Advance Steel 2009 / SP1

This document describes the improvements in **Service Pack 1** for **Advance Steel 2009**.

MODELING

- The grating hatch remains along the grating object direction.
- The Advance copy command works correctly with imperial units when entering a value of 1/16 of an inch.
- Setting a large number of division points when creating a twisted plate works correctly.
- Merging plates or creating a plate from a polyline is not allowed if one of the plate side lengths is less than 1 mm.
- Setting a specific material for beams is saved after closing the dialog box.
- Moving objects from far to 0,0,0 coordinates works correctly.

JOINTS

- The “Splice” joint produces a correct result for inner flange plates when applying the joint on compound beams.
- “Gusset plate for 2 diagonals” joint:
  - It correctly creates the gusset with any orientation of the selected diagonal.
  - Some parameters that should not be grayed (when the option “Gusset plate parallel” is selected) are available.
- The “Bracing to column and plate” joint produces a correct result when applied to T-sections.
- “Bolting on gauge lines” joint:
  - It works correctly on angle beams.
  - It is coherent when setting the shortening size direction.
- The “Base plate” joint sets directly the bolt length specified in the database.
- “Shear plate” joint:
  - The horizontal bolt distance for "plate edge" layout is correct.
  - The bolts length is correctly calculated when connecting a U beam to an I beam.
  - All the possibilities for plate types produce a correct result.
- “Double side end plate” joint: values can be stored in the library.
- The “Pin-ended column” joint creates slotted holes if requested by the user.
- The “Saw cut – web” joint assigns the right weld thickness value to the created weld.
- “General punch mark” joint: creating punch marks at a distance is corrected.
- “Spiral staircase” macro:
  - Setting a row with the “Default” name in the library works correctly.
  - The inner end plate connection is correct in the case of an inner stringer.
- “Railing” macro: the “Plate with bolts” connection type used for a post connection has a correct offset to the plate in the case of a railing on sloped beams (e.g. stairs stringer).
- “Cladding” macro:
  - Area openings are correctly cutting the cladding profiles.
  - Changing the cladding orientation from “horizontal” to “vertical” produces a correct result.
- Trying to access the Joint properties several times could produce an error message; this has been solved.
- Giving the name “-“ to a line stored in library works correctly.

JOINT DESIGN

- "Gusset plate for 2 diagonals" joint: Joint Design according to EC3 calculates the minimum weld length.
- "Gable wall endplate" joint: Joint Design according to the AISC minimum bolt edge distance calculation is correct.
- "Haunch" joint: Joint Design according to EC3 works correctly when importing forces at nodes from the analysis software Advance Design using the GTC file format.

LISTS

- The export of a BOM to MS Excel produces a correct result with all Regional settings.
- Saving a BOM as an rdf file does not produce an error message.
- A BOM can be successfully registered to the model even if it is not present in the BOM sub-folder.
- A particular case when BOMs could not be created from the model has been solved.
- In the case where the BOM is created from a selection of the model, the updated BOM includes changed parts.
- "Date of construction" and "Date of order" information from the Project data dialog box can be used in BOMs.
- Bolt list reports correct length values for the nuts.
- Shear stud quantities are correct in BOMs.
- Any specific date format is displayed as requested in BOMs.
- The H-part is correct in DStV lists.

DETAILING

- Document Manager:
  - A particular case when the status checking was causing a crash has been solved.
  - If a detail is deleted from a multi-drawing, the Document Manager correctly checks the drawing status
  - There were instances where the updated drawing was not moved to the "Current" branch; this problem has been solved.
- Missing lines on assembly drawings have been corrected.
- Hole axes are correctly displayed on the workshop drawing of a folded plate.
- Better automatic placement of dimensions to avoid dimension overlapping in the case of the linear absolute representation of dimensions.
- Correct automatic dimensioning of the environment parts axis.
- Correct beam representation on workshop drawings for beams created from a polyline.
- Changing the view scale within a drawing does not affect the placement of sloped dimensions.
- Changing the view scale or rotating a view containing the unwrap representation of a tube works correctly.
- Adding a slope triangle dimension within a drawing produces a correct result.
- Adding a label to a folded profile within a drawing produces a correct result.

- Any prefix added afterwards for the numbering correctly appears in the workshop drawing bloc title.
- Views automatic placement has been improved on assembly drawings.
- Creating manually cut views within drawings works correctly in all situations.
- A particular case where adding a cut view manually within a drawing could double the cut view name has been solved.
- In some cases, the cut view symbols were placed far away after a drawing update; this has been corrected.
- Sometimes views could not be created on general arrangement drawings; this has been solved.
- AutoCAD entities can (if selected) be displayed on general arrangement drawings.
- Gratings are correctly shown on general arrangement drawings in all cases.
- If a folded plate is already detailed on a drawing, Advance Steel will not create a duplicated drawing containing the same folded plate.
- The workshop drawing creation of a folded plate could display an error message in some cases; this has been solved.
- Some cases when the drawing file name could become incorrect after an update of the drawing have been solved.
- “Update page header” works correctly with Project data information when the user saves the model and drawings with another name.
- The level value is correct when using a process for a camera.
- The grid is correctly displayed on drawings when there are grid extension user modifications.

DSTV-NC FILES

- Creating special parts DStV NC-files works correctly.

IMPORT / EXPORT

- A warning message appears when importing a file fails.

MISCELLANEOUS

- Changing bolt characteristics inside the bolt editor could cause a crash; this has been corrected.
- A problem displaying the bolt length configuration has been solved.
- The value setting for the DStV BOM editor is kept when saving it.
- Flat profiles are correctly listed in the beam dialog box in the French version of Advance Steel.
- A problem when merging the Advance Steel 8.1 profiles database containing user sections with the Advance Steel 2009 database has been corrected.
- A case when Quick connection was creating the same Joint twice at the same place has been solved.
- Some particular cases when the steel construction checking was giving a warning message for bolt distances while it was not necessary have been corrected.