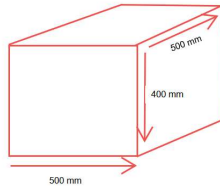


Calculation of Tensile forces in the Nib



Width of the Nib	W	=	500	mm
Length of the Nib	L	=	500	mm
Thickness of the Nib	t	=	400	mm
Diameter of the bar provided	ϕ	=	16	mm
No of bars in the Nip	n	=	4	Nos.
Clear Cover	C_c	=	40	mm
Clear Spacing	S	=	304	mm
Shear Calculation				
Ultimate Shear from the support Reactions	V	=	50	kN
Shear per each bar	V/n	=	12.5	kN
Note: Considering Shear acting at the center				
Moment in the Nib	M_u	=	12.5	kN.m
Total Tension the Nib	T_u	=	41.1	kN
Total Tension in each bar	T_{bar}	=	10.3	kN
Results				
Total Tension in each bar	T_{bar}	=	10.3	kN
Shear per each bar	V/n	=	12.5	kN