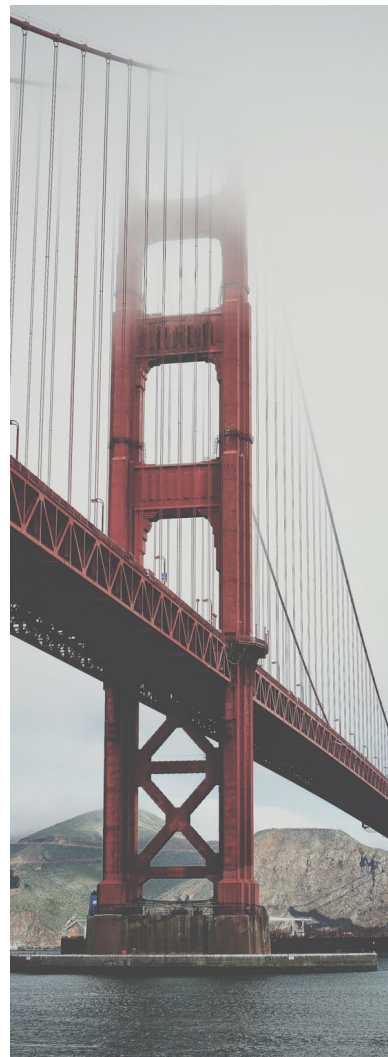


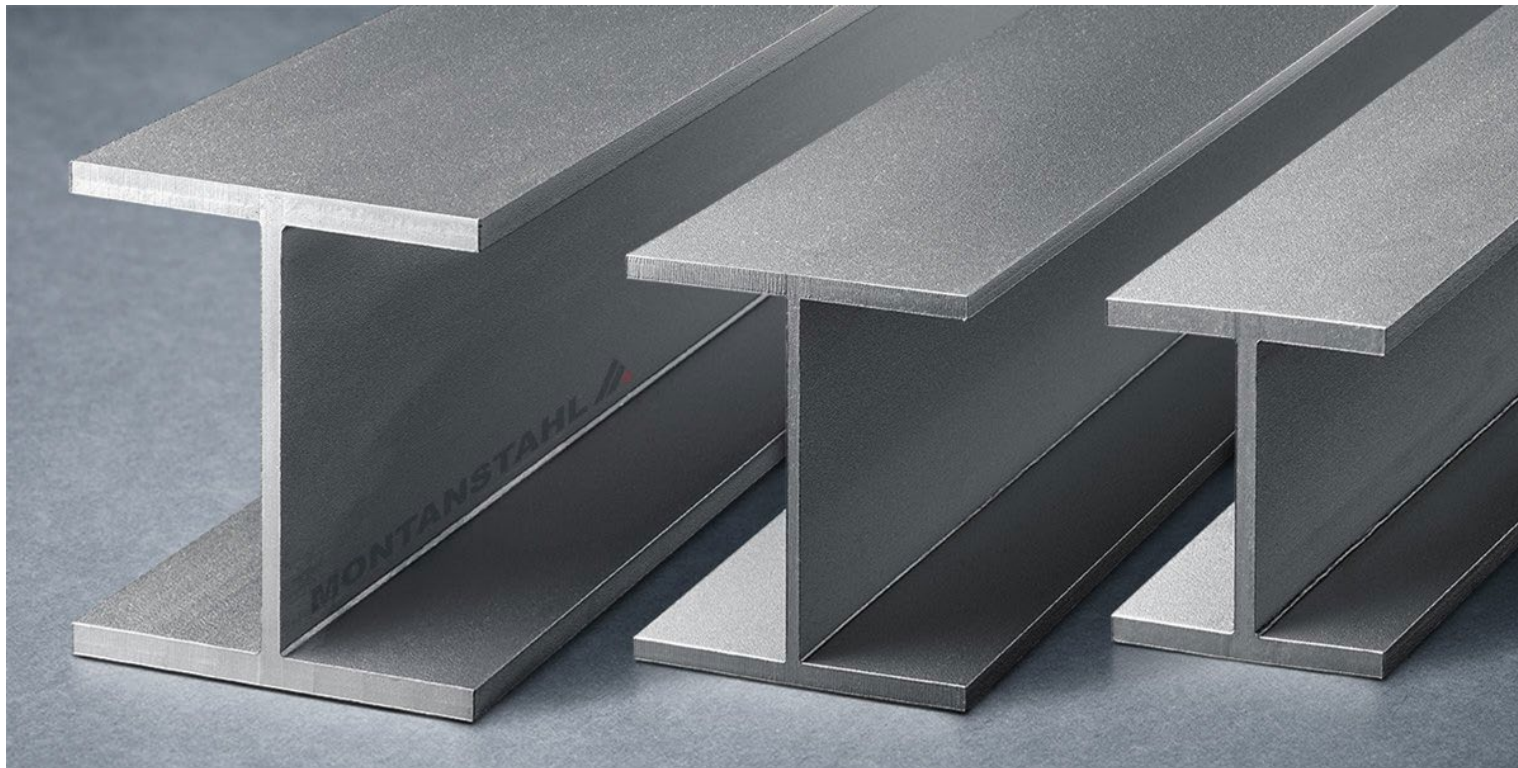
# RESISTENCIA A PANDEO LATERAL DE VIGAS CORRUGADAS



DAVID FERNÁNDEZ LACABE

Mayo 2022

