



— UHPC

Global UHPC Materials & Engineered Solutions

From high-performance UHPC premix to ultra-thin architectural panels and custom precast systems.

Company Introduction

ZHULIYUAN UHPC is an architectural UHPC solutions provider integrating material development, manufacturing and building applications.

Leveraging its deep technical expertise in high-performance new materials, the company focuses its strategic efforts on the research and development and international trade of ultra-high-performance concrete (UHPC).

Through the brand "Zhuliyuan," the company is committed to bringing top-tier Chinese UHPC powder and customized components to the global market, making UHPC ultra-high-performance materials available to architects, engineers, developers, and builders worldwide.

01 Material R&D

Advanced UHPC formulations

02 Manufacturing

Scalable production capacity

03 Global Trade

Worldwide distribution network

Brand Positioning

From UHPC materials to architectural surfaces and prefabricated building systems.
Creating innovative, durable and aesthetic architectural solutions.

MATERIAL

- UHPC Premix

PRODUCTS

- Ultra-Thin Panels

SYSTEMS

- Prefabricated Solutions

[Explore UHPC Product Solutions](#)

Product System

Complete UHPC solution portfolio

01. UHPC MATERIALS

UHPC Premix

02. UHPC SURFACE PRODUCTS

Ultra-Thin Panels Wood Grain Series

Ultra-Thin Panels Burnt Wood Series

Ultra-Thin Panels Geometry Series

Ultra-Thin Panels Woven Pattern Series

Ultra-Thin Panels Natural Stone Series

Ultra-Thin Panels Exposed Aggregate Series

03. UHPC ARCHITECTURAL SYSTEMS

UHPC Curtain Wall System

UHPC Indoor & Outdoor Countertops

UHPC Seamless Wear-resistant Flooring

UHPC Floor Panels

UHPC Landscape Sculpture

UHPC Light & Shadow Board

UHPC Modular Housing System

01. UHPC Materials

UHPC Premix

High performance concrete materials for architectural casting, precast components and customized applications.



01. UHPC Materials

UHPC Premix

Product line	Color	Technical Specifications(MPa)			
		Feature	Compressive Strength	Tensile	Flexural Strength
T100W	White	≥ 100	/	5	12
T120W		≥ 120	/	5	15
T130W		≥ 130	8	9	22
T150W		≥ 150	9	10	28
T100G	Grey	≥ 100	/	5	15
T120G		≥ 120	7	8	22
T130G		≥ 130	8	9	25
T150G		≥ 150	9	10	28
T160G		≥ 160	9	10.8	28
T180G		≥ 180	9	10.8	30

02. Ultra-Thin UHPC Panels

3–8 mm architectural surface panels

Collections:

Wood Grain / Burnt Wood / Geometry / Woven Pattern / Natural Stone / Exposed Aggregate



Ultra-thin

3–8 mm profile



Lightweight

Easy installation



Durable

Long-lasting beauty



Customizable

Various textures

02. Ultra-Thin UHPC Panels

Item	Performance Index	HPC–High-Perfor mance Concrete	UHPC – Ultra-High Performance Concrete
Mechanical Property	Compression Strength (Mpa)	70 ~ 90	100 ~ 150
	Rupture Strength (Mpa)	10.0 ~ 14	15 ~ 30
	Modulus Of Elasticity (Mpa)	30 ~ 45	40 ~ 60
Lasting Quality	Density (T/m ³)	2.15 ~ 2.25	2.30 ~ 2.50
	Water Absorption (%)	3.0 ~ 6.0	1.0 ~ 3.0
	Dry Shrinkage Deformation (%)	0.02 ~ 0.04	0.01 ~ 0.02
	Temperature Deformation (10 ⁻⁵ / °C)	1.0 ~ 2.0	0.8 ~ 1.1
	Chloride Ion Diffusion (10 ⁻¹² m ² /s)	≤2.0	≤0.05
	Carbonization Depth (mm)	0.5-1	0.1-0.2
Dull And Stereotyped	Double-layer, bidirectional high-strength alkali-resistant material with straight mesh patterns spaced 2 mm ± 1 mm from the outer surface; single-filament tensile strength ≥ 1600 MPa; ZRO ₂ content ≥ 16.7 % .		
Arc	Short fibers are either organic fibers or stainless steel metal fibers .		

