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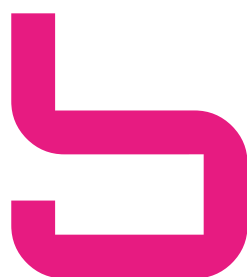
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THE[®]
ITALIAN
LAB

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EXPERIENCE AND EXPERTISE TO BUILD CONCRETE REALITIES

Thanks to the latest technology and a floor area of more than 2.000 square meters, ensuring high quality materials and finishes, **THE ITALIAN LAB UHPC** produces high performance concrete products, offering also customized products.

The peculiarity of our mixtures comes from our territories, the local sands mix up with the experience and expertise of our technicians to build concrete realities.



Our industrial facilities cover a floor area of more than 2.000 square meters. The manufacturing process is controlled by a software, which ensures a high efficiency of the system and high quality products.



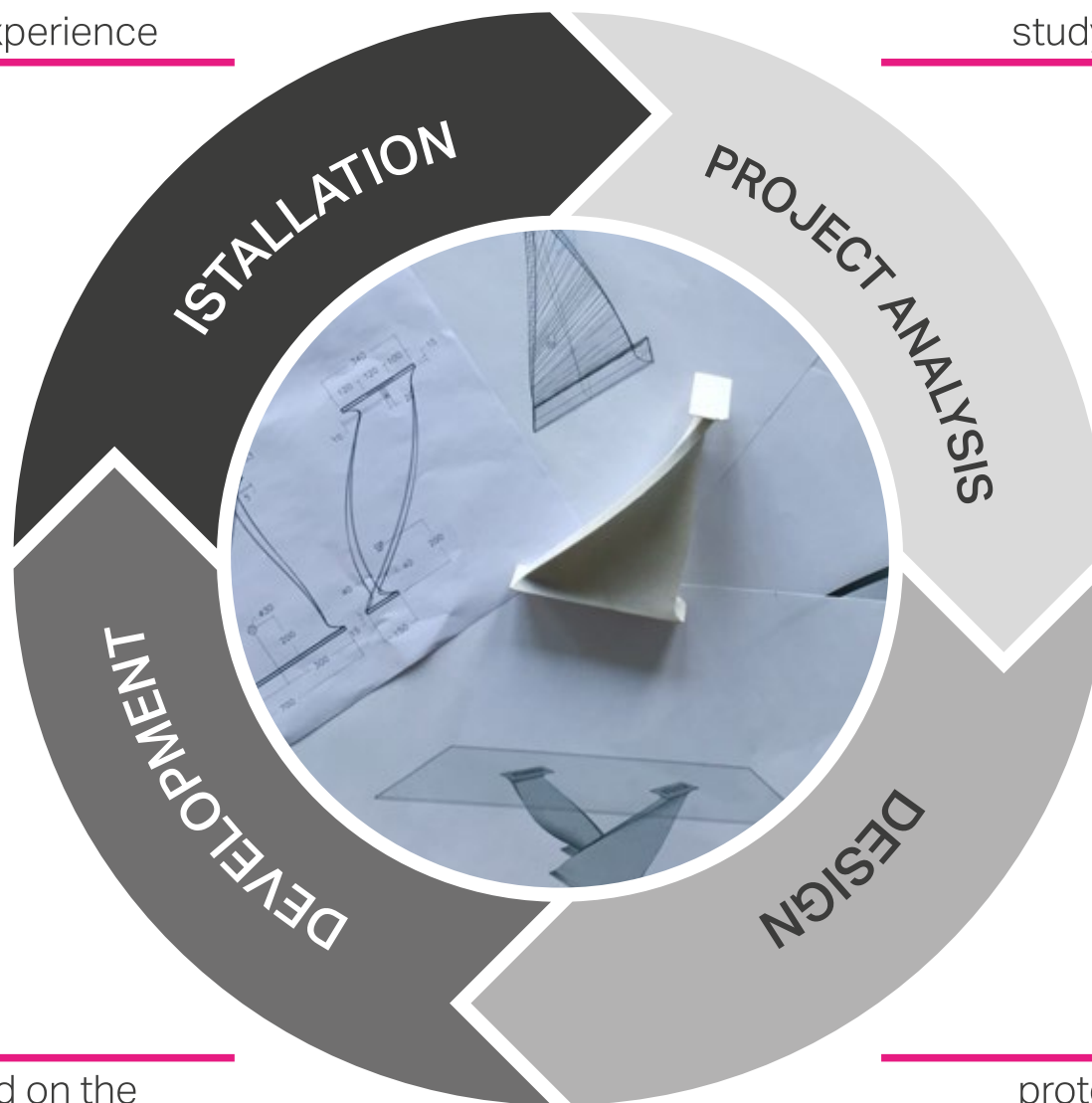
TAYLOR MADE

- Like the tailors of the past, we develop
CUSTOMIZED IDEAS

THE STEPS from **CONCEPT** to *FINISHED PRODUCT*

with our partners experience

on the customer side, we
study the better solutions



of the mixture based on the
type of product

prototyping, manufacture
of the moulds



The UHPC (Ultra High Performance Concrete) is a “GREEN” material, as it does not include resins or plastic components, and it has several important technical features:

- *Impermeable*
- *High-durability (2 to 3 times longer than that of conventional concrete)*
- *Customizable textures (using appropriate moulds)*
- *Customizable colours of the mixture*
- *Freeze/Thaw Resistant*

