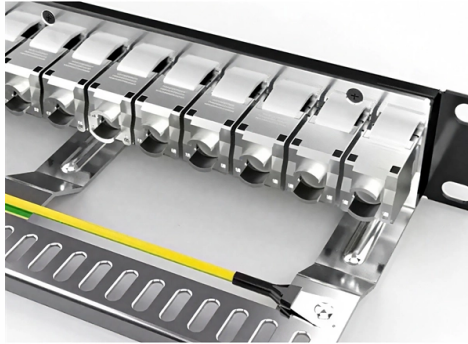


Slope Climbing Bridge



Article Overview

A slope climbing bridge can refer to either a bridge with engineered slopes for vehicles and cyclists or a recreational climbing bridge obstacle designed for agility and balance.

Engineering Perspective: Bridge Slopes

Bridges often require elevated approaches due to vertical clearance over roads or waterways. The slope or ramp leading to the bridge is critical for safety and usability. For cyclists, the ideal grade ranges from 1.75% to 7.5%, with steeper slopes requiring level landings for rest and speed control . In mountainous or construction areas, vehicle climbing performance dictates the maximum longitudinal slope, which can range from 4% to 22%, depending on vehicle type, weight, and engine power . Reinforced concrete slope paving or slope reinforcing is commonly applied to prevent erosion and stabilize the soil around bridge abutments, often using geotextiles, welded wire mats, or retaining walls . A typical slope ratio is 1:2, adjusted for local conditions, and proper embedment and cutoff walls are used to prevent undermining and ensure long-term stability .

Recreational Perspective: Climbing Bridge Obstacles



Article Content

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slope design

slope design basic guidelines As bridges across waterways or roads often have requirements regarding their vertical clearance, they

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Smart Inclinations: 8 Stunning Structures Shaped By Their Sloping Sites Despite constructional challenges, hilly, inclined sites can

Smart Inclinations: 8 Stunning Structures Shaped By Their Sloping Sites

Dug into the sloped terrain near Richland Creek, the granite structure is imagined to stretch about 50 feet deep into the ground.

Read the BridgeClimb Story | Sydney Harbour BridgeClimb

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