

Autodesk Robot Structural Analysis Professional 2014 - Project: AUTODESK TANK ROOF\_REV1 2014 ROOF PLATE TEST\_1 - Results (FEM): during analysis

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Autodesk Robot Structural Analysis Professional - Calculations

1-10-2013 SEISMIC ANALYSIS 16:21:09

BLOCK SUBSPACE ITERATION

SEISMIC ANALYSIS

Iteration number: 240/32000  
 Started at: 16:19:42  
 Average duration: 00:00:07

Convergence

Required: 1.00E-004  
 Current: 5.55E-005

Case: 8  
 Mode: 163/430

Process parameter: 2.39E+002

Calculation Messages

**15:49:23 Start of the analysis**  
 It is suggested to use 'DSC algorithm' in case of dynamic and non-linear analysis of structure containing relea  
 Instability (of type 3) detected at node 1651 in direction RX.  
 Number of missing eigenvalues found = 3.  
 Number of missing eigenvalues found = 2.

Convergence of iteration

Statistics

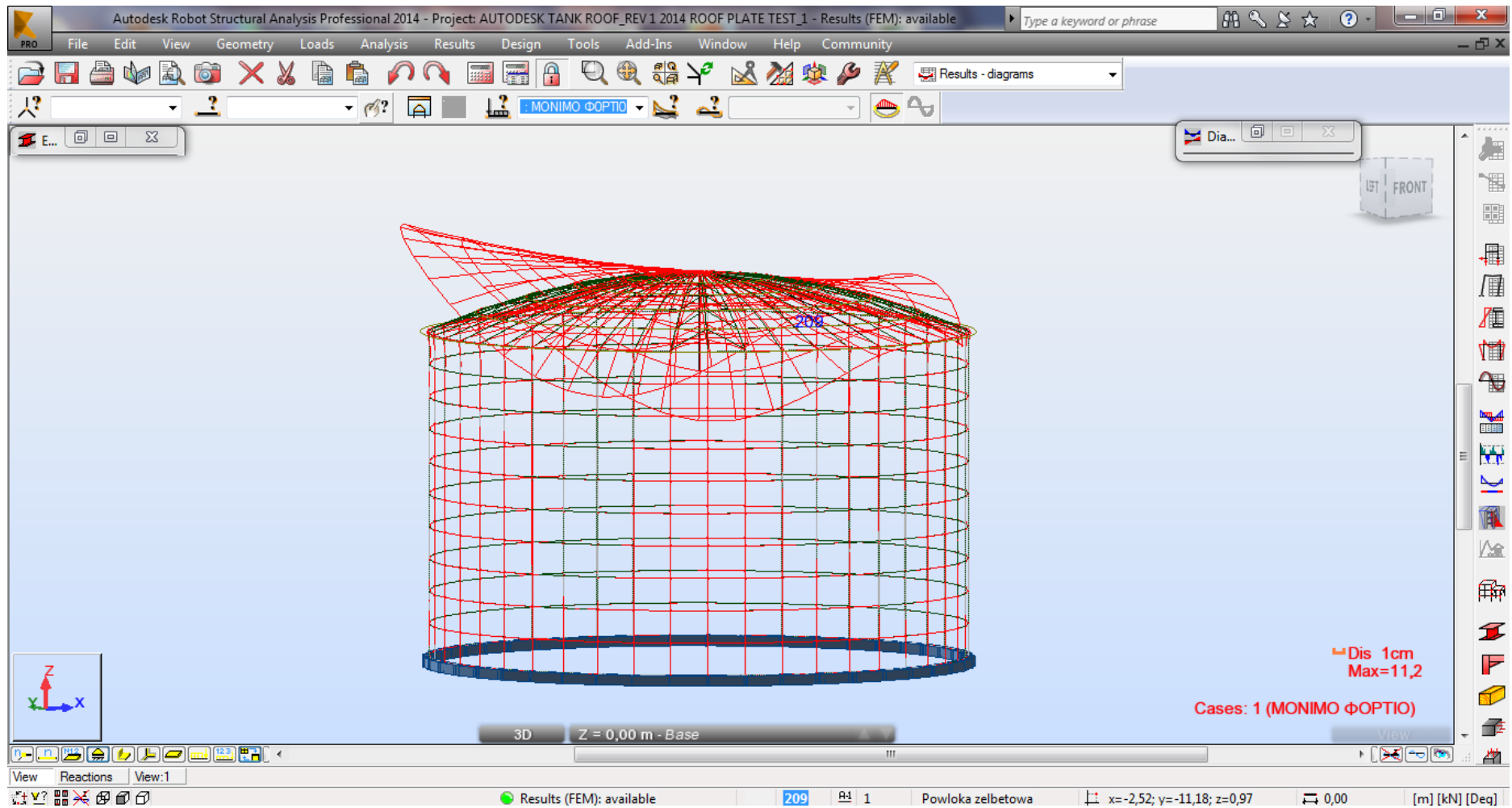
Number of Nodes	: 1013	Resources	In Use
Number of Elements	: 1291	Memory	524.777
Number of Equations	: 5808	Disk	135600.387
Frontwidth			4.004
Initial	:	Case	8
Optimized	:	Start of Analysis :	16:20:09
Number of blocks:	:	Estimat. Run Time :	2 min 30 sec
		Calculation Priorities	Normal

Pause Stop Help

View

Results (FEM): during analysis 2 A1 1 TH30\_CON x=0.00, y=0.00, z=0.00 0 [m] [kN] [Deg]

**Deformation** under uniform dead load!!! Results without using DSC algorithm. It's like the roof panel is not supported by the roof beams



### Exact deformation on bars for the same case

