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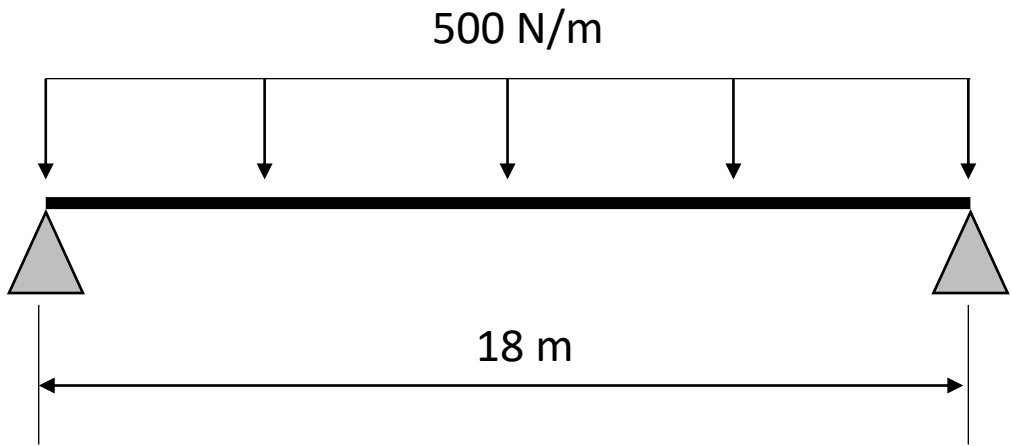
Teoría de Estructuras y Construcciones Industriales

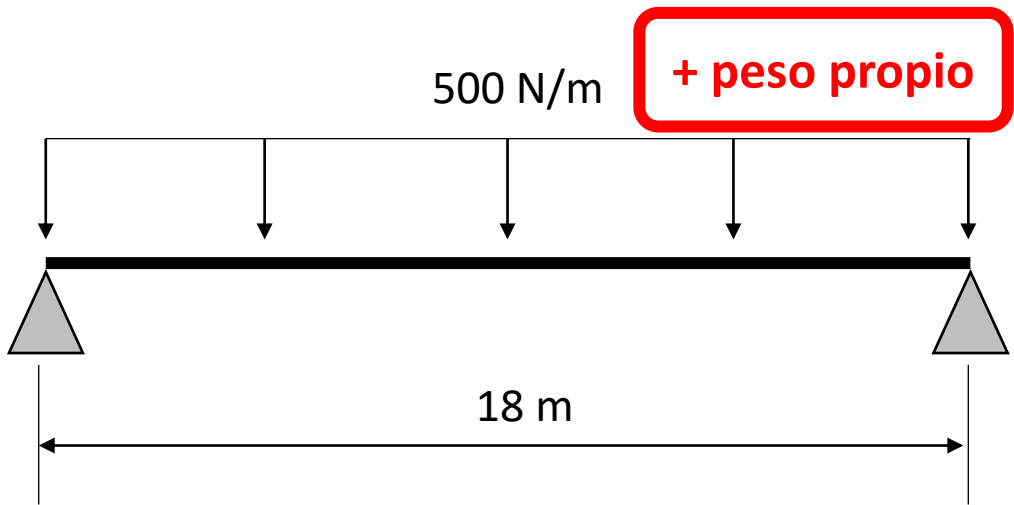
Carlos Santiuste Romero, Sara Garzón Hernández, Liu Jiao Wang,
Manuel Cuadrado Sanguino, Luis Jiménez Girón, Daniel Herrero Adán

