

Parameters	Symbol	Value
Length	$L$	8 m
Width	$b$	1 m
Thickness	$h$	20 cm
Concrete cover	$e_{exc}$	4 cm
Mass density (S)	$\rho_s$	7500 kg m <sup>-3</sup>
Mass density (C)	$\rho_c$	2500 kg m <sup>-3</sup>
Young modulus (S)	$E_s$	200 GPa
Young modulus (C)	$E_c$	30 GPa
Poisson ratio (S)	$\nu_c$	0.3
Poisson ratio (C)	$\nu_c$	0.2
Ult. tensile strain (S)	$\epsilon_{su}$	0.01
Ult. compressive strain (C)	$\epsilon_{cu}$	-0.0035
Ult. compressive strength (C)	$f_c$	30 MPa
Reinforcement ratio	$\rho_r$	0.4 %
Yield strength (S)	$f_y$	500 MPa