

# MyArch Group

# FlexC Girder

Revolutionizing Bridge Girder Solutions

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# Introducing the FlexC Girder: Engineering Excellence Meets Innovative Design

Welcome to the future of bridge construction with **FlexC Girder** – a groundbreaking innovation in the ever-evolving world of civil engineering and construction. The quest for more efficient, versatile, and durable materials is perpetual, and bridging this gap between aspiration and reality is the **FlexC Girder**. This segmental bridge girder, a collaborative brainchild of MyArch, incorporates Korean technology know-how and is set to redefine the standards of structural integrity and design flexibility in modern infrastructure.

Born from a synergy of MyArch's expertise in segmental girder know-how and advanced Korean technological innovations, the **FlexC Girder** is more than just a component; it's a testament to the power of collaborative innovation. Our product is uniquely engineered to offer unparalleled flexibility, allowing for the creation of curved girders that conform to designated curvatures with ease – a feature rarely seen in traditional girders. What truly sets the **FlexC Girder** apart is its ultra-low height property, making it an ideal choice not only for bridge girders but also for longer pedestrian bridge applications where space and height constraints are critical. This innovative design aspect significantly enhances the versatility and applicability of the girder in various construction scenarios.

The process of crafting each girder involves precision precasting of concrete segments at our state-of-the-art factory, followed by meticulous post-tensioning on-site to seamlessly join these segments into a singular, robust structure.

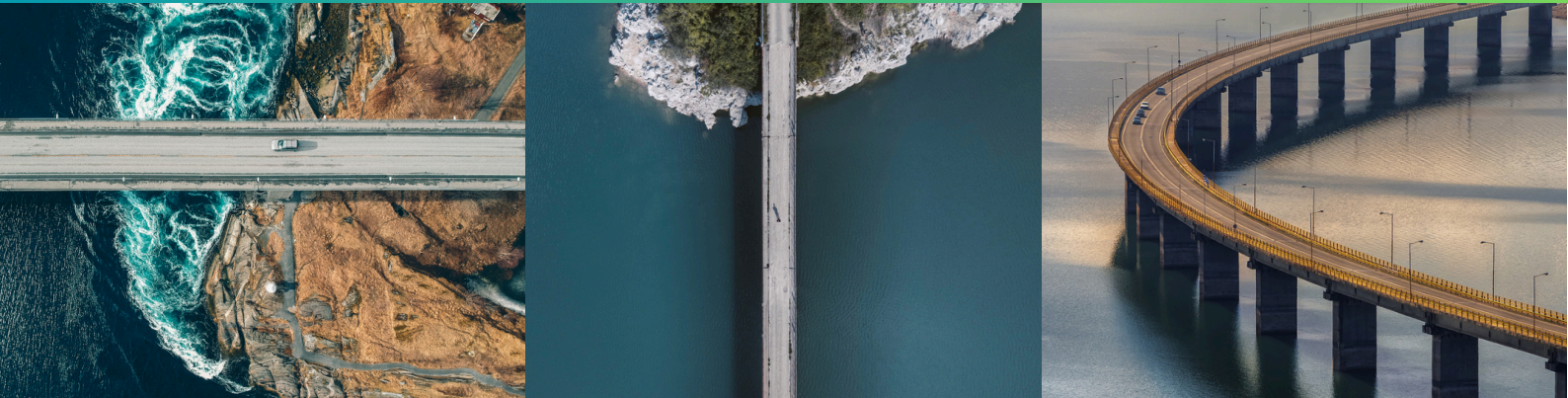
The **FlexC Girder** is not just a component; it's a revolution in bridge construction. It embodies our commitment to pushing the boundaries of what's possible, merging top-notch engineering with practical, real-world applications. As we unveil the **FlexC Girder**, we invite you to witness a new era of construction excellence where flexibility, strength, innovation, and Korean technological prowess come together to build the bridges of tomorrow, now enhanced with ultra-low height properties for greater adaptability.

# FlexC Girder: A Closer Look at Dimensions and Properties

Welcome to the detailed world of the **FlexC Girder**, where precision meets functionality. In this section, we unveil the specific dimensions and key properties that make our girder a standout in modern construction. Engineered by the combined expertise of MyArch Group, the **FlexC Girder** is not just about its innovative design; it's also about the tangible details that define its excellence.

Here, you'll find comprehensive insights into its adaptable curvature, optimised low-height design, and the precision of its precast segments. These dimensions and properties are crucial for professionals seeking a reliable, efficient, and versatile solution in bridge construction.

Dive into the specifics that make the **FlexC Girder** a game-changer in the industry.



	Property	Symbol	Unit	Standards	FlexC 1300
Physical & Strength	Depth	H	mm	-	1300
	Weight (without Kerb)	W	tons/m	-	3.1
	Span Range	S	m	-	20-40
	Mean Cube Compressive Strength	f <sub>Cu</sub>	MPa	BS EN 12390-3	85-95
Durability	Rapid Chloride Permeability Test	RCPT	coulomb	ASTM C1202	200
	Water Absorption Test	W <sub>A</sub>	%	BS1881-121	1
	Water Penetration Under Pressure	WPT	mm	BS EN 12390-8	13

Note: For any additional inquiries or specific requirements, please don't hesitate to get in touch with a representative from MyArch Group. We take pride in our ability to customize solutions to meet unique needs, building upon the offerings mentioned above. Your vision is our priority, and we're here to craft tailored solutions that match your project's demands.

