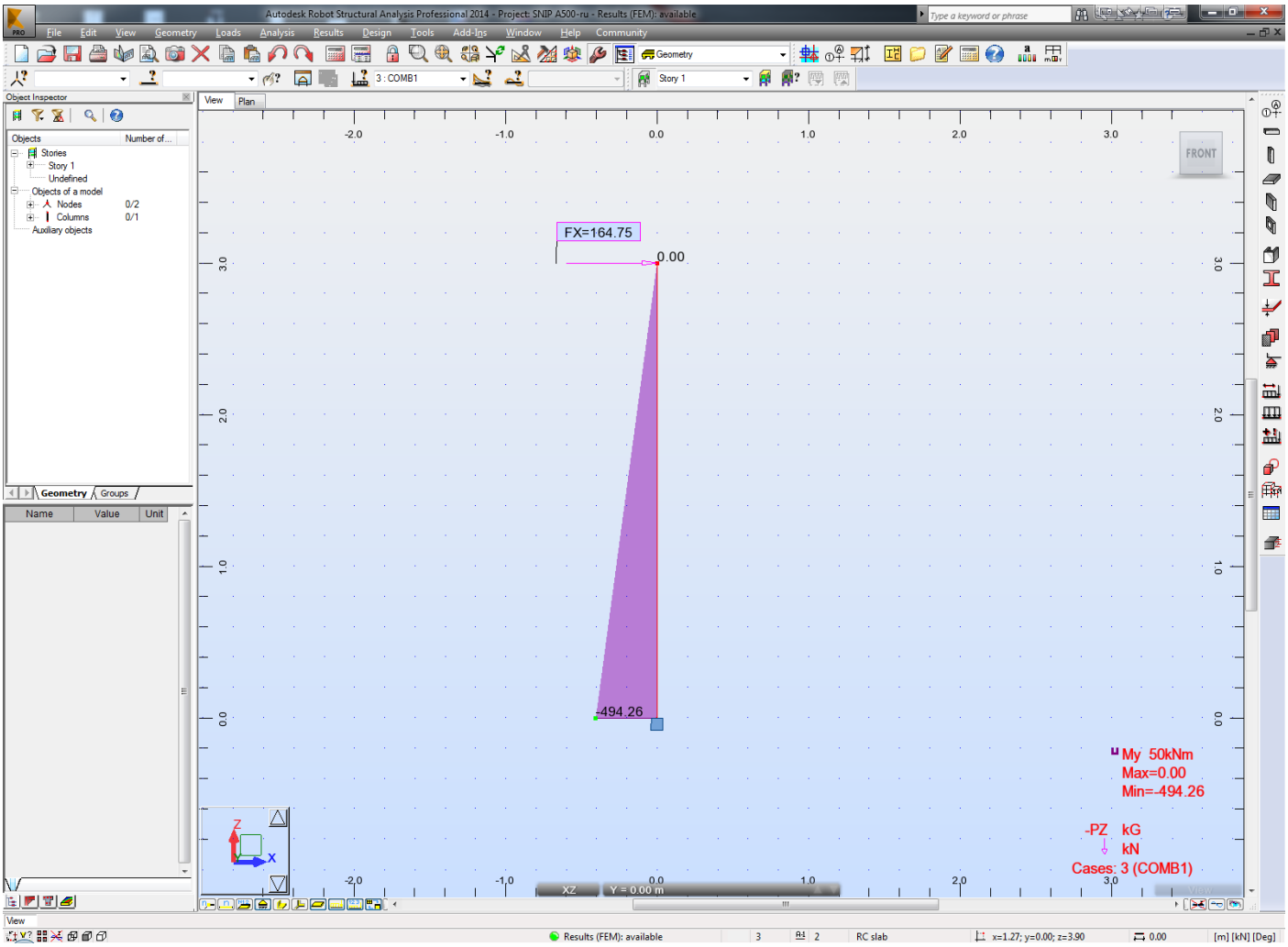
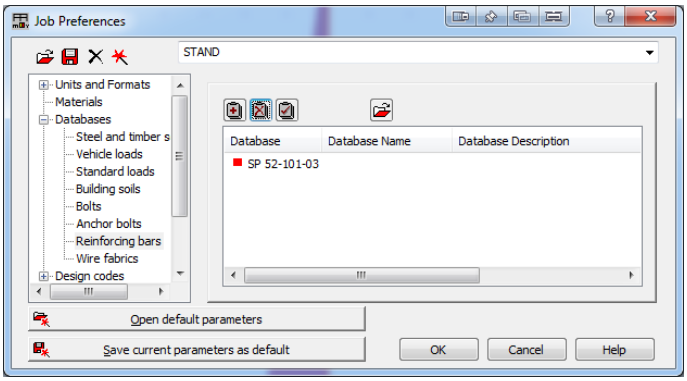
AUTODESK ROBOT STRUCTURAL ANALYSIS – COLUMN REQUIRED REINFORCEMENT DESIGN

