NO BOUNDARIES.
ENDLESS SHAPES.
Breaking through expectations in construction industry standards, G-Cast UHPC takes bold strides towards the future and establishes a new level of excellence.

Leveraging on experienced technicians in the field as well as advanced, innovative building systems, we give architectural visionaries the power to bring their ideas to life.

Specializing in the manufacture and supply of precast prefinished Ultra High Performance Concrete (UHPC) solutions, we give you the tools that you need, with a multitude of the most cutting-edge features at your fingertips.

G-Cast UHPC retains its reputation as a pioneer, being the first company to successfully integrate the UHPC formulation into designing and manufacturing architectural and structural precast elements in Malaysia.

Prizing quality service as a top priority, dedicated and experienced sales/product development teams guide you every step of the way and are on hand to assist you with optimal performance, technical details as well as product usage.

Design services for special applications are also offered as an added advantage, complete with CAD drawings and close cooperation with customers throughout their contracts in order to deliver on every aspect of a total concrete solution.
EVERLASTING IMPRESSION

G-Cast UHPC blazes a trail forward driven by focus and extreme precision as well as a keen ability to see the bigger picture. Before a concrete surface is finalized into its unique appearance, an extensive process of research, planning and testing is undertaken. The result? An end product that is as close to perfection as possible. With an eye for detail and a passion for excellence in service, G-Cast UHPC closely follows customers’ requirements all the way from the design/conceptual phase to its final application.
Today, concrete has developed far beyond our wildest imaginations, transitioning itself from a material utilized solely as a structural product into a multifunctional architectural product. Many companies abroad have begun using concrete as an alternative to aluminum, ceramic and bricks. As a driving force on the leading edge of concrete innovation, G-Cast UHPC provides new technology for the production of architectural façades, walls, fences, tiles, slabs, urban furniture and even manhole covers, unravelling a whole new spectrum of concrete implementation.

G-Cast UHPC introduces a system that combines state-of-the-art production, lightness and economy with quality, precision, durability as well as unique 3D capabilities and unparalleled design flexibility.
INCREDIBLY SIMPLE

Easily managed and highly impregnable, every panel produced by G-Cast UHPC has the ability to resist impact firmly on its own. Heavy sub-frames are not necessary for support and installation is made simple through specially designed aluminum brackets. Aesthetics are brought to the forefront of your façade as metal frames are barely visible through hollow areas and the placement of brackets or joints are flexible.

EXTREMELY STRONG

Ultra High Performance Concrete (UHPC)
No Subframe Required
Thickerens ranged from 16-30mm

Glass Fibre Reinforced Concrete (GFRC)
Heavy Subframe Required

/ Properties Comparison

- Compressive Strength (MPa)
- Flexural Strength (MPa)
- Young’s Modulus (GPa)
- Tensile Strength (MPa)
- Cement Content (kg/m³)
- Water-Cement Ratio
- Silica Fume Content (%)

UHPC | GRC | Normal Concrete
---|---|---
Compressive Strength (MPa) | 3000 | 500 | 50
Flexural Strength (MPa) | 15 | 10 | 4
Young’s Modulus (GPa) | 50 | 20 | 20
Tensile Strength (MPa) | 15 | 5-7 | 2-5
Cement Content (kg/m³) | 800 - 1000 | 800 - 1000 | 200 - 400
Water-Cement Ratio | <0.20 | 0.35 - 0.45 | 0.35 - 0.45
Silica Fume Content (%) | >10 | NIL | NIL
TIME PROOF

G-Cast UHPC incorporates high durability into its processes, allowing for longer product lifespans through the implementation of high-density concrete materials that are easy to maintain, incredibly strong and weatherproof. Long-lasting attributes result in the ability to eliminate common issues like efflorescence and cracking.
WHAT WE OFFER

Architectural Pre-cast Concrete Solutions

/ Facade & Cladding
/ Modular Fencing System
/ Large Format Tiles
/ Urban Furniture

Non-Architectural Pre-cast Concrete Solutions

/ Manhole Cover & Slab
/ Slab
/ Beam
/ Retaining Wall

Material
Cost Saving
Installation
Time Saving
Flexible
Design
Flexible
Size
No Cracking

Highly moldable, Extreme precision
Resistance to abrasion, carbonation & penetration of chloride ions
Expression of individuality and uniqueness is important for any architectural endeavour, which is why G-Cast UHPC offers the creation of smooth and highly customized textures for outstanding aesthetics.