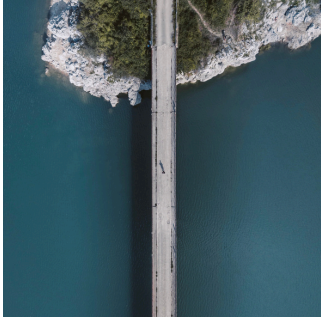
Disclaimer: The information provided above is accurate to the best of our knowledge and understanding at the time of writing. However, it's important to recognize that the accuracy, completeness, and relevance of this information may be subject to changes due to unforeseen circumstances, developments, or factors beyond our control and initial expectations.

A close-up photograph of a hand holding a glowing incandescent lightbulb. The lightbulb is the central focus, emitting a warm, yellow-orange glow. The hand is positioned on the right side of the frame, with fingers wrapped around the bulb. The background is a blurred image of a person's face and torso, wearing a light blue button-down shirt. Overlaid on the image is a large, bold, black text quote.

**"Innovation is  
the only way to  
win."**

**Steve Jobs**

# FlexC Girder Application



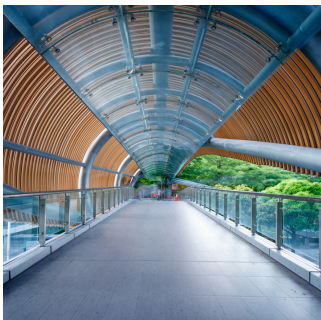
## River Crossing

The **FlexC Girder** is a game-changer for river crossing bridge projects, redefining the way we approach such endeavours. Its remarkable flexibility allows it to harmoniously adapt to the natural contours of river landscapes, resulting in bridges that not only span bodies of water but also blend seamlessly with the environment. Its robust construction ensures durability and safety, making it the top choice for various river crossing applications.



## Interchange Bridge

In the world of interchange bridge construction, the **FlexC Girder** takes center stage with its innovative approach. Designed to meet the demands of bustling urban interchanges, it excels in creating intricate, curved designs while maintaining a discreet profile. Its structural resilience is a testament to its suitability for high-traffic junctions, setting a new benchmark for interchange bridge excellence.



## Pedestrian Bridge

MyArch's **FlexC Girder** is a groundbreaking solution for pedestrian bridge construction, ushering in a new era of possibilities. What truly sets it apart in this application is its capacity to seamlessly blend aesthetics with structural integrity. The ability to create elegant curves in pedestrian bridges enhances not only their functionality but also their visual appeal. The **FlexC Girder** redefines the traditional pedestrian bridge, offering a fresh perspective on form and function.

# Crafting the **FlexC Girder**: Precision and Excellence in Every Segment

Discover the meticulous crafting process behind the **FlexC Girder**, where precision meets innovation. In this section, we explore the journey of the **FlexC Girder** from expert design to precise precasting. Engineered by the combined talents of MyArch Group , each girder is a product of advanced technology and stringent quality control. We ensure every segment reflects our commitment to excellence, setting new standards in bridge construction. Join us in a brief exploration of how the **FlexC Girder** is crafted to change the landscape of modern infrastructure.



PLACEMENT OF REINFORCEMENT IN THE MOULD



CONCRETING OF FLEX-C SEGMENTS



TRANSPORTING FLEX-C SEGMENT TO THE PROJECT SITE



UNLOADING FLEX-C GIRDER SEGMENTS ONTO THE ASSEMBLY TABLE.



PERFORMING POST-TENSIONING TO STITCH FLEX-C GIRDER SEGMENTS.



LAUNCHING THE FULLY ASSEMBLED AND STITCHED FLEX-C GIRDER.

# MEET THE EXPERT

PEOPLE BEHIND THE TECHNOLOGY



**DATO IR MOHD  
SAFARI BIN AHMAD**



**IR HASMI BIN  
AHMAD**



**IR DR LOW HIN FOO**



**ASSOC. PROF. IR DR  
MOHD ADIB MOHD  
RAZI**

Welcome to the expert section of our brochure, where we delve into the technical mastery and innovative engineering behind the **FlexC Girder**. This segment is dedicated to professionals seeking an in-depth understanding of our groundbreaking product. Here, we unfold the intricate details of design, manufacturing, and application that set the **FlexC Girder** apart in the realm of modern construction.

From its unique curvature capabilities to its optimized structural integrity, every aspect is a testament to the collaborative expertise of MyArch Group. Join us as we explore the nuances that make the **FlexC Girder** a symbol of engineering excellence and a beacon of future construction technologies.

# Thank You

We'd love to hear from you! Whether you have a question about our products, want to collaborate with us, or just want to say hello, please don't hesitate to reach out. Fill out the contact form below and we'll get back to you as soon as possible. Thank you for your interest in FlexC Girder Solution.

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