REINFORCING BAR STRENGTH PROBLEM with RUSSIAN SP-52-101-03 REBAR DATABASE

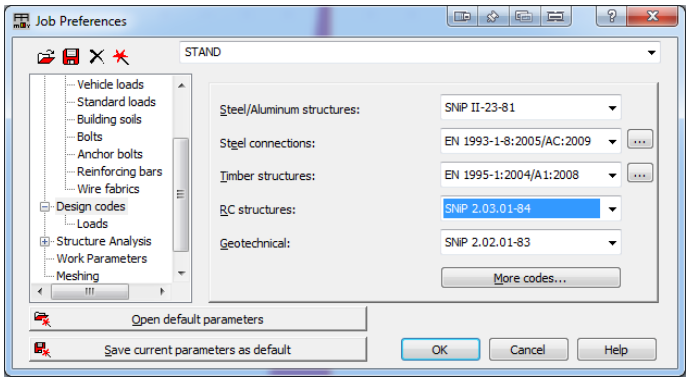
Model content: Simple column with fixed support and lateral load at tip point.



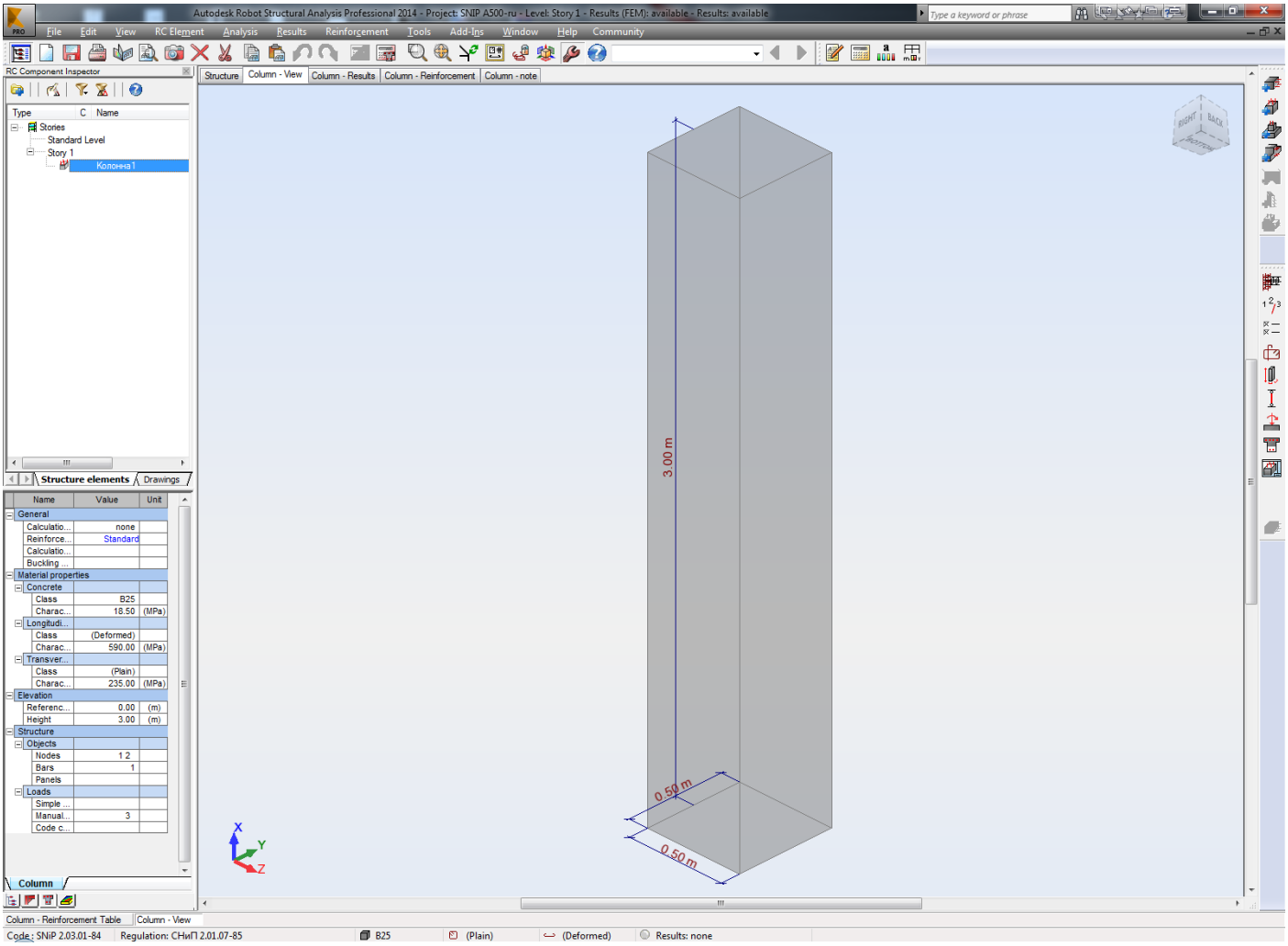
