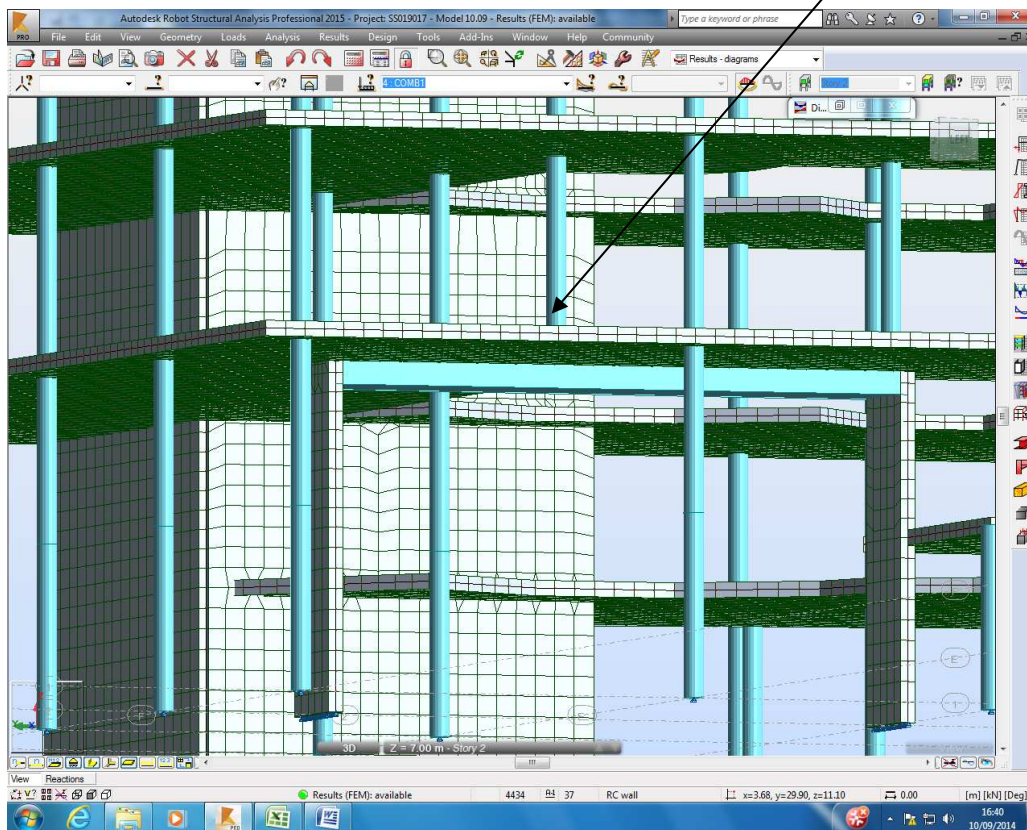
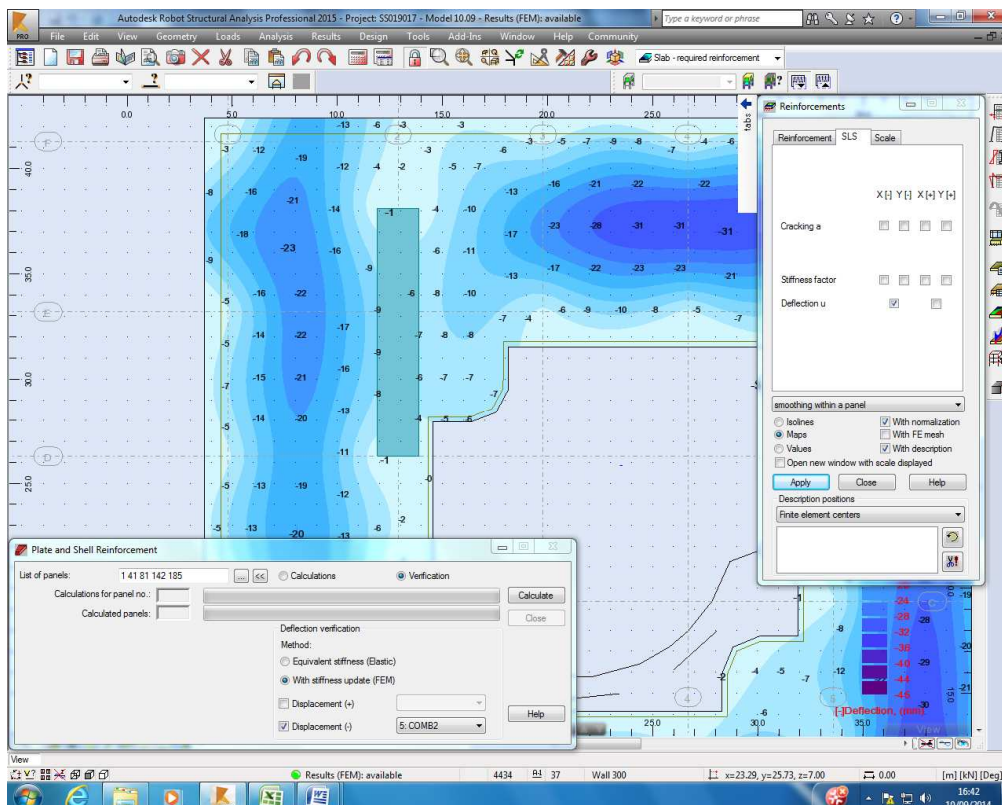


