

STORK

SEAMLESS BEAUTY. SOLID EFFICIENCY.



AULA ABERTA – IPT

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1. PRODUCT / SERVICE DESCRIPTION CONCEPT

STORK was developed under **two major premises**.

To develop

- lightweight** product that would allow the use of natural stone in a wide range of applications.
- sustainable** product using natural stone.



Which **natural and sustainable material** should we add to natural stone to comply with these two premises?

CORK!



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1. PRODUCT / SERVICE DESCRIPTION CONCEPT

WHY CORK?

The cork agglomerate used at Stork's composition:

- is **lightweight**.
- is **produced with industrial waste** from the cork stopper production process.
- is composed of 96% cork and 4% polyurethane resin.
- has a **negative ecological footprint** because the oak tree absorbs CO2 during its life cycle.
- is a **thermal** and an **acoustic** insulator.



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1. PRODUCT / SERVICE DESCRIPTION CONCEPT

SUSTAINABILITY

We **RESPECT NATURE** and we believe that enhancing its beauty and the capacity of its resources is essential.

For that reason, **STORK production method** allows:

- to **maximize at least 50%** the amount of stone used.
- to **enhance** stone materials with **low mechanical properties**.
- to **reduce the amount of waste** generated during industrial processing.



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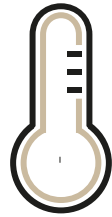
1. PRODUCT / SERVICE DESCRIPTION

INCREASED ARRAY OF BENEFITS ON ALL LEVELS



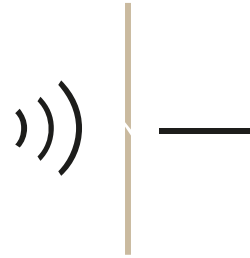
WEIGHT

Up to over 50% weight reduction per square meter which leads to significant cost savings on transport and handling, resulting in lower installation times and easy maintenance and repair.



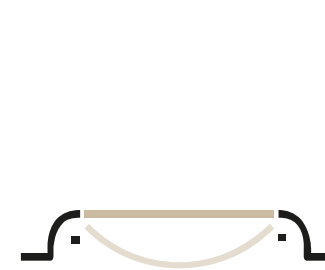
THERMAL

30 % increase in thermal efficiency when compared to natural stone. Thermal insulation compatible with major insulation projects using cork.



ACOUSTICS

10 % reduction in noise transmission when compared to a standard natural stone. Improved sound absorption.



ELASTIC RECOVERY

Shape-memory solution when compared with standard lightweight stone cladding products.



IMPACT STRENGTH

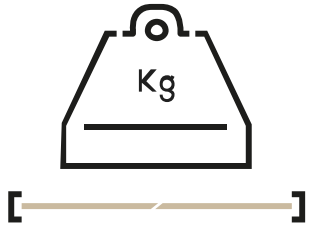
3 x higher impact strength and higher energy absorption when compared to conventional stone solutions or other brittle materials

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INCREASED ARRAY OF BENEFITS ON ALL LEVELS



DURABILITY

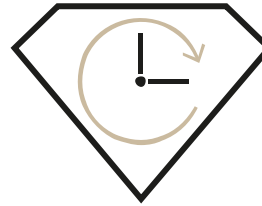
Core Adhesion

STORK resists to a higher number of ageing cycles due to its composite DNA.



MOISTURE PROOFNESS

Cork composite layer allows suitable flooring installation, **enhancing stone capacity to react moisture.**



AGEING & DYNAMIC ENDURANCE

STORK is the only natural stone cladding product **not showing relevant damage after 10 million load cycles** (2 times higher than regular service load).



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1. PRODUCT / SERVICE DESCRIPTION

STORK ANY STONE

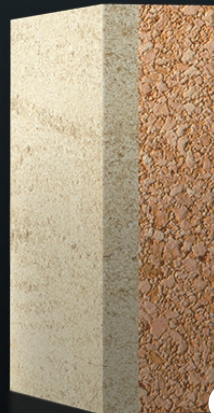
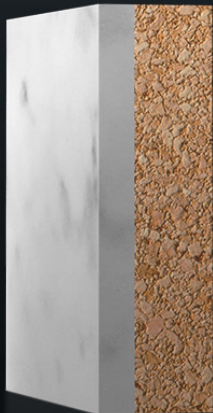
Available in different dimensions

DIMENSIONS

Maximum Standard Dimensions: 2150x1200mm.
Other dimensions available upon request.

THICKNESS

Total Thickness: 15 to 30mm.
5 to 10mm of natural stone.



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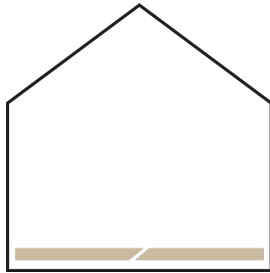
SEAMLESS BEAUTY. SOLID EFFICIENCY.

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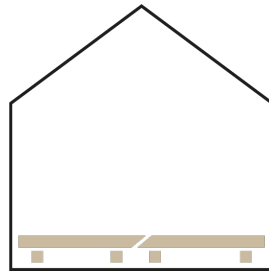
INCREASED RANGE OF APPLICATIONS AND NEW POSSIBILITIES



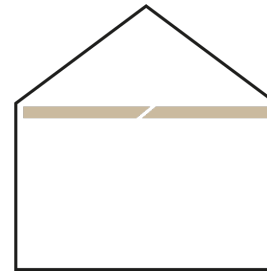
Interior Walls



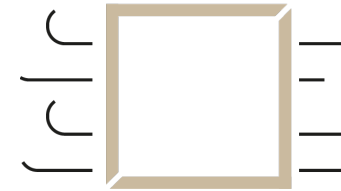
Flooring



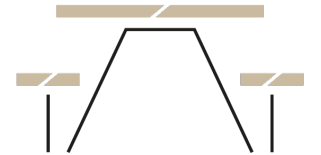
Access Floors



Ceilings



Ventilated Facades



Special Projects

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STORK SERVICES

PLANNING

STORK engineering & architectural team helps you making a more efficient project management.