Rebar database selected as: SP52-101-03



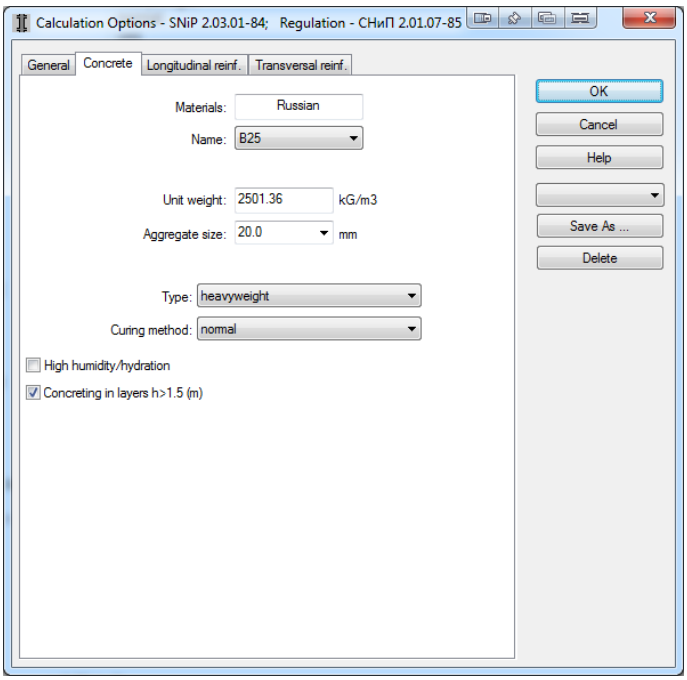
Design code selected as: Snip 2.03.01-84



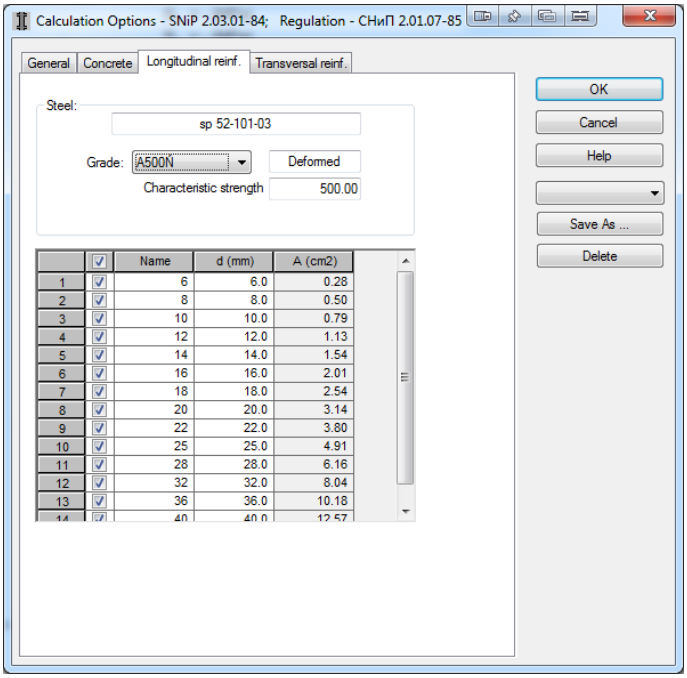
Switching to the Required Reinforcement module