View of the transfer beam:

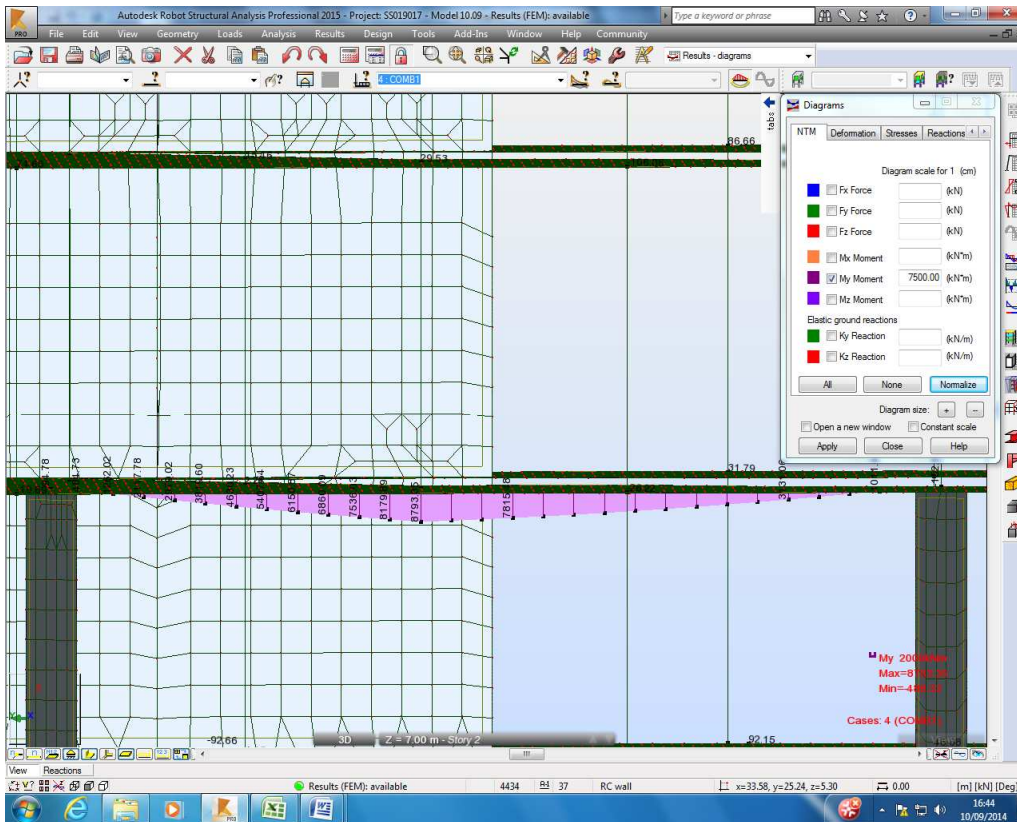
Carried column



Long term deflection:

