

# PROKON Support Portal

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## Designing U and Z-shaped concrete sections

Stephen Pienaar - 2020-08-09 - 0 Comments - in C01:Continuous beam / slab design

Can you design and detail U or Z-shaped sections with Continuous Beam/Slab Design?

Continuous Beam/Slab Design allows you to design sections with or without top and bottom flanges. A section has a single web, and its top and bottom flanges (if specified) are assumed to have the same vertical centre line. You can move the web sideways relative to the flanges using the web offset parameter. Within these parameters, the following shapes are possible:

1. Rectangular (no flanges)
2. I-section (both top and bottom flanges)
3. T-section (no bottom flange)
4. Inverted T-section (no top flange)
5. L-section (top or bottom flange with web offset to the side)
6. U-section on its side (top and bottom flanges with same width, and web offset to the side)

The screenshot shows the 'Continuous Beam' software interface. At the top, there are tabs for 'File', 'Input', 'Sections', 'Supports', 'Loads', and 'Print'. Below these are sub-tabs for 'Parameters', 'Sections', 'Supports', 'Loads', and 'Print'. A table displays the following data:

Sec. No.	B <sub>w</sub> (mm)	B <sub>f</sub> (mm)	H <sub>f-top</sub> (mm)	H <sub>f-bot</sub> (mm)	H <sub>w-top</sub> (mm)	H <sub>w-bot</sub> (mm)	W <sub>f</sub> -offset (mm)	Web offset	Flange offset
1	200	200							
2	200	200	700	100	100	100			
3	200	200	700	100	100	100			
4	200	200			100	100			
5	200	200	100	100			100		
6	200	200	100	100	100	100	100		

Below the table, six cross-section diagrams are shown, labeled SECTION 1 through SECTION 6. SECTION 1 is a simple rectangle. SECTION 2 is an I-section with a wide top flange and a narrow bottom flange. SECTION 3 is an inverted T-section with a wide top flange and a narrow bottom flange. SECTION 4 is an L-section with a wide top flange and a narrow bottom flange. SECTION 5 is an L-section with a wide bottom flange and a narrow top flange. SECTION 6 is a U-section on its side with a wide top flange and a narrow bottom flange.

# Prokon Manual

**Sabine Zange**



## **Prokon Manual:**

Moody's International Manual ,1995

**Insights and Innovations in Structural Engineering, Mechanics and**

**Computation** Alphose Zingoni,2016-11-25 Insights and Innovations in Structural Engineering Mechanics and Computation comprises 360 papers that were presented at the Sixth International Conference on Structural Engineering Mechanics and Computation SEMC 2016 Cape Town South Africa 5 7 September 2016 The papers reflect the broad scope of the SEMC conferences and cover a wide range of engineering structures buildings bridges towers roofs foundations offshore structures tunnels dams vessels vehicles and machinery and engineering materials steel aluminium concrete masonry timber glass polymers composites laminates smart materials Mergent International Manual ,2009

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**Analysis and Design of Electrical Power Systems** Ismail Kasikci,2022-05-09

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