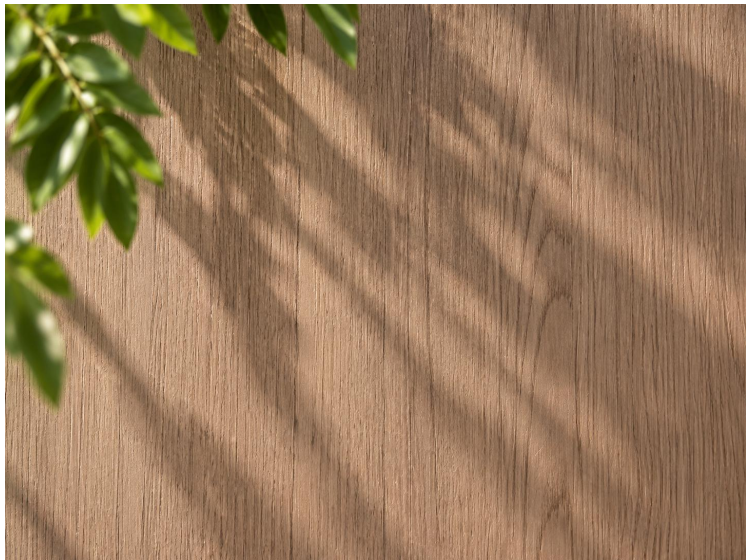
02. Ultra-Thin UHPC Panels

——Wood Grain Series



02. Ultra-Thin UHPC Panels

—Wood Grain Series



02. Ultra-Thin UHPC Panels

—Burnt Wood Series



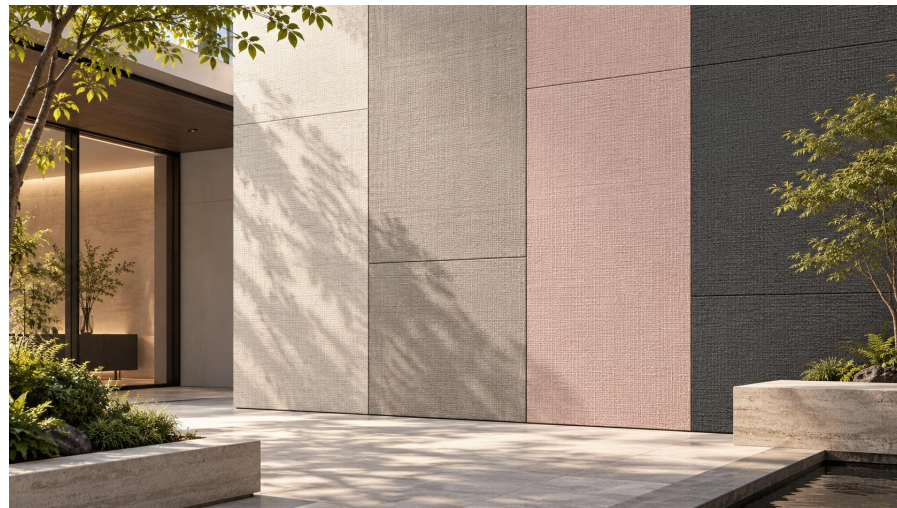
02. Ultra-Thin UHPC Panels

—Geometry Series



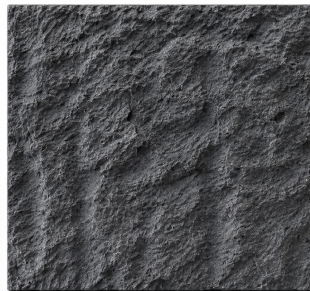
02. Ultra-Thin UHPC Panels

——Woven Pattern Series



02. Ultra-Thin UHPC Panels

——Natural Stone Series



02. Ultra-Thin UHPC Panels

—Exposed Aggregate Series



Architectural Panel Features

Why choose our ultra-thin UHPC panels

1

Ultra-thin Profile

Only 3–8 mm thickness reduces structural load while maintaining exceptional strength and durability.

2

Lightweight Installation

Easy handling and quick installation significantly reduce labor costs and project timelines.

3

Customized Textures

Wide range of surface finishes from wood grain to natural stone, matching any design vision.

4

Facade & Interior Applications

Versatile use in both exterior facades and interior walls, countertops, and feature elements.