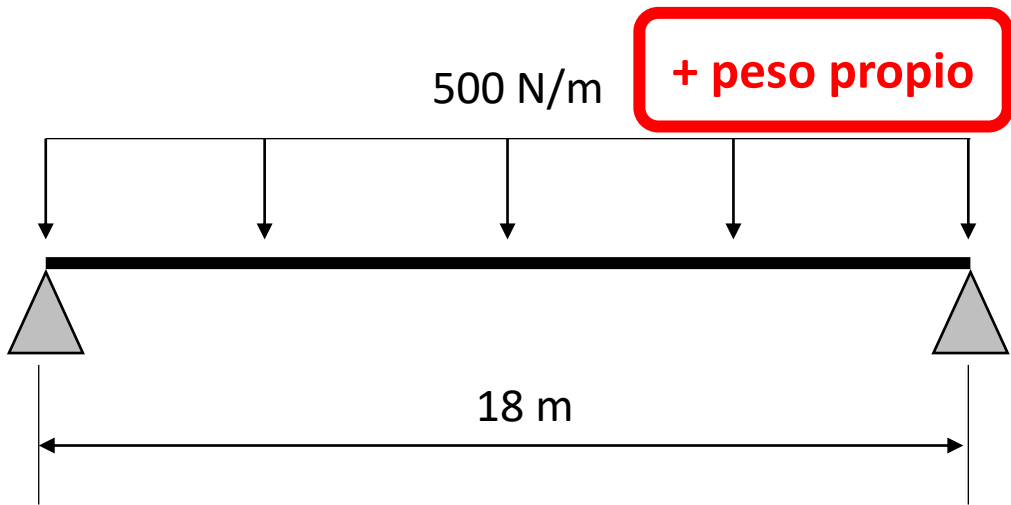
Proceso iterativo de cálculo por peso propio



