Inertia calculation for C-section

Item	Area mm^2	y-bar mm	A*y mm^3	$A*y^2$ mm^4	I_0 mm^4
Part A	1500	5	7500	37500	12500
Part B	2920	156	455520	71061120	20747573
Part C	1000	307	307000	94249000	8333
Total	5420	142.07	770020	165347620	20768407

Total area = 5420 mm^2

N.A. = 142.07 mm above base

$$I_{NA} = \Sigma I_0 + \Sigma A*y^2 - A*y^2$$

I_{NA} = 186116027

\- 109396827

I_{NA} = 76719200 mm^4