilling or low-value downcycling options.

As part of the Road to sustainability roadmap we want to fully close the loop towards waste take-back and high value upcycling.

# Carbon sink



## What is the carbon sink effect?

Over the lifetime of the product, EQUITONE will adsorb  $\text{CO}_2$  from the atmosphere, creating a carbon sink effect. In the EPD's it can be seen as negative GWP values in B1 (use).

The amount of absorbed  $\text{CO}_2$  highly depends on the exposure conditions during the use phase. For EQUITONE, the use scenarios "outdoor, exposed to rain." is calculated and can impact from 15% up to 40%



The advantage of FC can be found in the fact that we have a low ratio surface/thickness compared to f.e. concrete









AV. DA REPÚBLICA 84, LISBOA





PINES URBAN





AV. ALMIRANTE REIS 101, LISBOA



RUA CASTILHO 26, LISBOA





CENTRO DE SAÚDE, PORTO COVO





# Thank You!