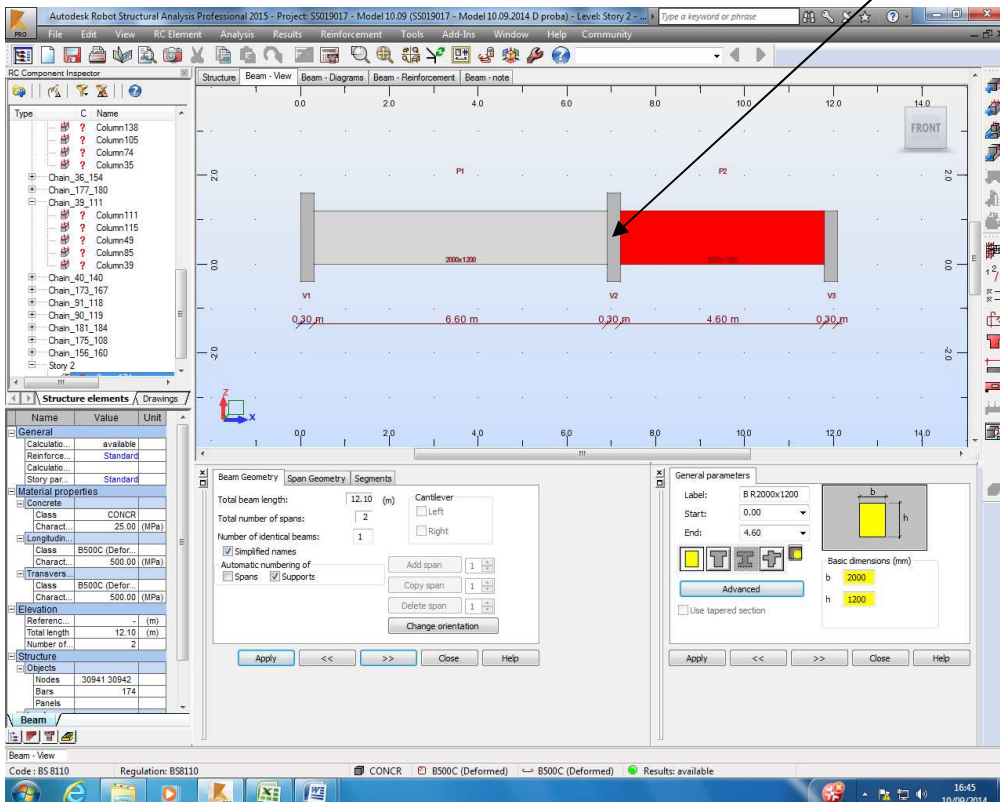


Beam bending moment:

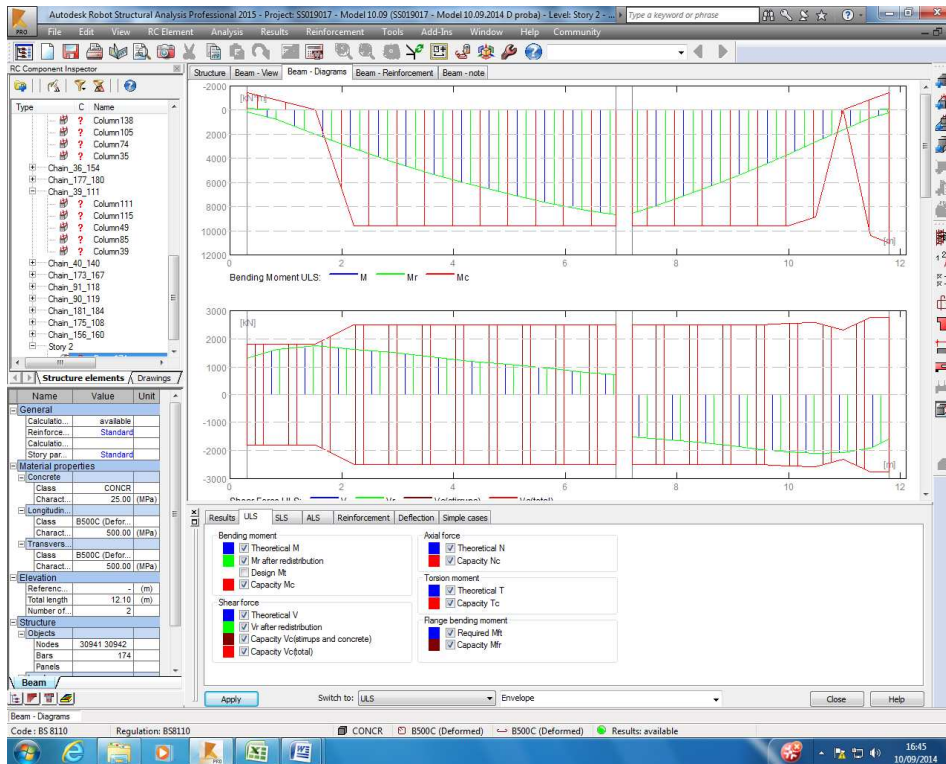


There is no support here

In provided reinforcement mode beam is broken into two segments:

