

## Advance – Steel 6.1 / SP3

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This document describes the improvements in Service Pack 3 for Advance Steel 6.1.

**Advance – Steel 6.1 SP3 is now AutoCAD 2007 compliant.**

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Due to the fact that AutoCAD 2007 is UNICODE and this Service Pack is assuring the compliance with AutoCAD 2007, we had no possibility to assure a full transition to UNICODE convention in a Service Pack. This can only be done in a full installation setup and that's why there are cases when the installation of this Service Pack is highly NOT recommended, e.g. Chinese users with Chinese operating system should NOT install this Service Pack.

Nevertheless western European and English users should meet no problems in using this Service Pack.

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**The speed in Advance Steel is significantly improved starting with this Service Pack.**

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## **MODELING**

- Folded plate: The unfolded length is calculated according to the expansion calculations and the bending angle or the radius.
- Folded plate unwind shape is correct now.
- Copy tools: Improvements for copying/mirroring several joints at once.
- The command “\_astm4balancepoint“ calculates correctly the total weight for a compound beam in the separated representation .
- A specific problem in creating a cladding area from a polyline has been solved.
- The joints “\_AstM4CrConByRule 1 PS” and “\_AstM4CrConByRule 1 PS\_w” work now also for U profiles.
- Single side end plate: the joint works now when the secondary beam is rotated.
- Gusset plate – one diagonal: A new gusset plate shape – “two variable” – can be created.
- Gusset plate – one diagonal: The plate position is now correct for T-Profiles.
- Stiffeners: The joint creates the punch marks in the correct position.
- HSS bracing is aligned to the diagonal.
- Speed improvement for joint update.
- Joint Design has been implemented for the following joints:
  - HSS Bracing with sandwich plates
  - HSS Bracing with sandwich plates – additional objects
  - Single gusset plate, one diagonal
  - Double gusset plate, two diagonals
  - Clip Angle
  - Column Splice
  - Shear Plate
  - Single Side End Plate
  - Double Side End Plate

The design itself is done by **DESCON** (from Omnitech Associates according to LRFD or ASD standard).

- Speed improvement for erasing bolts from a model.
- Speed improvement for changing the material of all curved beams.

## **DETAILING**

- The system line is dimensioned only if it is requested by the drawing style.
- The Label Designer supports scripts longer than 255 characters.
- Label arrow is kept after exploding a drawing.
- Accessing detail properties and changing a scale are much faster now.
- Speed improvement for view creation.
- A problem with the mirrored beam orientation in details when a detail orientation is set to "Start point right side" has been corrected.



## **IMPORT/EXPORT**

- When importing STAAD files, Advance Steel recognizes the user-defined sections created in STAAD.
- CIS/2: The Model role is now used for import/export - analysis.
- KISS: Conversion files have been added and filled with parameter for North America.