

Steel	Steel	Es	210000.00 N/mm2	
	Area	As	813.90 mm2	
	Centroid	Xs	12.96 mm	
	Inertia	Is	3.690E+05 mm4	
Concrete	Concrete	Ec	20000.00 N/mm2	
	Area	Ac	6096.05 mm2	
	Centroid	Xc	59.24 mm	
	Inertia	Ic	2.629E+07 mm4	
Glass	Glass	Eg	70000.00 N/mm2	
	Area	Ag	5398.76 mm2	
	Centroid	Xg	58.60 mm	
	Inertia	Ig	2.712E+07 mm4	
Modular Ratio	Concrete	n_c	0.0952	Into Steel
	Glass	n_g	0.1897	Into Steel
Calculation of Neutral Axis				
<i>Moments about base of Flange</i>				
	Steel		10547.33 mm3	Centroid x Area
	Concrete		34392.17 mm3	$n_c \times \text{Centroid} \times \text{Area}$
	Glass		60015.00 mm3	$n_g \times \text{Centroid} \times \text{Area}$
	Sum of Moments		104954.49 mm3	
	Sum of Areas		2418.62 mm2	$As + n_c Ac + n_g Ag$
Position of N.A.	N.A. Offset	h	43.39 mm	Moments/Areas
Calculation of Moment of Inertia				
	Steel		1.123E+06 mm4	$Is + As(N.A.-Xs)^2$
	Concrete		2.644E+07 mm4	$Ic + n_c Ac(N.A.-Xc)^2$
	Glass		2.735E+07 mm4	$Ig + n_g Ag(N.A.-Xg)^2$
	Transformed I	It	5.492E+07 mm4	
	Transformed A	At	2418.62 mm	