

Article Overview

Norway features a variety of bridges with bridge decks, including deck arch bridges, pedestrian aluminium bridges, and innovative concrete structures like Randselva Bridge.

Notable Deck Bridges

Randselva Bridge is a groundbreaking concrete bridge near Honefoss, notable for being the world's longest bridge constructed without paper drawings. Its deck was built using advanced equipment such as Form Travelers and a Movable Scaffolding System, with 11,900 m³ of concrete dedicated to the deck alone, highlighting modern engineering techniques in deck construction . Hangarbrua in Trondheim is a 55-meter-long pedestrian network arch bridge with a deck made entirely from recycled aluminium sourced from the decommissioned Gyda oil platform. This bridge demonstrates sustainable materials use and lightweight deck construction, allowing off-site assembly before installation .

Deck Arch Bridges

Norway also has several deck arch bridges, where the roadway is supported above the arch structure. Wikimedia Commons lists multiple examples, showcasing the aesthetic and structural advantages of this design, which combines strength with scenic integration into the landscape .

Other Notable Bridges with Decks

- o Hardanger Bridge: A modern suspension bridge with a deck spanning the fjord, supporting vehicular traffic .
- o Storseisundet Bridge: Part of the Atlantic Road, featuring a curved deck that provides dramatic views .
- o Tromsbrua: A long bridge over Tromsøysundet strait with a high deck for maritime clearance .
- o Helgelandbrua: A deck bridge in the Helgeland region, notable for its height and scenic surroundings .

Materials and Construction

Bridge decks in Norway are constructed using concrete, steel, and aluminium, depending on the bridge type and purpose. Pedestrian bridges like Hangarbrua use lightweight aluminium for sustainability, while vehicular bridges often use reinforced concrete or steel for durability and load-bearing capacity . Modern construction techniques, including Form Travelers and Movable Scaffolding Systems, are employed to efficiently build large deck spans .

Summary

Norway's bridges with decks range from historic and scenic deck arch bridges to innovative, sustainable

Bridges with bridge decks in Norway

pedestrian bridges. Key examples include Randselva Bridge, Hangarbrua, Hardanger Bridge, and Storseisundet Bridge, each demonstrating unique approaches to deck design, materials, and construction methods. These bridges not only serve functional purposes but also highlight Norway's commitment to engineering innovation and environmental sustainability.

This paper is a presentation of an investigation into the suitability of locally produced ultra-high-performance fiber-reinforced concrete

As bridges go, this one is in my opinion a beautiful design. Construction took just two years, whether the requirement

The following 4 pages are in this category, out of 4 total. This list may not reflect recent changes.

Two concepts are being designed, one of which, SUREbridge with InfraCore®;Inside,

BIG has completed The Twist art gallery that twirls "like a deck of cards" and bridges the river dividing Kistefos

The old bridge (Gamle Bybro in Norwegian) connects the city centre with the historic district of Bakklandet by crossing

"Hangarbrua" is a 55 meter long and 9 meter wide network arch bridge, with the bridge

List of bridges in Norway This is a list of bridges and viaducts in Norway, including those for pedestrians and vehicular traffic.

Randselva Bridge project in Norway - the 1st world's longest bridge built with no drawings. Strukturas is

The bridge is impressive and from some angles looks like a ski jump, with vehicles on the bridge disappearing from

FiberCore Europe's Norwegian partner, Module Solutions & Systems, together with

Implenia lands bridge contracts in Germany and Norway Three bridges in northern Europe with unique challenges.

Full-scale production and material properties of ultra-high-performance fiber-reinforced concrete (UHPFRC) for

Bridges with bridge decks in Norway

Nordic Timber Bridge Program The main objective was to increase the competitiveness of timber bridges compared with other

The Storseisundet Bridge is a 260-meter cantilevered bridge on Norway's Atlantic Road.

Bridges in Norway Alphabetic Clearance Height Length Longest span Opened Aamodt bridge Suspension bridge, Footbridge,

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