

Service Pack SP2 Enhancement List

for:

Autodesk® Robot™ Structural Analysis 2009 software

Autodesk® Robot™ Structural Analysis Professional 2009 software

Changes in Service Pack 2 for version 22.0.1.2950:

General:

- Modify option for installed software has been blocked.
- Multiple round-tripping Revit® link while using U.S. material database has been enabled.

Analysis:

- Acceleration spectrum according to Chinese codes (JTJ004-89, JTJ225-98) for bridges and harbor structures has been corrected.
- Base shear scaling for seismic analysis has been fixed.

Results:

- Window operations on elasto-plastic diagrams have been corrected.
- Mouse scrolling of printout page setup has been corrected.

Steel connection design:

- Verification of fixed column base for unidirectional bending with relatively small bending in opposite direction has been corrected.

Steel members design:

- $C_{my,0}$ factor for bisymmetrical sections design according to French NA to Eurocode 3 (NF EN 1993-1-1/NA Mai 2007) has been corrected.
- Taking into account the user-defined partial load/safety factors for Spanish code SE-A:2006 has been fixed.

Concrete members design:

- Storing of the steel grade for transversal reinforcement has been fixed.
- Shape code change in the reinforcement table for spread footings has been fixed.
- Table definition of holes for multispan beam-walls has been fixed.
- Display of dialog controls for T-section has been corrected.
- Proper steel grades for ACI 318-08 r-bars database have been fixed.
- Generation of antishrinkage reinforcement on cantilevers for the French code BAEL has been corrected.
- Unjustified warnings during beam calculations have been removed.
- A proper order of reinforcement bars numbering for r/c beams drawings has been fixed.
- Import of bending moments has been corrected for r/c beams for which calculation elements are within support size
- Tab refreshing for r/c beams new bar dialog opening has been fixed.
- R/C columns verification for fire resistance, according to French code BAEL has been fixed.
- Shear resistance calculation in presence of axial force has been corrected.
- Design of continuous footings for loads imported from CBS program has been fixed.
- Pier reinforcement for spread footing has been corrected.
- Import of forces from manual combinations for r/c slab punching calculation has been fixed.

- Minimum reinforcement for the whole compressed or tensioned panels according to Eurocode 2 has been fixed.



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