



# BRIDGE PROJECTS

FULL SPAN BRIDGES



Bridge Design & Engineering Services





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### Wiecon Introduction

#### About Us

We don't just design bridges; we create engineering benchmarks that stand as testaments to innovation, precision, and excellence. With a legacy spanning three decades, we have emerged as leaders in the field of bridge engineering, driven by an unwavering commitment to pushing boundaries and exceeding expectations.

#### Our Approach

Our passion for bridge structures is matched only by our dedication to integrating cutting-edge designs and the latest technologies with our vast reservoir of experience and expertise. We provide comprehensive multi-disciplinary engineering consultancy services that encompass every facet of bridge engineering, construction processes, and project management.

#### 30 Years of Excellence

With a rich portfolio spanning over 30 years, WIECON has been at the forefront of bridge engineering projects. Our in-house team of experts offers a diverse range of design services, including precast segmental, full-span erection, balanced cantilever, advanced shoring, incrementally launched, cable stay, suspension, and other specialized bridges. We handle projects from the initial preliminary studies and detailed design stages to the design of bridge construction equipment, major temporary works, and the supervision of the final erection stages.



### Design & Engineering Services



### Full Span Girders, Taipei MRT Project, CE01B, Taiwan

**Client:**

DSI, Taiwan

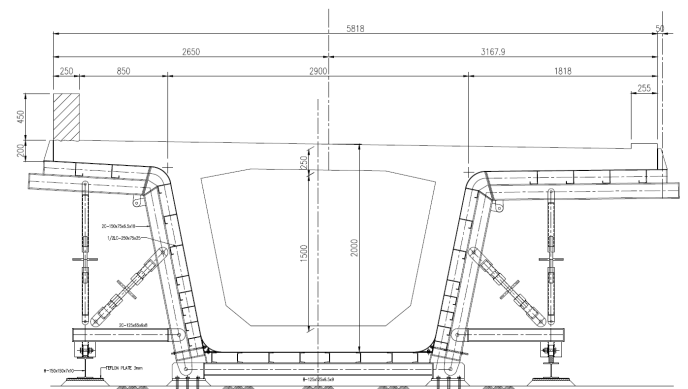
**Services:**

- Construction Engineering
- Deck Formwork Casting Design
- Detail Design
- Rebar & PT Shop Drawings
- Casting Yard Design
- Contractors Engineer



**Specifications:**

- **Deck Lengths:**
- Type A: 18m, 25m, 27.1m
- Type C: 30m
- Type D: 20m, 24.984m, 25m, 30m, 31.1m
- Type E: 30m, 31.1m
- Type F: 27.1m, 30m, 31.1m
- Type G: 25m, 30m
- Type K: 22.6m
  
- Deck Widths: 4.350m / 5.81m
  
- Deck Depth: 2m



Typical Deck Section

### Full Span Girders, Taipei MRT Project, CE01C, Taiwan

**Client:**

Hwang Chung Construction

**Services:**

- Construction Engineering
- PT Shop Drawings
- Casting Yard & Formwork Design
- Contractors Engineer

**Specifications:**

Unit No.	Spans (m)	Total Length (m)	Design Type
34	35+31.247	66.247	CIP 02
33	30+30	60	CIP 01
43	28+30+25+22	105	CIP 07
42	30+30+30	90	CIP 06
37	31+31+31.148	93.148	CIP 05
27	43+36	79	CIP 04
35	30+35+30	95	CIP 03
30	40+60+40	140	FCC 01
31	40+60+40	140	FCC 01
32	40+60+40	140	FCC 01
41	30+50+30	110	FCC 01
40	55.5+55.5	111	FCC 05
39	35+50+35	120	FCC 04
36	30+50+30	110	FCC 02
38	46+60+70+50	226	FCC 03
51	35+31.247	66.247	CIP 01
52	35+31.246	66.246	CIP 01
<b>Total Project Length (m):</b>		<b>1817.9</b>	
		<b>(km) 1.8km</b>	

- Deck Widths: 9.1m~17.36m

**Project Duration:**

2007-2008



### Full Span Girders, Taiwan High Speed Rail C250, Taiwan

**Client:**

HBP Joint Venture

**Services:**

- Construction Engineering
- Detail Design for Two Steel Loading Platforms
- Major Temporary Works Design
- Contractors Engineer

**Specifications:**

- 70% or 27Km of the Length of Contract C250 comprised of standard precast box section viaducts
- Box Girder Lengths: 25m, 30m, 35m
- Box Girder Weight: 800t Approx
- Box Girder Width: 13m
- Box Girder Depth: 2.8m

**Project Duration:** 2001-2003



### Full Span Girders, Taipei MRT Project, Neihu Line, Taiwan

**Client:**

Kung Shin Construction

**Services:**

- Construction Engineering
- Precast Pier Cap Form Design
- Precast Segmental Form Design
- Design of the Equipment for the Segmental Cantilever Erection
- Design of the Erection Equipment for the Full Span Precast Girders
- Casting Yard Design (Long & Short Bed)
- Contractors Engineer
- Major Temporary Works Design

**Specifications:**

- Total Length of Project: 14.8km
- Length of Precast Box Girders: 25m
- Precast Segmental Equipment was Designed for 1km of the Metro Line
- Segment Widths: 9.3m
- Depth of Segments: 3.6m-1.6m
- Two Long Bed Casting Forms Were Designed for Production of Over 400 Precast Segments
- Max Segments weight: 65t

**Project Duration:** 2004-2006



## Full Span Girders, Taipei MRT Project, C206A, Tamshui Line, Taiwan

**Client:**

DORTS, Taiwan

**Services:**

- Construction Engineering
- Erection Equipment Design for the Elevated Section of the Tamshui Line
- Contractors Engineer
- Casting Yard Design
- Major Temporary Works Design
- Site Supervision

**Specifications:**

- Total Project Length: 9km
- Average Span Lengths: 9km
- Max Box Girder Weight: 320t

**Project Duration:**

2004-2006





## **WIECON**

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