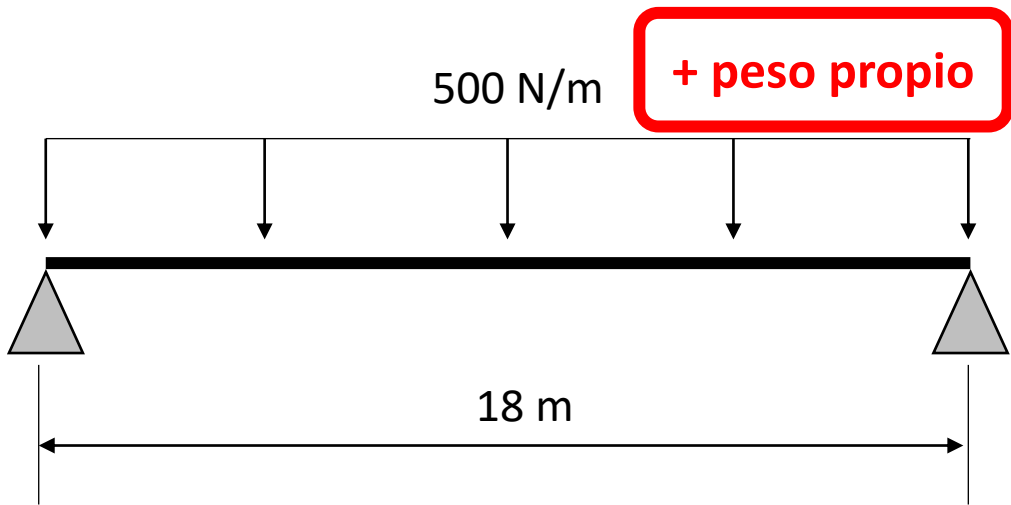






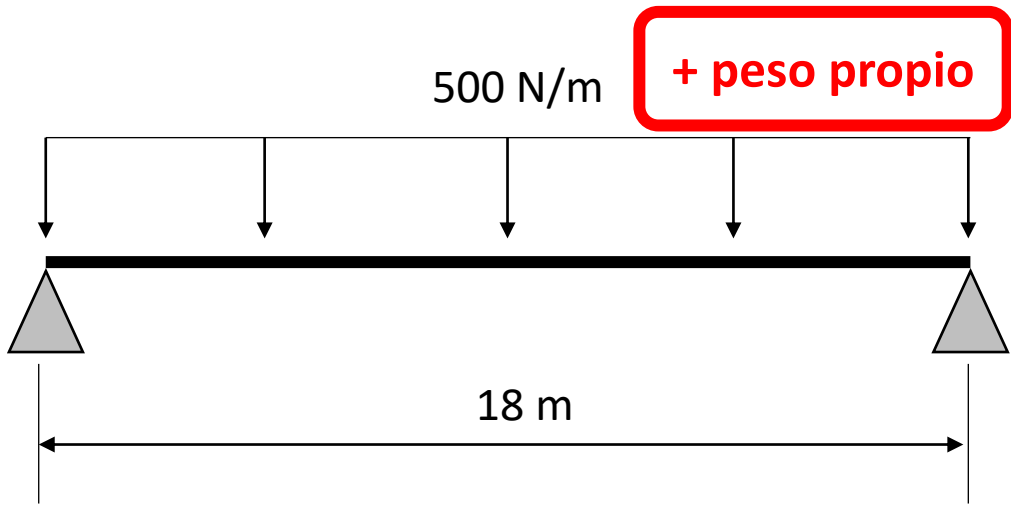


IPE-80:  $G = 6.0 \text{ Kg/m}$



IPE-80: **→** $G = 6.0 \text{ Kg/m}$

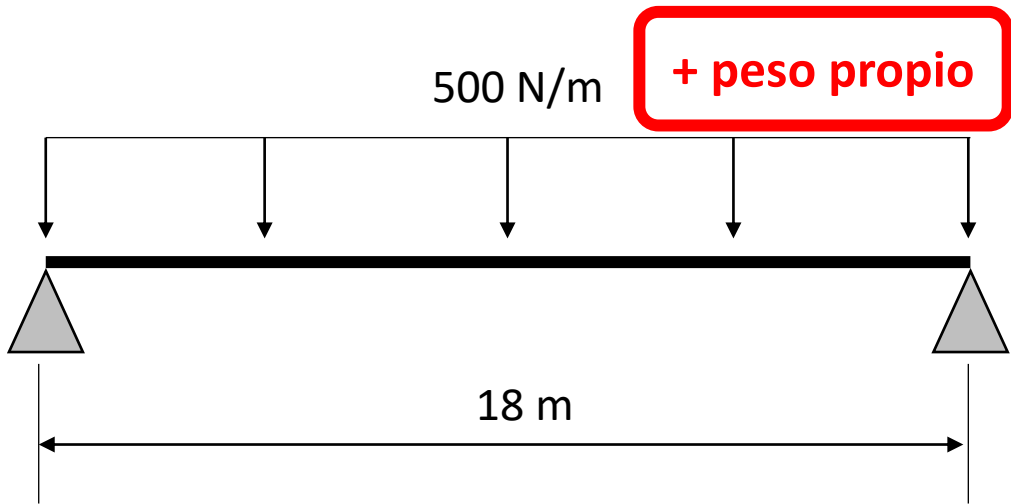
$Q = 560 \text{ N/m}$ **→** $M_{\max} = 22680 \text{ N}\cdot\text{m}$



IPE-80: **→** $G = 6.0 \text{ Kg/m}$

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S275 **→** $w_{\text{pl},\min} = 82.47 \cdot 10^3 \text{ mm}^3$

