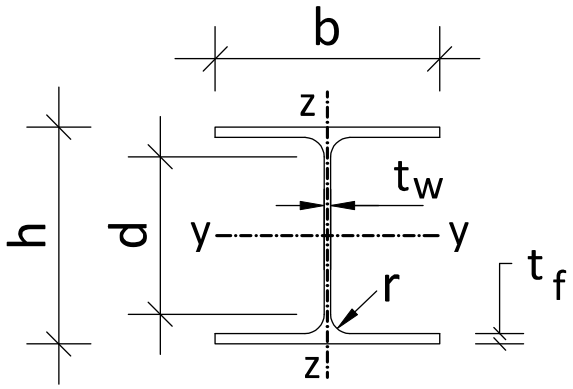
Buiging volgen NEN-EN 1993-1-1 artikel 6.2.5
doorsnede klassen 1 en 2

Geometrie



Materialen en profiel

Staal	=	S235
f_y	=	235 N/mm²
Profieltype	=	HEB
Gekozen profiel	=	HEB 200
Weerstandsmoment W_{pl}	=	$643*10^3$ mm³

Belastingen

M_{Ed} = 89 kNm

Sterkte

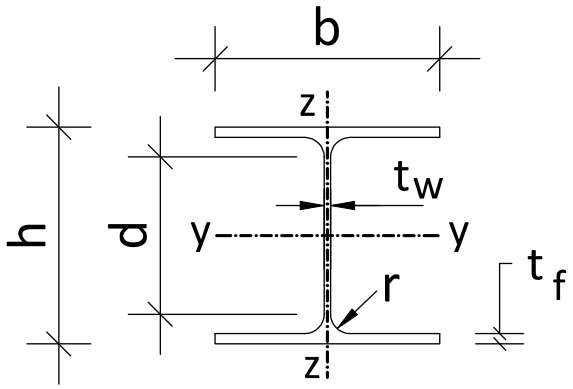
$$M_{c,Rd} = \frac{W_{pl} * f_y}{1,0} * 10^{-6} = 151 \text{ kN}$$

Toetsing

$$uc = \frac{M_{Ed}}{M_{c,Rd}} = \frac{89}{151} = 0,59 \leq 1,00$$

Buiging volgen NEN-EN 1993-1-1 artikel 6.2.5
doorsnede klasse 3

Geometrie



Materialen en profiel

Staal	=	S235
f_y	=	235 N/mm²
Profieltype	=	HEA
Gekozen profiel	=	HEA 260
Weerstandsmoment W_{el}	=	$836*10^3$ mm³

Belastingen

M_{Ed} = 89 kNm

Sterkte

$$M_{c,Rd} = \frac{W_{el} * f_y}{1,0} * 10^{-6} = 196 \text{ kN}$$

Toetsing

$$uc = \frac{M_{Ed}}{M_{c,Rd}} = \frac{89}{196} = 0,45 \leq 1,00$$