HiCON



FACADES

in Ultra High Performance Concrete



WE TURN YOUR FACADE DREAMS INTO REALITY

Facades from Hi-Con are tailor-made, prefabricated element solutions that add value for architects, engineers, contractors, developers, and users alike. We create facades in Ultra High Performance Concrete (UHPC) for buildings where both strong design and functionality are important. Our slim facade elements utilize the properties of UHPC to create truly unique architecture.

CONSULTATION IS AN INTEGRAL PART OF OUR SERVICE

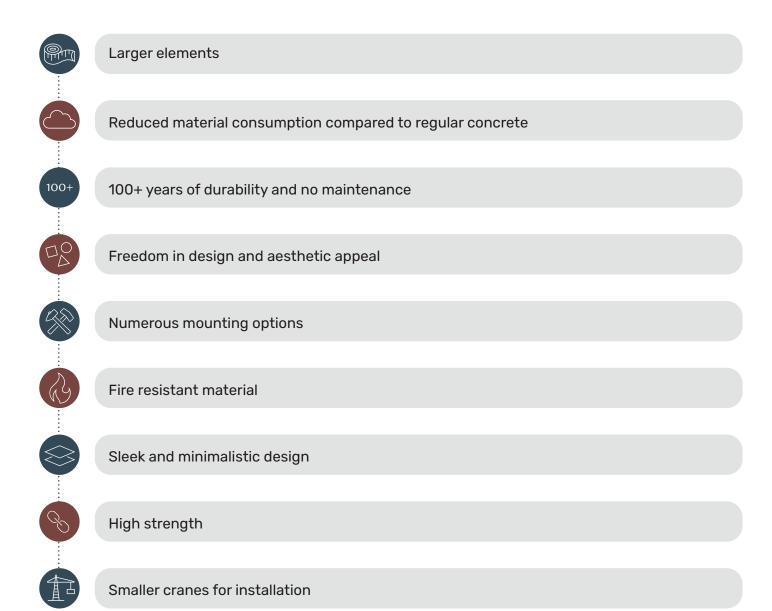
When choosing a facade solution from Hi-Con, our knowledge and advice are always included as part of the package. Early in the process, we are ready to talk with you about design and mounting principles and together, we can create the optimal facade solution.

With Ultra High Performance Concrete, there is a wealth of possibilities for combining function, shape, and mounting principles. And we are more than happy to contribute our knowledge and experience.

This brochure presents several of our references.

We hope you will be inspired.

BENEFITS OF ULTRA HIGH PERFORMANCE CONCRETE





CURTAIN WALLS

Curtain Walls from Hi-Con can be developed and produced with an aesthetic goal in mind but can also function as sun shields.

Hi-Con's generation of Ultra High Performance Concrete, CRC i2®, makes it possible to manufacture extremely slender and lightweight elements, which can be used to clad the facade. The elements can be cast with a thickness down to 45 mm.

Curtain Wall elements in CRC i2® are especially suitable for projects where the architect has a dream to create a distinctive, unique, and aesthetically prominent facade.

MOUNTING PRINCIPLES

The mounting principle used for curtain walls varies from project to project.





ACCSYS TECHNOLOGIES

ARNHEM, THE NETHERLANDS

Facade type: Curtain Walls

Contractor: Bruil Bouw, EDE - NL





UNIVERSITY OF SOUTHERN DENMARK

ODENSE, DENMARK



Facade type: Curtain Walls

Architect: C. F. Møller

Engineer: MOE A/S



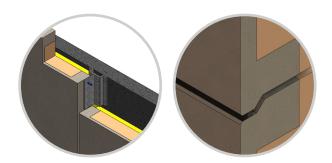
SINGLE-SIDED

Single-sided insulated facade elements from Hi-Con can be used for renovation and thermal insulations projects as well as new buildings. The single-sided insulated facade elements are ideal for renovation of an existing facade or cladding of a new back wall as they are slender, lightweight, and simple to install.

The facade elements can be cast with a thickness down to 30 mm and be manufactured as self-supporting elements with insulation. In addition, the strength, and the density of UHPC CRC i2® make it possible to produce large format elements.

MOUNTING PRINCIPLES

The mounting principle for single-sided insulated facade elements is adapted to each individual project.





KALVEBOD BRYGGE

COPENHAGEN, DENMARK

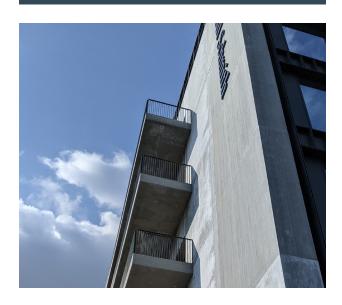
Facade type: Single-sided

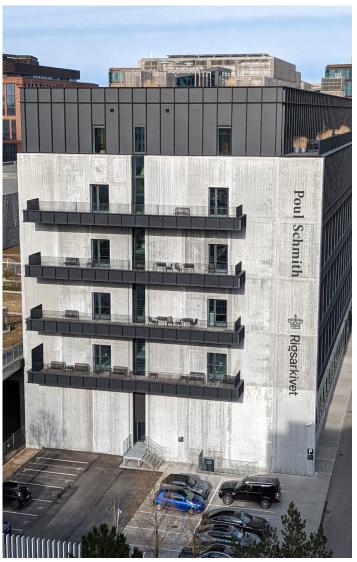
Architect: Vilhelm Lauritzen Architects

Engineer: Erik Pedersen Rådgivende

Ingeniør

Year of construction: 2019-2020





KISTA STOCKHOLM, SWEDEN



Facade type: Single-sided

Architect: Soleed

Contractor: Soleed



CLADDING

Hi-Con cladding elements are often used when special solutions and other cladding elements in connection with a facade solution are needed. Cladding elements are also useful to create uniformity between elements applied on the facade and thus create a complete building envelope.