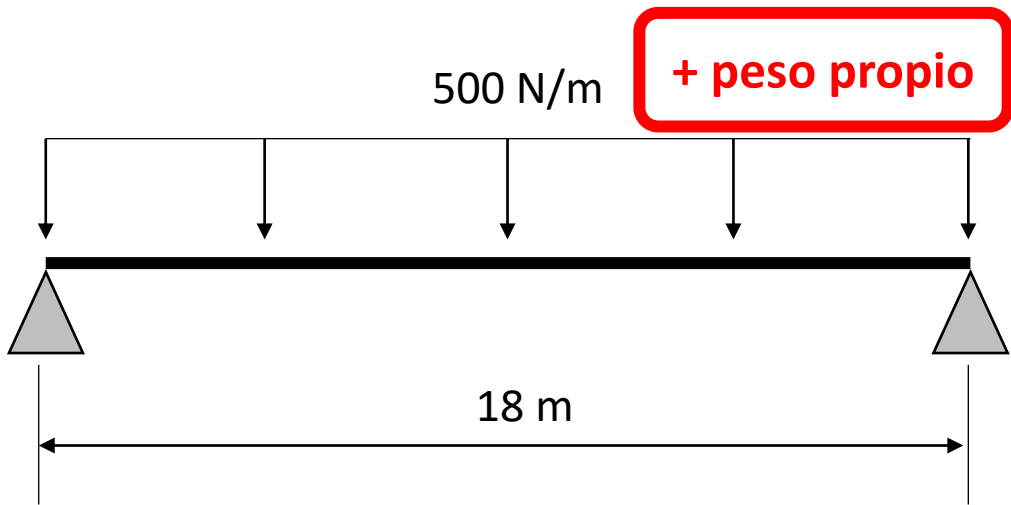


IPE-80: **→** $G = 6.0 \text{ Kg/m}$

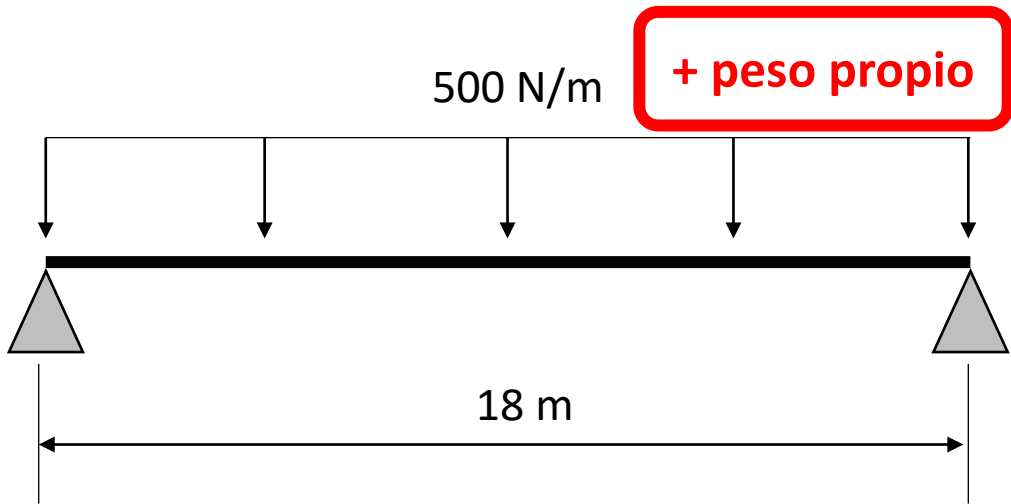
$Q = 560 \text{ N/m}$ **→** $M_{\max} = 22680 \text{ N}\cdot\text{m}$