DESIGN/ENGINEERING

Turnkey solutions to suit your needs, from sketch to client handover.

CUSTOM SAMPLES

Custom samples are available upon request. We will gladly take your call or email.

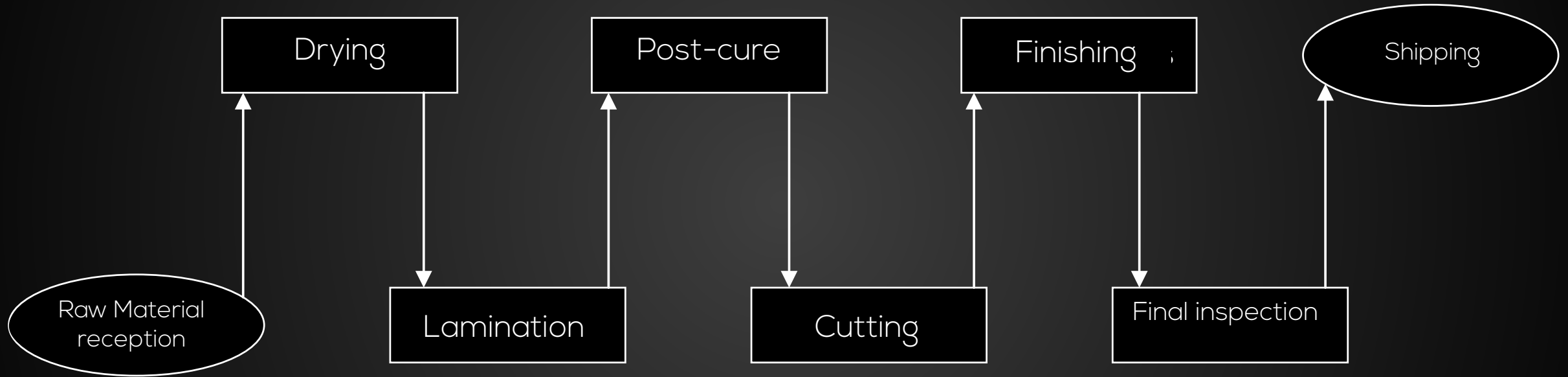
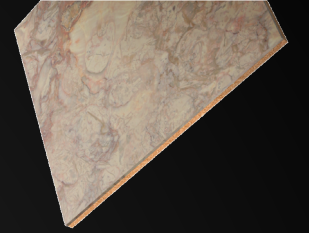


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2. PRODUCTION MODEL

PRODUCTION FLOW



3. PORTEFOLIO

MAIN PROJECTS



HOSPITAL DA LUZ

Application: Ventilated Ceiling

Location: Lisbon, Portugal

Quantity: 754 sqm

Natural Stone: Pele de Tigre Marble

Surface finish: Bushhammered

Dimension: 1,5x1 m

Stone thickness: 7 mm

Cork thickness: 15 mm

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3. PORTEFOLIO

MAIN PROJECTS

PRIVATE HOUSE

Application: Ventilated Ceiling

Location: London, UK

Quantity: 20 sqm

Natural Stone: Moca Creme

Surface finish: Honed

Dimension: 1,5x1,2 m

Stone thickness: 6 mm

Cork thickness: 10 mm



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3. PORTEFOLIO MAIN PROJECTS



SHOPPING MALL

Application: Stone Door w/
pivoting system

Location: Bahrein

Quantity: 20 sqm

Natural Stone: Picasso Marble

Surface finish: Honed

Dimension: 2,14x0,99 m

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3. PORTEFOLIO

MAIN PROJECTS

PRIVATE HOUSE

Application: Raised Floor

Location: Lisbon, Portugal

Quantity: 25 sqm

Natural Stone: Lioz Abancado

Surface finish: Brushed

Dimension: 0,9x0,45 m

Stone thickness: 8 mm

Cork thickness: 15 mm



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3. PORTEFOLIO

MAIN PROJECTS

MEM MARTINS HEALTH CENTER (on going)

Application: Wall cladding

Location: Mem Martins

Quantity: 220 sqm

Natural Stone: Blue Moleanos

Surface finish: Honed



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3. PORTEFOLIO MAIN PROJECTS

DESIGN & FURNITURE



Design by Branca Lisboa, 2019

CoffeeT Restaurant @Paço de Arcos, 2019



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Design by Branca Lisboa, 2020

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3. PORTEFOLIO

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DESIGN & FURNITURE



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3. PORTEFOLIO MAIN PROJECTS

DESIGN & FURNITURE



A Festa das Mesas by Decoralista, 2019



4. COMPETITION

COMPETITIVE ADVANTAGES FROM STORK

- STORK offers much better **thermal and acoustic insulation**;
- STORK total system thickness lower than honeycomb systems **allows transport of more m² / volume**, logistics advantage.
- STORK offers greater **resistance to fatigue** and is more capable to sustain deformation;
- STORK has a much **lower carbon footprint**;
- STORK is more **friendly used by installers** (easy to cut to size; handling; installation)
- STORK is used in a much **wider arrange of applications** (design and furniture – not applicable by honeycomb solutions);

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THANK YOU!

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www.stork-composites.com