$M_{inner} := \left(3.492 \cdot 10^{8}\right)\ N \cdot m$ $\sigma_{max} := 690\ MPa$ $I = \dfrac{M \cdot c}{\sigma_{max}}$

filling in the equation gives me the correct number but I would prefer unit $mm^4$

$$I_{inner.ideaal} := \frac{M_{inner} \cdot 195}{690} = \left(9.869 \cdot 10^{7}\right)\ J$$

For the preferred unit result in $mm^4$ Mathcad lets me rearange things but then the equation looks weird

$$I_{inner.ideaal} := \frac{M_{inner} \cdot \frac{mm}{1000} \cdot 195}{\sigma_{max}} = \left(9.869 \cdot 10^{7}\right)\ mm^4$$