S275 **→** $w_{pl,\min} = 82.47 \cdot 10^3 \text{ mm}^3$

IPE-140: $G = 12.9 \text{ Kg/m}$



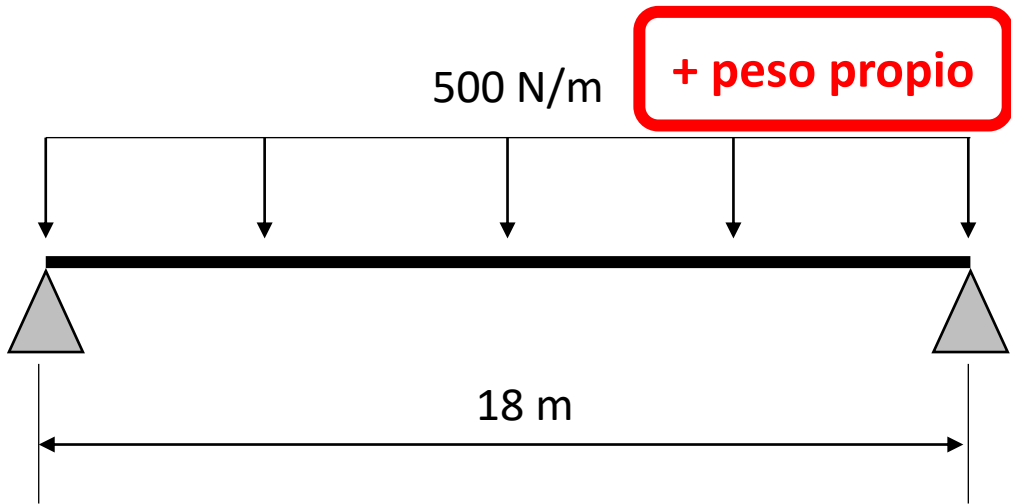
IPE-140:  $G = 12.9 \text{ Kg/m}$



IPE-140: \rightarrow $G = 12.9 \text{ Kg/m}$

$Q = 629 \text{ N/m}$ \rightarrow $M_{\max} = 25474 \text{ N}\cdot\text{m}$

$Q = 560 \text{ N/m}$ $M_{\max} = 22680 \text{ N}\cdot\text{m}$

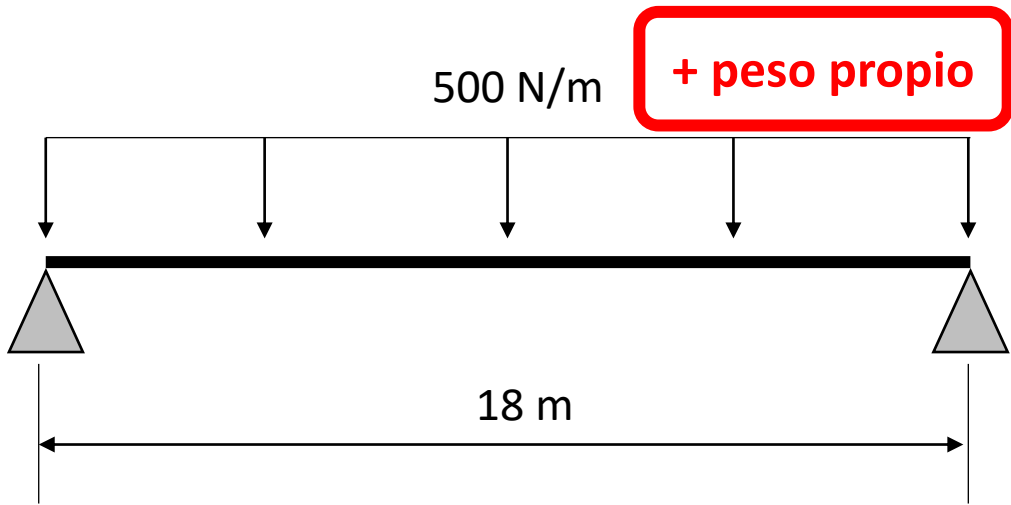


IPE-140: **→** $G = 12.9 \text{ Kg/m}$

$Q = 629 \text{ N/m}$ **→** $M_{\max} = 25474 \text{ N}\cdot\text{m}$

S275 **→** $w_{pl,\min} = 92.63 \cdot 10^3 \text{ mm}^3$

S275 $w_{pl,\min} = 82.47 \cdot 10^3 \text{ mm}^3$

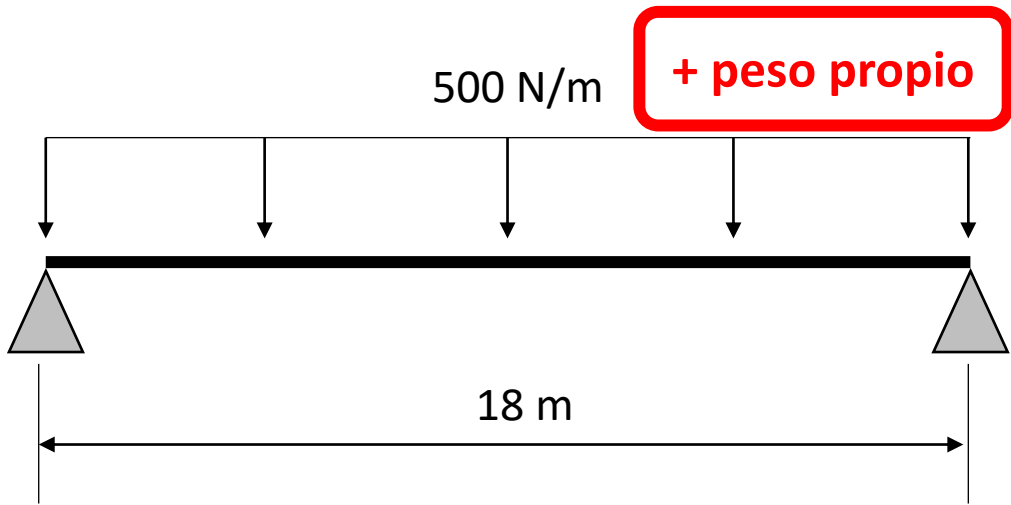


IPE-140: $\rightarrow G = 12.9 \text{ Kg/m}$

$Q = 629 \text{ N/m} \rightarrow M_{\max} = 25474 \text{ N}\cdot\text{m}$

S275 $\rightarrow w_{pl,\min} = 92.63 \cdot 10^3 \text{ mm}^3$

IPE-160: $G = 15.8 \text{ Kg/m}$



IPE-160: $\rightarrow G = 15.8 \text{ Kg/m}$

$Q = 658 \text{ N/m} \rightarrow M_{\max} = 26649 \text{ N}\cdot\text{m}$

S275 $\rightarrow w_{pl,\min} = 96.91 \cdot 10^3 \text{ mm}^3$

IPE-160: $G = 15.8 \text{ Kg/m}$

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