With cladding elements from Hi-Con it is possible to cast elements that help to create a nice overall impression of your building, while keeping elements lightweight and easy to install.

The cladding elements can be designed down to 45 mm thickness and be cast in large format.

MOUNTING PRINCIPLES

The mounting principle for cladding elements is adapted to each individual project.







THE STRANDING MUSEUM

ULFBORG, DENMARK

Facade type: Cladding

w/ special structure

Architect: Frank Maali & Gemma Lalanda Arkitekter M.A.A.

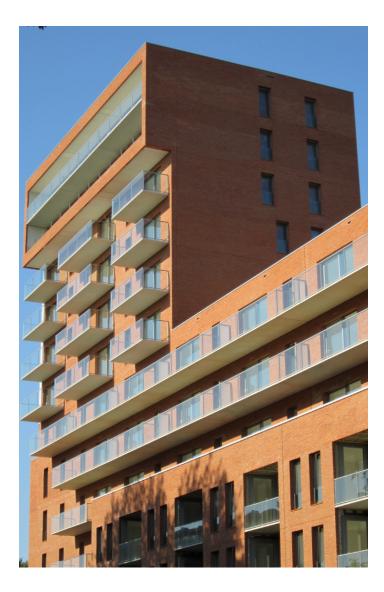
Contractor: Bjarne Ørts & Co.





POPTAHOF

DELFT, THE NETHERLANDS



Facade type: Cladding elements

Architect: Era Contour B.V.

Contractor: Change N.L.



SANDWICH ELEMENTS

Hi-Con sandwich elements are slender elements with high insulation capabilities that can function with finished surfaces - both indoors and outdoors.

The measurements of the slender sandwich elements vary from project to project, can measure down to less than 300 mm in thickness and always live up to the U-value requirements.

The slenderness of the elements increases the effective living space of your building, and the extra square meters can thus help to increase the value of your building project. In addition, it is possible to use Hi-Con sandwich elements as heavy load-bearing elements.

MOUNTING PRINCIPLES

The mounting principle applied for sandwich elements is adapted to each individual project.









HERNINGSHOLM VOCATIONAL SCHOOL

HERNING, DENMARK



Facade type: Sandwich elements

Architect: C.F. Møller

Contractor: Jakobsen & Blindkilde A/S



BOX MODULES

Box modules in UHPC CRC i2® have a long lifecycle, are lightweight, and are insulated according to the U-value requirements. The box modules consist of slender elements which, depending on the individual project, can measure less than 300 mm in thickness and offer the possibility of making finished interior and exterior facades. This means that there is no need for cladding of the exterior facades which – together with the slenderness of the elements – provides more effective square meters for living.

At Hi-Con, it is possible to create box modules in customized sizes and formats and to stack the box modules so that they can be used in a multi-story building. The modules are selfsupporting and are dimensioned for the requested number of floors with the possibility of connecting pipes and power lines.

MOUNTING PRINCIPLES

The mounting principle applied for box modules is adapted to each individual project.





HI-CON'S OFFICE

HJALLERUP, DENMARK

Facade type: Box module

Architect: Frier Architecture

Contractor: Svend Aage Christiansen

A/S

Year of construction: 2017-2018





CAMPUS BJÖRKSÄTRA

SKÄRHOLMEN, SWEDEN



Facade type: Box modules

Architect: Dap Stockholm

Contractor: Soleed



COLORS & SURFACES

The possibilities for customizing both the color and surface of our facade elements are endless. At Hi-Con, you can get surfaces with cast-in or glued brick shells, textured or dyed surfaces of your choice as well as surface treatments to create a uniform surface of the elements – only your imagination sets the limits for your next surface design.

You can see a selection on page 27.

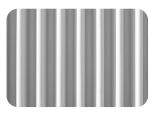
SURFACE INSPIRATION



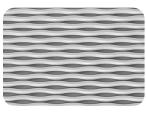
CONCRETE STRUCTURE



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CONCRETE STRUCTURE



CONCRETE STRUCTURE



REAL BOARD STRUCTURE



GRAY BRICK



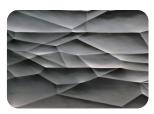
YELLOW BRICK



RED BRICK



CONCRETE STRUCTURE



CONCRETE STRUCTURE



CLADDING BRICKS



CLADDING BRICKS



LIGHT CRC 12®



GREY CRC 12®



CRC 12® PRE-DYED ORANGE



CRC 12® PRE-DYED RED

HICON

Ultra High Performance Concrete (UHPC) is a type of concrete characterized by a strength range of 130-200 MPa, distinguishing it from other types of concrete such as fiber concrete and high-strength concrete. When you use UHPC, you are offered a light and slender solution, and you avoid complicated joints. Furthermore, UHPC offers a maintenance-free solution and a fire-safe construction that can be shaped and designed without limitations.

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