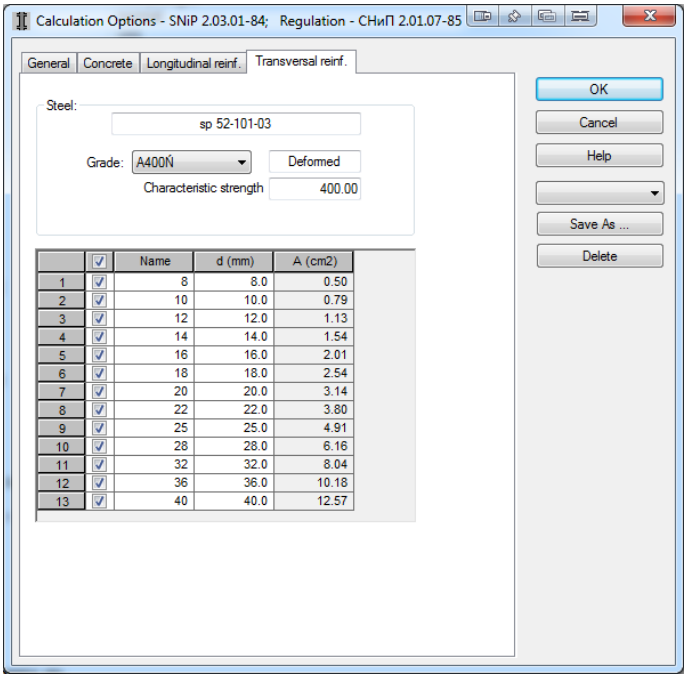
Concrete selected as standard Russian B25



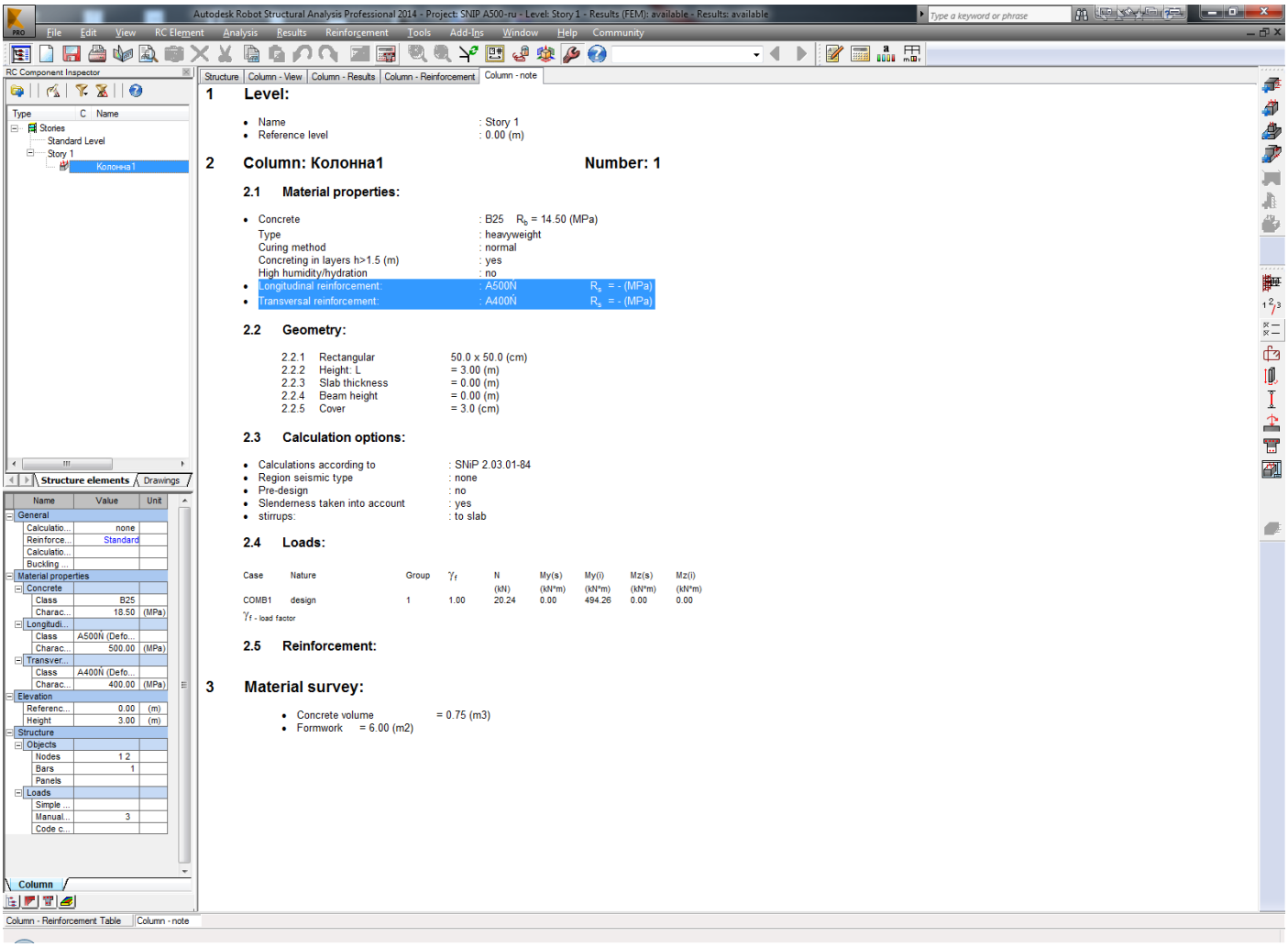
Reinforcement Grade for longitudinal bars: A500



