

Advance Steel 8.1 / SP1



This document describes the improvements in **Service Pack 1** for **Advance Steel 8.1**.

MODELING

- Folded plate improvements:
 - Changing the relation bending angle and deleting a folding relationship could cause the program to close unexpectedly. This has been solved.
 - The bending axis is always correctly displayed when using the “Check unfolding” command.
 - A "Cannot apply the extension" message no longer appears when creating a folded relation between 2 complex folded plates.
 - The “Move” option of the Advance copy command correctly works for folded plates.
 - Weld preparations on copied-by-mirror folded plate remains correct.
 - It is possible to create a hole at the corner of a folded plate with its representation type set to “Unfolded”.
- Conical folded plate improvements:
 - Any plate justification creates a conical folded plate without any collision.
 - Conical folded plates can be created between a half-circle and a rectangle.
- Compound beam creation is much faster.
- Grid object snaps can be used with Windows Vista and Advance Steel 8.1 64-bit.
- “Behavior” tab correctly works with the Multi-edit command.
- South-African profiles: channels and CHS profiles added
- Shear studs: Additional Nelson studs added

JOINTS

- “Double side end plate” joint:
 - Improvement of the end plates width alignment in case of skewed secondary beams
 - Horizontal bolt distances to the plate edge are corrected for skewed secondary beams.
- “Tension Rods” macro: correction on the used special part
- “Element contour - rule” joint: it is now possible to set the options for “Corner cut” and “Corner size” and when the “Contour shape” is set to “Standard”.
- “Bracing to plate” joint: the weld connects the cap plate to the bracing diagonal.
- “Stair footing” joint: some minor adjustments have been done.
- “Gable wall end plate” joint: works on a curved main beam.
- “Stairs” macro: the user-defined tread type 22 and type 24 correctly work.
- “Railing” macro:
 - The Grab rail is correctly connected to the posts if “Loop” is selected as the connection type for the end of the handrail.
 - First and last posts are correctly cut if “Loop” is selected as the connection type for the end of the handrail.
- “Gusset plate, one, two and three diagonals” joints: new options are available for double gusset plates and shim plates between the gusset plate and the bracing.
- “HSS Bracing – with sandwich plates” joints create bolts which are “Site” by default.
- AISC Joint Design: a specific problem when the joint was flagged as “OK” while the checking had failed has been corrected.
- EC3 Joint Design: correctly works on Apex bolted with haunch made from profiles.
- Speed improvement for the joint dialog boxes on Windows Vista 64-bit
- “Cut at object” joint works on compound beams.
- “User attributes” and “Lot” properties given to parts created by a joint are kept if the joint is updated.

LISTS

- BOM on drawings: some drawings without a list inside due to an error get a list.
- BOM on drawings: works also for assembly drawing of a curved beam.
- It is now possible to create a drawing list that contains assemblies only.
- Beam lists can be created even if the model contains folded beams with a very small thickness.
- Sorting based on “Length” can be used.
- Lists saved in RDF format can be viewed in the Document Manager.
- Lists, exported as TXT files, correctly show special characters (e.g. é).
- The “MainAmount” token used in a customized BOM returns a correct result.
- Lists can be correctly exported to MS Excel with the Polish version.

DETAILING

- Folded plate unfold drawings do not display unnecessary lines.
- Folded beam: Countersunk holes are correctly displayed on an unfolded view.
- The compass symbol is shown (if specified) on overview drawings.
- Updating a drawing does not move manual weld symbols.
- Opening a drawing from a previous version (7.1) that contains many camera views can be opened in version 8.1 without a problem.
- Labels on cut views are linked to the correct object.
- Tension rod drawings: mapping (result: System Name – Diameter) is available for the title text and for the labels.
- A specific case where the view was not automatically created (due to the Necessary view settings) as expected has been solved.
- Automatic slope triangle for skewed attached plates is created correctly.
- Drawings can be deregistered and registered without a problem even for very big models.
- Endplate views do not overlap the main view on assembly drawings.
- Dialog box for label added manually correctly works with the Dutch version.
- The mapping from Plates to Flats has been enhanced for results on drawings.

DSTV-NC FILES

- NC-DXF Files improvements:
 - Additional tokens, for the signature in DXF files, are available.
 - Flat beams containing several openings get correct DXF files.

IMPORT/EXPORT

- PSS import and export: it works correctly for curved beam features.
- PSS Export: it is possible to control the type of PSS schema with a new default called "C0_PSSVersion".
- SDNF Import improvements:
 - Fillets on plates are correctly read when importing a SDNF file.
 - Flat profiles are supported.
 - The conversion mechanism for CISC W profiles has been corrected.
- PRF Export: it is possible to export a model to Steelfab.
- CIS/2 Import and export: the conversion mechanism for all North American (AISC & CISC) profiles has been corrected.
- IFC Export: the beam offset is transferred.

XREFS

- Modeling: folded plates can be modified when using the "Edit-Xref In-Place" command
- Drawing:
 - The "Label information manager" transfers the selected tokens from a model attached as Xrefs.
 - In case of a model placed far away from the WCS, the system lines of elements, coming from models attached as Xrefs, are not placed outside the objects.

OTHERS

- Converting the Advance Steel 7.1 Profile database to Advance Steel 8.1 gives a correct result.
- Speed problems when using Advance Steel with a license server have been solved.
- Advance Steel can be used in Demo version for 5 days after a first installation.
- Plates get a correct name in a 3D DWF file.
- Preferred sizes can be correctly set in the Management Tools with the Dutch version.
- Some Polish bolts have been corrected regarding naming and bolt length calculation.