

Advance Design 2015 / Hotfix

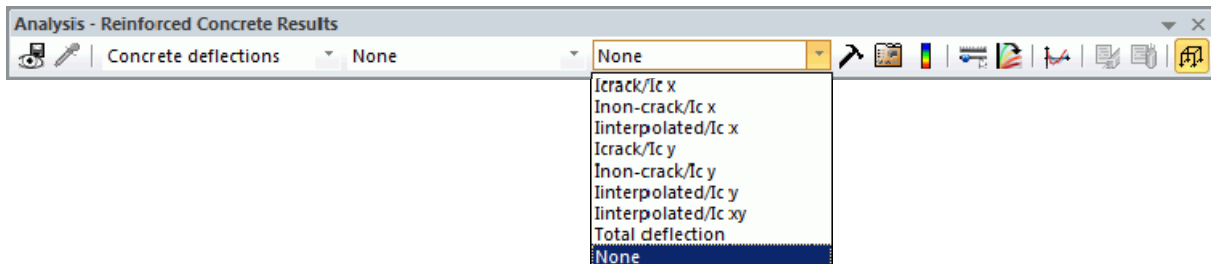


DESCRIPTION

This hotfix has to be installed over the 2015 SP0 release of Advance Design. It improves the concrete deflection calculation on slabs, implemented in the 2015 release.

This hotfix allow the user to post process the concrete deflection values on planar elements automatically taking into account the long term effects of the creep coefficient.

A new entry has been added to the « Analysis – Reinforced Concrete Results » toolbar to display this result family:



The displayed results correspond to the FEM displacements calculated during the last iteration (cf « What's new » document of Advance Design 2015) modified by the creep coefficient in order to take into account the long term effects.

Then, for all meshes, Advance Design multiplies the FEM displacements by the ratio $E_{mat}/E_{c,eff}$:

- « E_{mat} » is the Young material module defined in the FEM characteristics.
- « $E_{c,eff}$ » is the EC2 long term Young module => $E_{c,eff} = E_{cm} / (1 + \phi)$.
- « ϕ » is the creep coefficient calculated during the last concrete design sequence.