Worry less about damages and focus more on quality with easy to maintain concrete surfaces that are equipped with innovative anti-graffiti solutions, keeping your products safe in public areas.

Come rain or shine, your final products will remain undisturbed by the elements through a comprehensive solution for high humidity areas.

In line with our principle of constant durability, products are able to withstand minor scratches. This results in fortified strength and reduced maintenance.

G-Cast UHPC offers a massive selection of more than 100 color pigments of your choice, making originality the defining characteristic of your designs.
UHPC Customisation

TAILORED TO YOUR DESIRE
In line with our principle of attention to detail, G-Cast UHPC enables specific customizations to be carried out with levels of depth that would be otherwise difficult to achieve.

Distinct Depth

Through an innovative and precise methodology, multiple layers of patterns and features can be molded into one final product according to your specifications.

Multi-layers

The intricate curve lines that can be achieved with G-Cast UHPC are second to none. Having to combine flat boards in order to form circular shapes is no longer a necessary measure. G-Cast UHPC empowers you with an effective methodology for molding any shape you want to suit your design preferences.

Seamless Curves

Do not accept limitations to the detriment of quality. Utilize G-Cast UHPC and expand your designs above and beyond what you thought was possible. With the capacity to deliver on any design, curve line, depth or bevel, G-Cast UHPC empowers you with infinite possibilities and endless opportunities.

LIMITLESS DESIGN
ONDA / rasatura

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<th>Type</th>
<th>Weight (kg/m²)</th>
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<tbody>
<tr>
<td>Type 20</td>
<td>45</td>
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<tr>
<td>Type 40</td>
<td>50</td>
</tr>
<tr>
<td>Type 60</td>
<td>58</td>
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</tbody>
</table>

**Dimension**
1,200mm x 1,200mm

**Weight**
- Type 20: 45kg/m²
- Type 40: 50kg/m²
- Type 60: 58kg/m²

**Characteristic**
Seamless
**ONDA / croce**

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<td>Seamless</td>
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**ONDA / simmetrico**

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</tbody>
</table>
RIPPLE / linea

**Type**
- Type20: 45 kg/m²
- Type40: 50 kg/m²
- Type60: 58 kg/m²

**Dimension**
1,200 mm x 1,200 mm

**Weight**
- Type20: 45 kg/m²
- Type40: 50 kg/m²
- Type60: 58 kg/m²

**Characteristic**
Seamless

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RIPPLE / monte

**Type**
- Type20: 45 kg/m²
- Type40: 50 kg/m²
- Type60: 58 kg/m²

**Dimension**
1,200 mm x 1,200 mm

**Weight**
- Type20: 45 kg/m²
- Type40: 50 kg/m²
- Type60: 58 kg/m²

**Characteristic**
Seamless
**RIPPLE / wave**

**Weight**
- Type 20: 45 kg/m²
- Type 40: 50 kg/m²
- Type 60: 58 kg/m²

**Dimension**
- 1,200mm x 1,200mm

**Characteristic**
- Seamless

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**RIPPLE / obliquo rozzo**

**Weight**
- Type 20: 45 kg/m²
- Type 40: 50 kg/m²
- Type 60: 58 kg/m²

**Dimension**
- 1,200mm x 1,200mm

**Characteristic**
- Seamless
Let’s work together!

With G-Cast UHPC, the possibilities are endless. Take control of your architectural pursuits and gain the upper hand through a suite of enhanced features while additionally benefiting from a committed team of experts. Our support team has top-level technical and design know-how to work with you along on your journey and bring your projects to the next level.

**Type 20:** 45kg/m²
**Type 40:** 50kg/m²
**Type 60:** 58kg/m²

**Dimension:** 1,200mm x 1,200mm

**Weight:**
- Type 20: 45kg/m²
- Type 40: 50kg/m²
- Type 60: 58kg/m²

**Characteristic:** Seamless