La resistencia de las vigas a flexión depende en gran medida de su momento de inercia, que aumenta al alejar el material del eje de giro.

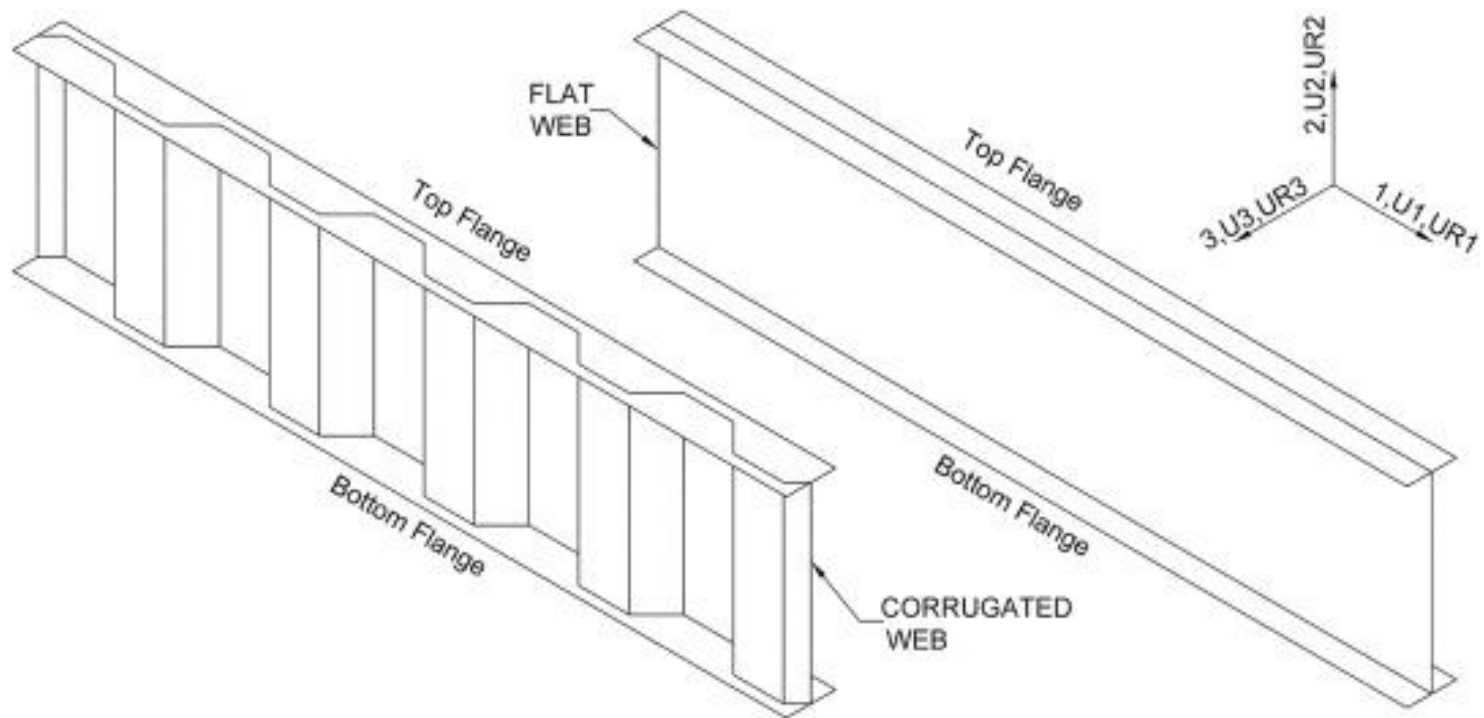
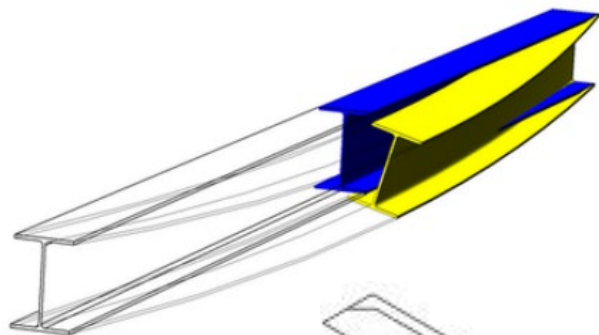