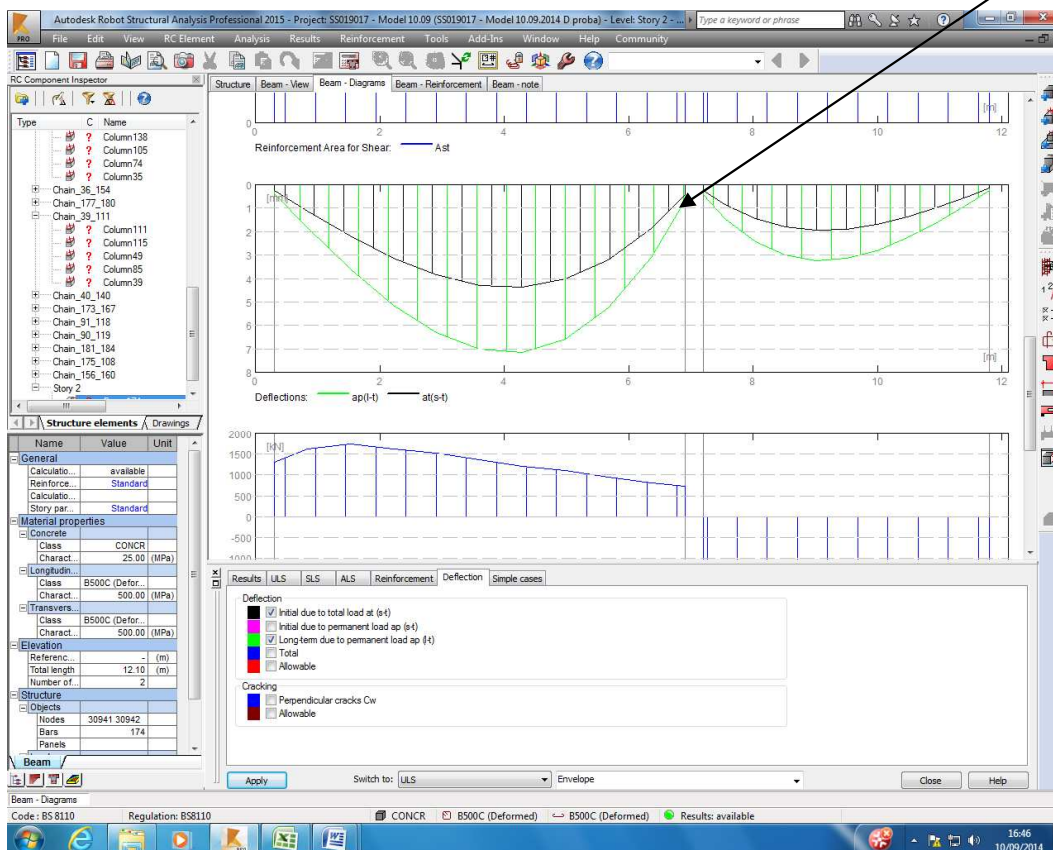


Diagrams moments and shear:



There is no support here

Long term deflection:



Calculations result:

The screenshot displays the Autodesk Robot Structural Analysis Professional 2015 interface. The main window shows a beam reinforcement diagram for 'Beam174' on 'Level: Story 2'. The diagram plots 'Reinforcement Area for Shear' (Ast) and 'Deflection' against the beam length (0 to 12m). A 'Calculation errors' dialog box is open, listing errors for 'Beam174'.

No.	Type	State	Span	x [m]	Value	Capacity	Safety Fac.
1	The quantity of longitudinal reinforcement has been augmented due to perpendicular cracks						
2	M [kN/m]	ULS	1	0.30	175.06	0.00	0.00
3	M [kN/m]	ULS	2	10.97	1611.31	0.00	0.00
4	Astp [mm]	SLS	1	6.90	0.35	0.30	0.85
5	Astp [mm]	SLS	2	7.20	0.35	0.30	0.87
6	Absmin [cm2]	SLS	1	0.30	26.17	0.00	0.00

The dialog box also includes a 'Results' section with checkboxes for 'Deflection' (Initial due to total load at (s-t), Initial due to permanent load ap (s-t), Long-term due to permanent load ap (s-t), Total, Allowable) and 'Cracking' (Perpendicular cracks Cw, Allowable).