

Advance – Steel suite 5.1 / SP2



This document describes only the improvements in Service Pack 2 from Service Pack 1. The installation of SP2 includes SP1, see previous document for improvements in SP1.

Advance - Steel suite 5.1 is now ArchitecturalDesktop 2005 compliant with this Service Pack.

MODELLING

- The “Search Tool” now can find non-numerical part marks
- The user sections can now be created in imperial units and allow more inner contours.
- User errors are detected now during creation of user sections and user sections are not generated
- It is now possible to define correctly the weight in “Ton” for lists.
- It is now possible to use the ACAD object snap “Intersection” between two beams
- It is now possible to have a collision check between ACAD solids and Advance Steel objects
- Folded plate didn't work on polyline in certain case; this has been corrected
- Advance Steel Properties of a folded beam and a beam (both selected) are displayed correctly
- In certain cases the length calculation of beams (straight and curved) was wrong, this is corrected.
- Bolt length calculation was not correct in some models; this is corrected.
- Non concordance between bolt and hole tolerance has been corrected.



- Connections are no longer automatically deleted with the audit when using plates behind the bolts and plates are smaller than the bolt diameter.
- The special parts color, in a shaded model, does not change anymore when panning/zooming.

JOINTS AND STRUCTURAL ELEMENTS

- Railing: Better default values for the weld location
- Railing: It is now possible to choose the side for the long leg of an unequal angle
- Railing: Better default values for bolts
- Railing: Default values for bolt distance have been modified
- Railing: The top handrail can be now created out of flat profiles
- Railing: More Flats are available (FL50x5, FL50x20, ...)
- Railing: New check box to rotate the posts or the top handrail by 90 degree
- Railing: Possibility to have no middle hand rail (enter for the amount "0")
- Railing: Possibility to create a picket railing, by setting the middle hand rail to "1" and selecting a vertical filling
- Railing: AISC square profiles are available in the dialog boxes
- Railing: The distances between the middle handrails can now be defined between the axis or the free space
- Railing: It is possible to create railings on cold rolled profiles, e.g. Canam C.
- Railing: Elbow length corrected in a particular case
- Railing: Welds created by the new SE Railing have now location properties
- Railing: Railing connection welds work fine now
- Stair footing: It is possible to switch off the base plate by entering "0" in the plate thickness
- Stair: It is now possible to enter a negative value to move the top landing cover
- Stair: Additional offset for the top landing cover (plates and grate)
- The Joint "roof_conn" now creates correctly the big hole on the opposite face of the secondary beam(s)

DRAWINGS

- It is now possible to **copy or move a detail** from one drawing to another. You can do that by drag & drop in the document manager or directly in the drawings. Even when you move the details on the drawings it is recognized by the document manager.
- Move details inside Drawings now works fine with a "window selection"
- Explicit quantity for Main Parts (if forced on Behavior sheet) is correct for assembly drawings
- No more hatched holes in workshop drawings
- Correction of the problem of missing lines on isometric views
- Correction of the problem with not merged bevel views
- Detail drawings: Text in Rectangle gets no longer outside the rectangle



- Prototypes: Changing the prototypes is now possible even when the files are not in the "Shared" folder
- Prototypes: Changing the prototypes with "ACAD Mechanical" works now
- Prototypes: Changing the prototypes when various plotters are predefined
- Process: Better use of alternative scales in the processes
- Stability improvements with ACAD 2005
- Update doesn't move modified texts or dimensions on drawings
- The details are moved now in "Update required" category after modifying "Explicit Quantity"
- Audit command in detail works fine now
- Improvements for the label update in the document manager
- Preview of an updated detail works fine now
- A modified arc dimension are not moved far away after an update
- Improvement of the arc dimension for curved beams
- Improvements on presentation of green frames. The presentation of the green frames is now controlled by two new defaults as well as by a new icon (a switch) in the toolbar "Sub – Finishing"
- Green frames now appear correctly when the detail is in Imperial units
- Objects with the setting "OFF" are now deleted for a detail explode
- Speed improvement for deleting a drawing with list on it
- Speed improvement for snap points inside drawings
- Speed improvement for creation of views and elevations
- Speed improvement for deleting drawings out of the document manager
- Speed improvement for drawing creation when "Recoding" default is turned on
- Labels: Correction of the problem of Labels with "non-empty" content
- Labels: A particular case where a label added manually was not horizontal but sloped, has been corrected
- Labels : Texts in Rectangle is not anymore getting outside of the rectangle
- Improvement when the folder name for drawings having revision is given by the user.
- Moving a view in a detail drawing (with UK prototype) is corrected

Numbering

- Correction of some problems with part marks between drawings, lists and pieces by using the numbering method "With drawing number"

Lists

- The calculation of the weight of beam has been corrected. The list displays also the right value
- The template has been corrected to display a correct Total surface (if there are several elements)



NC and DXF Files

- Some smaller correction for plate and flat codes

MANAGEMENT TOOLS

- Folded plates are shown correctly in the part lists
- The default setting for "Plate justification" is correct now

IMPORT/EXPORT

- The SDNF import for curved beams has been improved
- SDNF Import/export improvement: Cutback is supported
- SDNF Import/export improvement: The problem with plate positioning has been fixed

UK Bonus

- Update of the tools for Measure, Divide & Trim so that they work also fine for curved beams.

MISCELANEOUS

- Some pictures in dialogs have been corrected with Windows XP as well as in ACAD 2005
- Pictures inside the new SE Railing have been updated according to the new options for the middle handrail and posts
- The look of the folded plate dialog box has been improved
- Seated beam connection dialog has been corrected
- The characteristics of the bolts created by Joint NewAngleBracing: bolts are now read from the defaults at the creation of the Joint.
- Dwg information inside the summary info
- Default C40_RasterTextHeight (height of text in drawings) works fine now
- Prompts for Project Data - "Building" and "Building Location" are now correctly translated for English International version
- SP installation doesn't erase anymore previous toolbar for UserDrawingStyles.