03. UHPC Building Systems

Comprehensive prefabricated solutions



Curtain Wall



**Indoor & Outdoor
Countertops**

**Seamless Wear-resistant
Flooring**



Floor Panels



Landscape Sculpture



Light & Shadow Board



Modular Housing

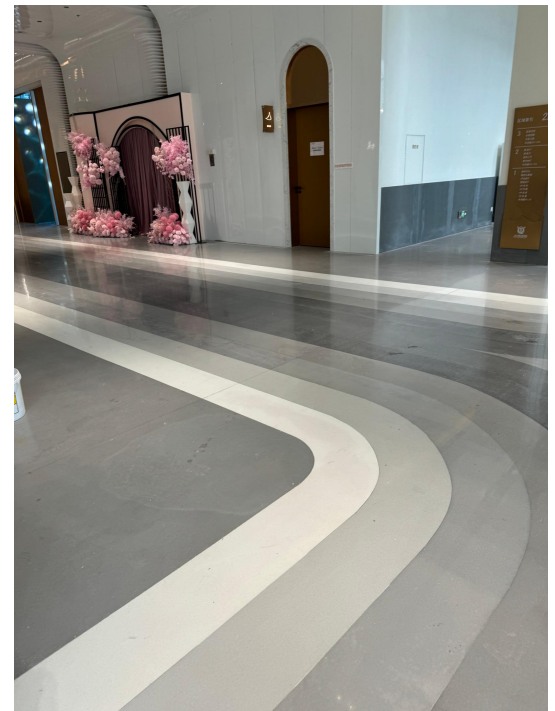
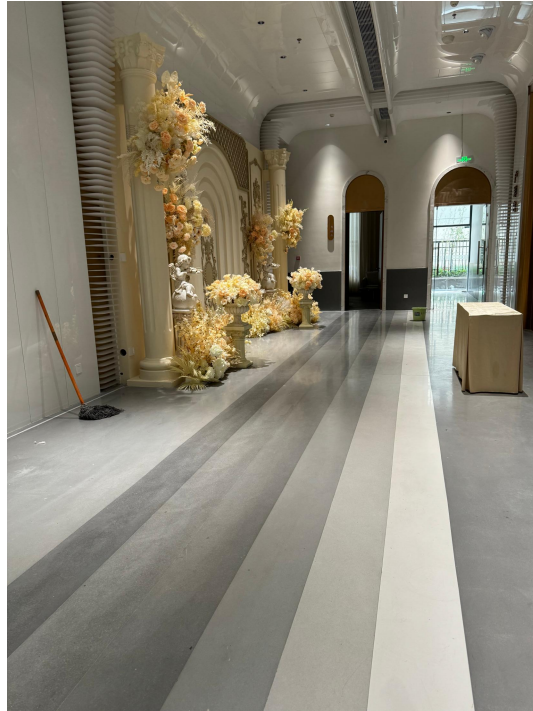
System 1:UHPC Curtain Wall System



System 2:UHPC Indoor & Outdoor Countertops



System 3: UHPC Seamless Wear-resistant Flooring



System 4: UHPC Floor Panels



System 5:UHPC Landscape Sculpture



System 6: UHPC Light & Shadow Board



System 7: Modular Housing System

Factory prefabricated UHPC housing solution

Features:

- ✓ Rapid installation — 70% faster than traditional construction
- ✓ Flexible layouts — customizable floor plans for diverse needs
- ✓ Durable UHPC shell — weather, fire, and seismic resistant
- ✓ Modern living spaces — contemporary design with premium finishes
- ✓ Sustainable — reduced waste and energy-efficient insulation



System 7: Modular Housing System

Factory prefabricated UHPC housing solution



04. Application Areas

Diverse applications across multiple industries

Architecture

UHPC Facade • Ultra-thin Panels • Curtain Walls • Interior Panels • Countertops

Infrastructure

Bridge Components • Deck Systems • Joint Repair • Structural Reinforcement

Prefabrication

Precast Components • Modular Facade • Thin Composite Slabs • Custom Components

Urban & Landscape

Landscape Design • Street Furniture • Flooring Systems • Sculpture Art • Municipal Applications

International Standards & Global Service

Compliance, quality and worldwide support for international projects

ASTM C1856 · EN 206 · GB/T 31387 · ISO-aligned quality



05. Case Studies

Showcasing UHPC applications in facades, interiors, landscape and modular architecture around the world.