Cuando las vigas  
son muy largas  
aparece otro tipo  
de fallo:

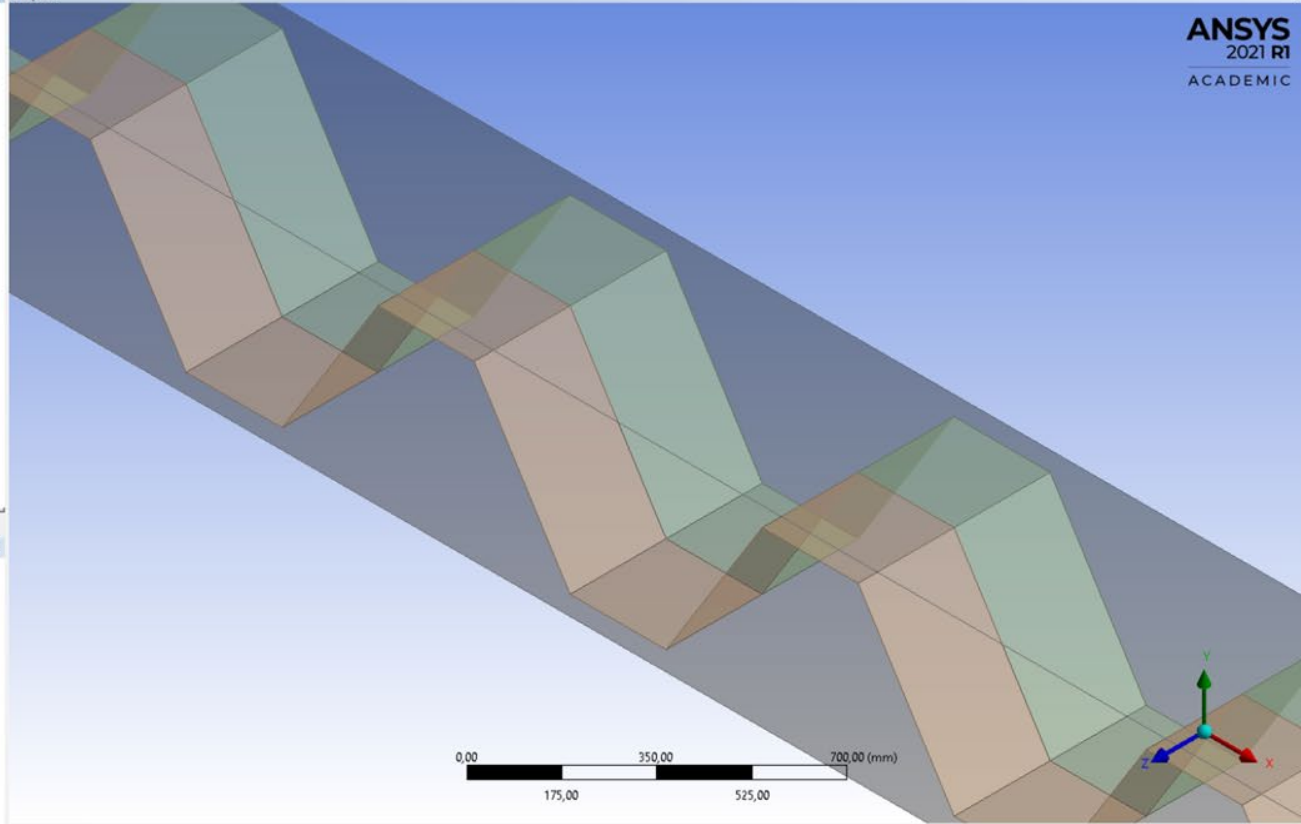
el **pandeo lateral**  
(Lateral Torsional  
Buckling)