Reinforcement Grade for longitudinal bars: A400

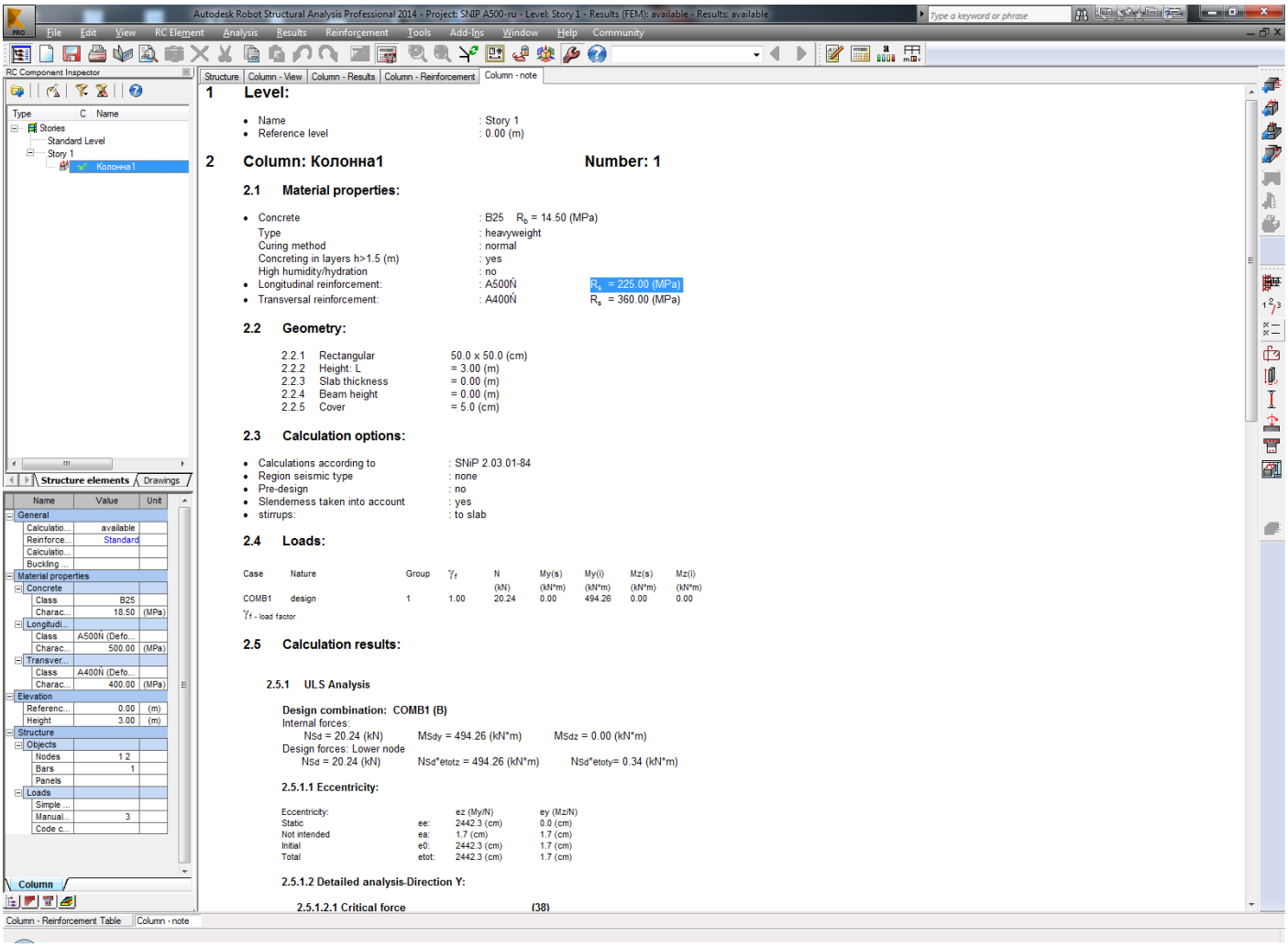


Before calculations



After calculations; A500 design strength is reported as 225MPa and column is designed per this value.

However it should be ~445 MPa



Other grades design strengths are also taken incorrectly; fixed to 225 MPa such as: