



RCDC (SACD) V11.02

Release Notes

RCDC V11.02.00 is here with new features enhancing the design capabilities. The newly introduced features are:

No	Module	Description
1	General	Addition of German Annex to Euro code – DIN EN 1992-1-1/NA :2013-04
2	General	Addition of American code ACI 318M-19
3	General	RCDC compatible with Windows 11
4	General	Enhancements
5	General	Defects Resolved



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General

Addition of German Annex to Euro code – DIN EN 1992-1-1/NA :2013-04

German Annex to Euro code – DIN EN 1992-1-1/NA :2013-04 is added in RCDC. Design of Columns, Shear Walls, Beams, Footings, Pile-caps, Slabs and tank structures as per Euro code – DIN EN 1992-1-1/NA :2013-04 are now available in RCDC. The details for Ductile (seismic) design as per German Annex are under revision. Currently, the ductile design of beams, columns and shear-walls is performed as per relevant clauses in base EN code – BS EN 1998-1:2004(incorporating corrigendum July 2009).

RCDC CONNECT Edition

New

Project Details

Project

Client

Engineer

Design Code

Connect Information

Project ID

Project Name

Associated Project

General

Addition of American code ACI 318M-19

ACI 318M-19 (American Standard) is added in RCDC. With this addition, all the structural elements can now be designed using ACI 318M-19.



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General RCDC compatible with Windows 11

RCDC is compatible with all new Windows 11. RCDC may ask for a system restart/reboot after installation of latest version.

General Enhancements

Following are the Enhancements made in this release.

- **ADO ID – 676426 – Issue in identifying column type as Lateral if column is starting from plate element.**

In the earlier versions, RCDC was identifying column as floating column if it is starting from plate element. As it was identifying it as a floating column, it was not allowing user to define it as Lateral type for ductile design.

We are treating plate support as a fixed / pinned support, thus now onwards RCDC will allow to define these columns as Lateral in ductile design.

- **ADO ID – 745963 – RCDC should read the Load combinations created using other load combinations**

If any load combination is created using another load combination, RCDC was showing reading error. This issue is now handled in RCDC and we are reading the load combination even it is created using multiple other load combinations.



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General

Defects Resolved

Following are the list of Defects Resolved in this release.

- **ADO ID – 666388 – Crash if the parametric surface forces are zero from analysis file**
There was issue in generating design calculation report if forces available for parametric surfaces are zero in all load combinations. Now this case is handled, and design calculation reports are generated even if the forces are zero for parametric surfaces from analysis file.
- **ADO ID – 671436 – Tank wall and slab adding missing values in failure diagnostic report**
For design of tank wall and slab, some of the values were missing in failure diagnostic report for shear failure. Now, all required values are added in the report.
- **ADO ID – 758147 – Issue in auto design if parametric surface is added but not meshed in STAAD.**
The issue was occurring in design when user added the parametric surface in STAAD model but did not merge the plates. RCDC was getting Zero thickness and forces for that parametric surfaces. This issue has been resolved now. Design of all parametric surfaces will be completed without any error. Design of parametric surface without merge mesh is performed with nominal thickness and Zero forces.
- **ADO ID – 775680 – Zero forces in wall (parametric surfaces) for ACI English unit design**
Issue of rounding values while fetching forces from parametric surfaces in case if analysis file is created in English unit has been resolved. Now correct forces are fetched and used for the column and wall design.
- **ADO ID – 776610 – Slab design crash when provide High Imposed and Live load**
In slab design due to High imposed and live loads, there was some issue occurred in detailing if area of reinforcement is increased due to the shear check. Now the logic of increasing the Area of reinforcement to satisfy shear check has been improved. If the area of reinforcement is more than 1.5% due to high shear, RCDC will try for the higher depth instead of increasing more reinforcement.
- **ADO ID – 783164 – Issue in Auto Grouping of Lateral and Non-Ductile columns**
Issue of Auto grouping of Lateral and Non-ductile column in few cases has been resolved in this release. Now Correct Type of columns are shown in Auto grouping tool.