- A: Giro solo un eje
  - XYPlane
  - ZXPlane
  - YZPlane
  - Extrude1
  - Extrude2
  - Pattern
  - Slice1
  - Projection1
  - Projection2
  - Boolean1
  - Slice2
  - Connect1
  - Slice3
  - 2 Parts, 4 Bodies



ANSYS  
2021 R1  
ACADEMIC

Sketching Modeling

Details View

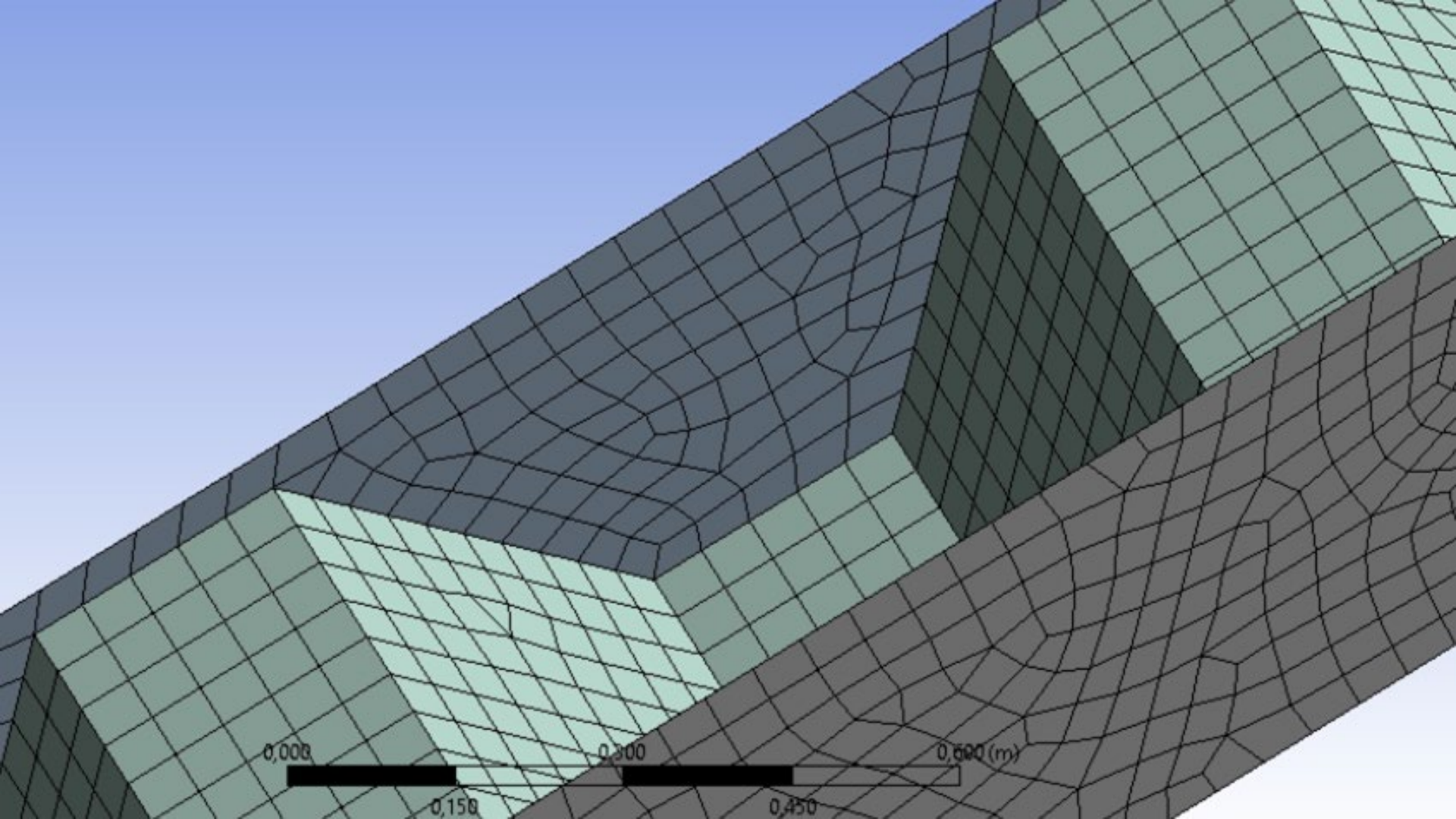
Model View Print Preview

Ready

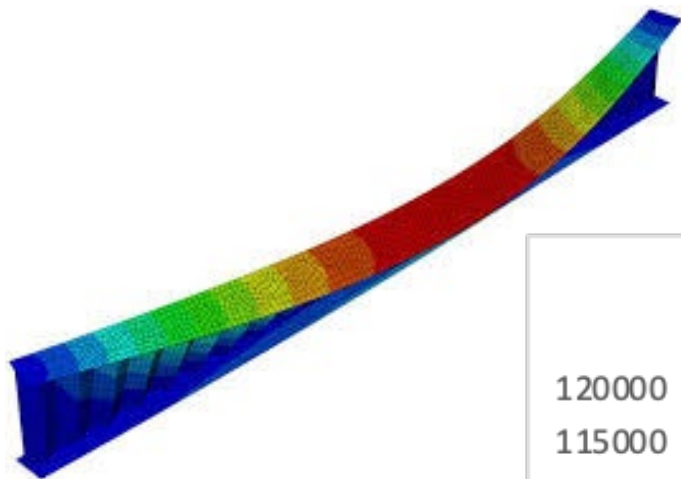
No Selection

Millimeter Degree

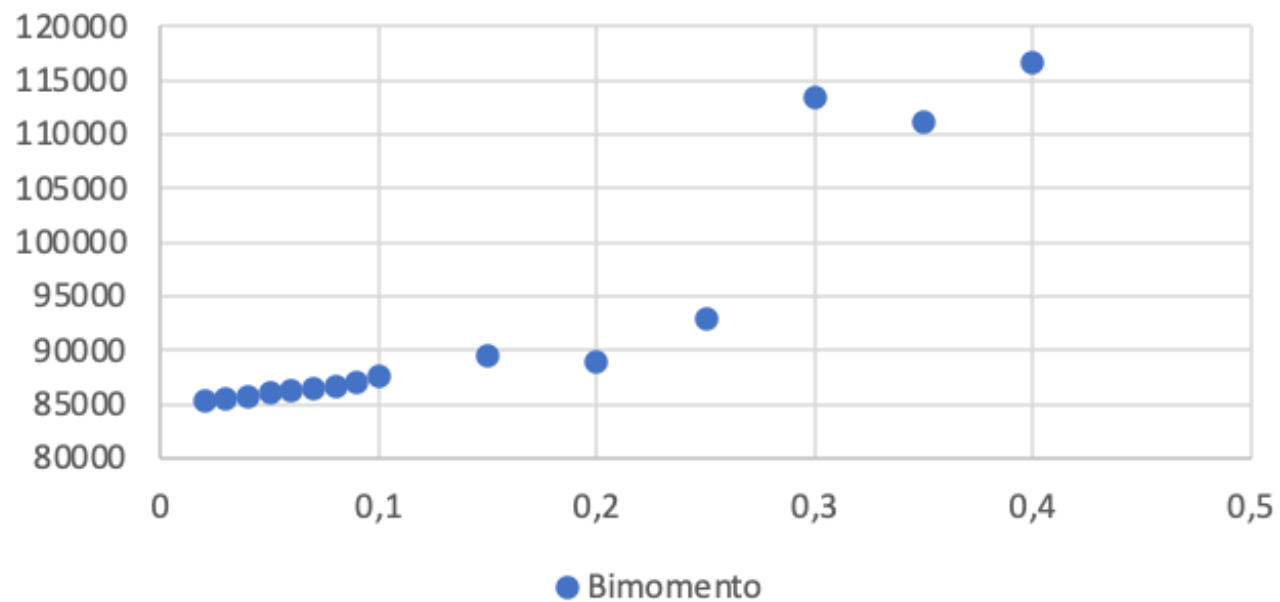