■ TECHNICAL FEATURES



Mass-coloured



*Freeze/Thaw
Resistant*



*50% more flexible
than conventional concrete*



*Impermeable to
infiltrations*



*Class M0/A2
flame-retardant*



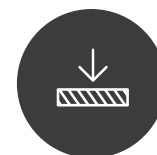
Customized surfaces



Mouldable shapes



Abrasion resistant



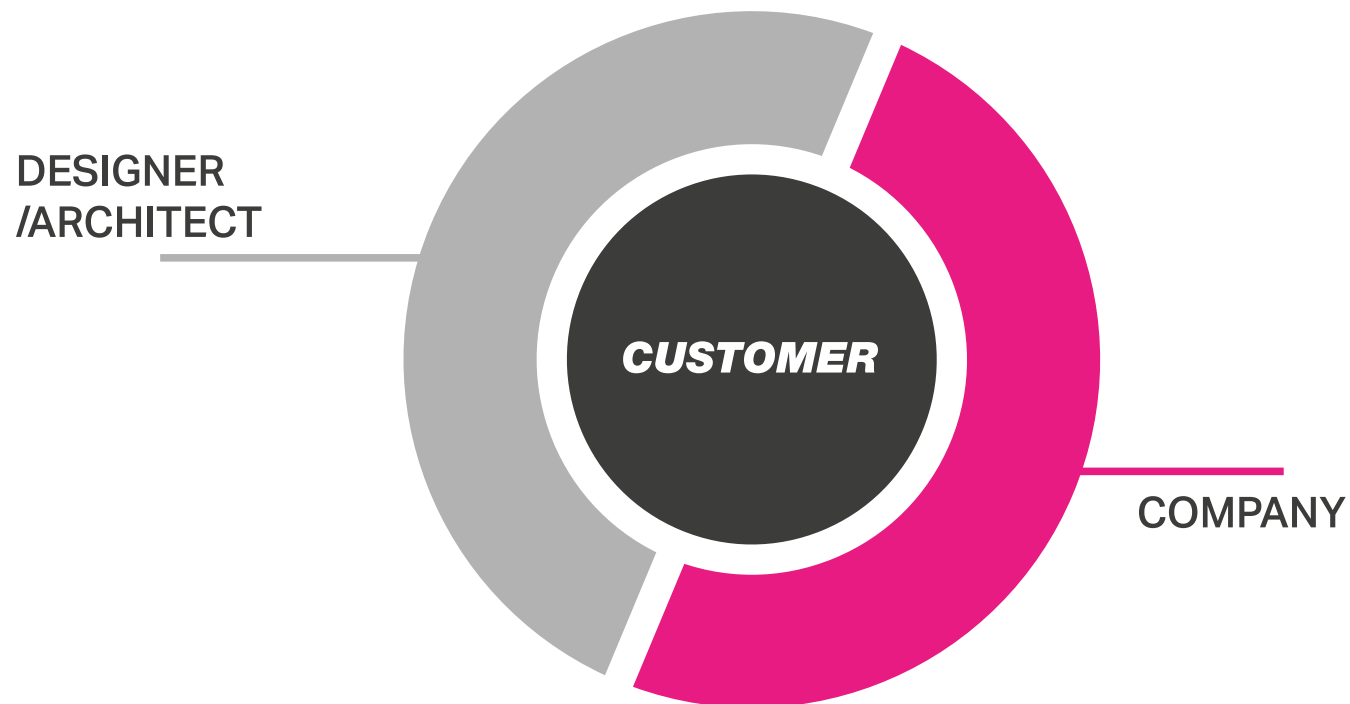
*8 times more compressible
than conventional concrete*

Compressive strength $\geq 120 - 140 \text{ MPa}$
Flexural strength (matrix) $\geq 15 - 18 \text{ MPa}$
Thickness $\geq 3 \text{ mm}$

Flexural strength (reinforced) $\geq 20 - 25 \text{ MPa}$
Fracture energy 55 kN/m
Carbonation $1.5 \text{ mm after 3 years}$

MATERIAL FLEXIBILITY

THE ITALIAN LAB UHPC produces customized mixtures based on customers' needs adjusting the compression resistance, flexure and porosity, using local raw materials and bringing down CO₂ emissions.



CUSTOMER REQUEST OF PRODUCT MANUFACTURE

DESIGNER/ARCHITECT DEVELOP OF CUSTOMER'S GUIDELINES

COMPANY DEVELOPMENT OF THE MIXTURE BASED ON THE TYPE OF PRODUCT

PRODUCTS



STREET FURNITURE

Our street furniture consist of seats and benches, bins, planters, bike racks, bollards, and tree guards.

You can find the complete range of street furniture on the website:

[*www.theitalianlab.it*](http://www.theitalianlab.it)



INDOOR FURNISHINGS

Our indoor furnishings consist of coffee tables, stools, shelves, lamps, newspaper racks, and seats.

PRODUCTS

FACADE

Panels and other elements that make buildings increasingly attractive, with organic and geometrical forms.



COATINGS FOR COOKER HOODS AND KITCHENS

Coating panels for cooker hoods, kitchens doors and furniture.



DECORATIVE COATINGS FOR INDOOR USE

Our decorative coatings for indoor use consist of panels of different sizes and shapes, to be mounted on walls, masonry partitions or prefabs.



FINISHES



WOOD



SLATE



LEATHER



SANDBLASTED



SMOOTH



ORGANIC FORMS



Via L.Savio, 6 – Vallenoncello – 33170 Pordenone – ITALY
+39 0434 570078 - info@theitalianlabuhpc.it www.theitalianlabuhpc.it

