

The glass bridge structure has been completed



Overview

Authorities have clarified that the glass walk will open only after all safety and technical tests are completed.

Key Takeaways

The world's longest suspension glass bridge has been completed in the Huangchuan Three Gorges Scenic Area, China, spanning 526 meters and suspended 201 meters above the river.

The recently completed Glass Bridge in southeast China was designed by the Architectural Design & Research Institute of Zhejiang University (UAD) and officially broke the Guinness World Record for the longest glass-based suspension bridge in the world . The pedestrian bridge crosses the Beijiang River system in the Pearl River Basin, connecting cliffs on either side, and is intended to symbolize connection and communication while harmonizing with the natural environment .

Design and Materials



The bridge features three layers of thick tempered laminated glass, totaling 13.5 cm in thickness, with a visible transmittance of over 99 percent, providing a highly transparent walking surface . Its curved stainless steel guardrails and red-finished cables and towers create a striking contrast with the glass paving. The structure is 8.8 meters wide and suspended at a height of 201 meters, designed to withstand seasonal typhoons through advanced wind simulation, wind tunnel testing, and finite element analysis . An oblique wind-resistant cable system further enhances stability in heavy winds.

Engineering Innovations

The bridge incorporates several innovative architectural and structural features, including vibration and impact dampening technologies, and careful integration into the surrounding landscape to minimize visual impact . The design team, including Xie Xu, Sun Liangfeng, Wang Weilong, Dong Weiwei, and Wu Pu, aimed to combine modern and classical elements while ensuring safety and longevity .

Global Context

While this bridge holds the record for the longest suspension glass bridge, other notable glass bridges exist worldwide. For example, the Bach Long pedestrian glass bridge in Vietnam stretches 632 meters, and the Zhangjiajie Glass Bridge in Hunan, China, spans 430 meters and is suspended 300 meters above the canyon floor . These structures highlight the growing use of glass in pedestrian bridges, combining transparency with structural engineering to create thrilling and visually striking experiences. The completion of the Glass Bridge represents a milestone in architectural and engineering design, demonstrating how glass can be safely and innovatively used in large-scale, load-bearing structures while offering breathtaking views and enhancing tourism in scenic areas .

Article Content

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World's tallest and longest glass bridge opens in China

A 430-metre-long glass-bottomed bridge has been constructed across a deep canyon in China's Zhangjiajie National

Zhangjiajie Glass Bridge in Zhangjiajie

A 1,400-foot-long, 900-foot-high bridge made out of glass. This bridge, opened in the

Engineers build 30-feet-long all-glass bridge using 6,000-year ...

Architect and structural engineer Masoud Akbarzadeh has challenged conventional wisdom by constructing a bridge

China's Zhangjiajie glass bridge closes after two weeks

A glass-bottomed bridge in China heralded as a record-breaker when it opened just 13 days ago has closed for an

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Glass technology is more advanced than ever and many structures describe themselves as "all glass", when most have steel

World's highest glass-bottomed bridge opens in China:

The first tourists have been pictured trying out the world's longest and highest glass

Zhangjiajie Glass Bridge Longest Glass Bridge in the World

Zhangjiajie Glass Bridge Overview of Zhangjiajie Glass Bridge Zhangjiajie Glass Bridge is the first cross-canyon glass bridge that

Glass Bridge

Introduction: In recent years, the construction of Glass Bridge has been developed. Glass bottomed and transparent architectures

China's Record-Breaking Glass Bridge Is So Popular, It Had

This bridge is terrifying, but everyone wants to visit it. The overwhelming demand to visit China's record-breaking glass

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