0 0







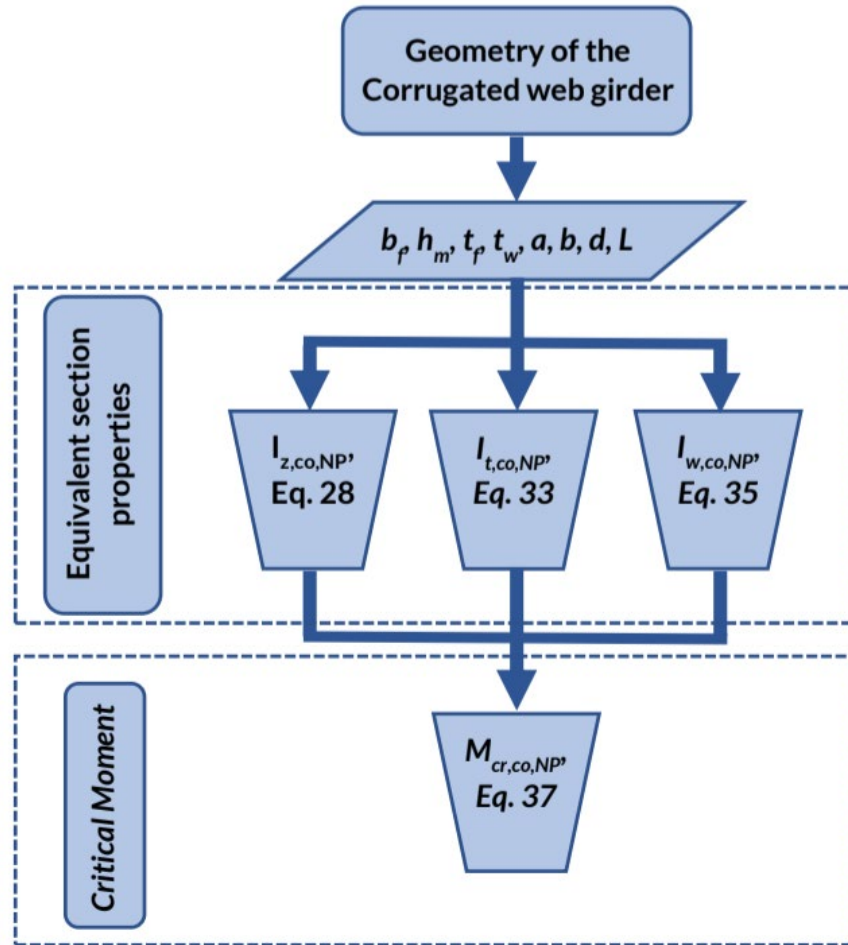
### Sensibilidad Tamaño elementos

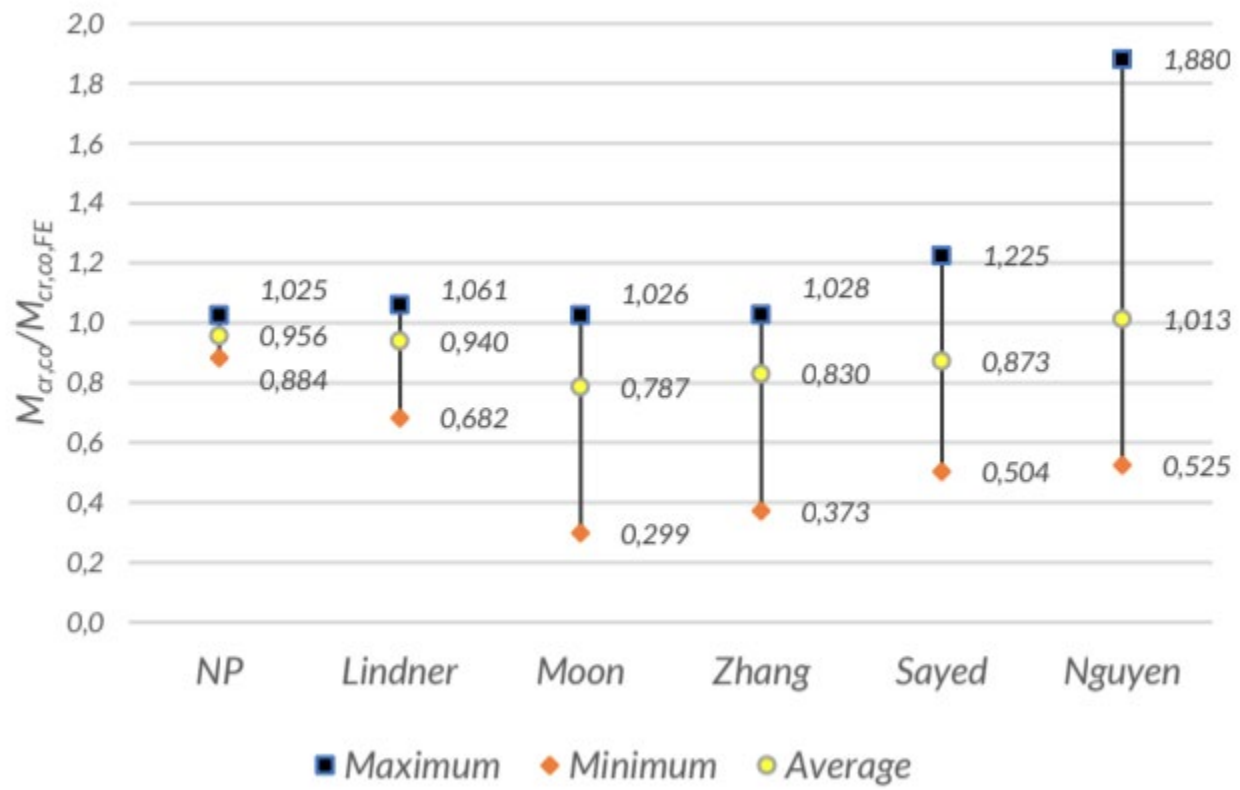


**Table 1** Types of corrugated web

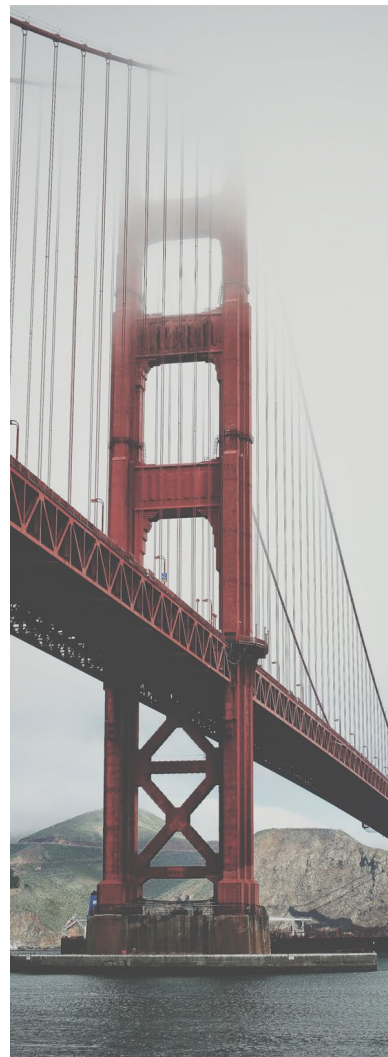
Type	Corrugated Web Shape
TRICW	
TRACW	
RECCW	

$$M_{cr,co} = \frac{\pi^2 EI_{z,co}}{L^2} \sqrt{\frac{I_{w,co}}{I_{z,co}} + \frac{L^2 GI_{t,co}}{\pi^2 EI_{z,co}}}$$





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