15+

Countries

200+

Projects

50+

Partners

USA | UHPC Facade



China | UHPC Facade





China | UHPC Facade



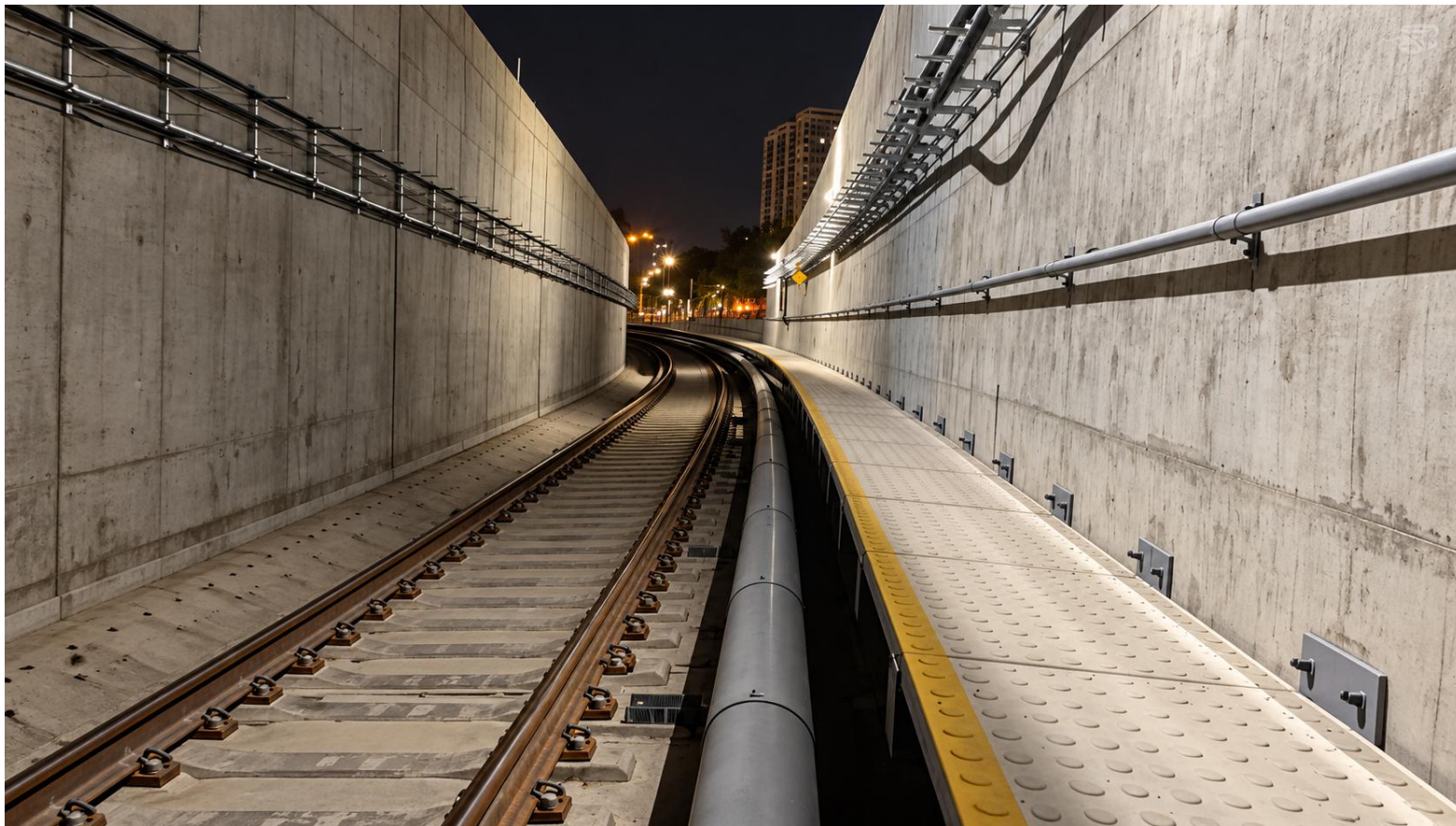
South Korea | UHPC Facade



Middle East | UHPC Exterior Wall



China | UHPC Prefabricated Rail Transit



China | UHPC Prefabricated Housing



06. Why Choose ZHULIYUAN

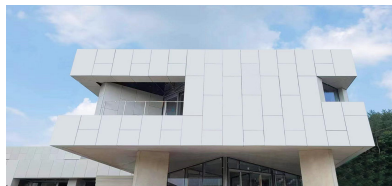
Our core advantages

01 Engineering Experience

Built on real-world engineering experience in China with proven project delivery capabilities.

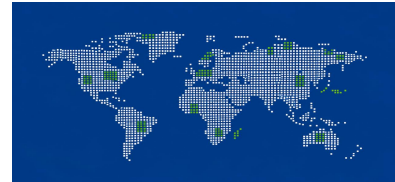
02 Material Technology

Proprietary UHPC formulations developed and optimized for different architectural applications.



03 Advanced Manufacturing

Stable, scalable production with customized manufacturing capabilities for projects of any size.



04 Global Project Support

End-to-end support from material selection to production, logistics and technical assistance.



Contact Us

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