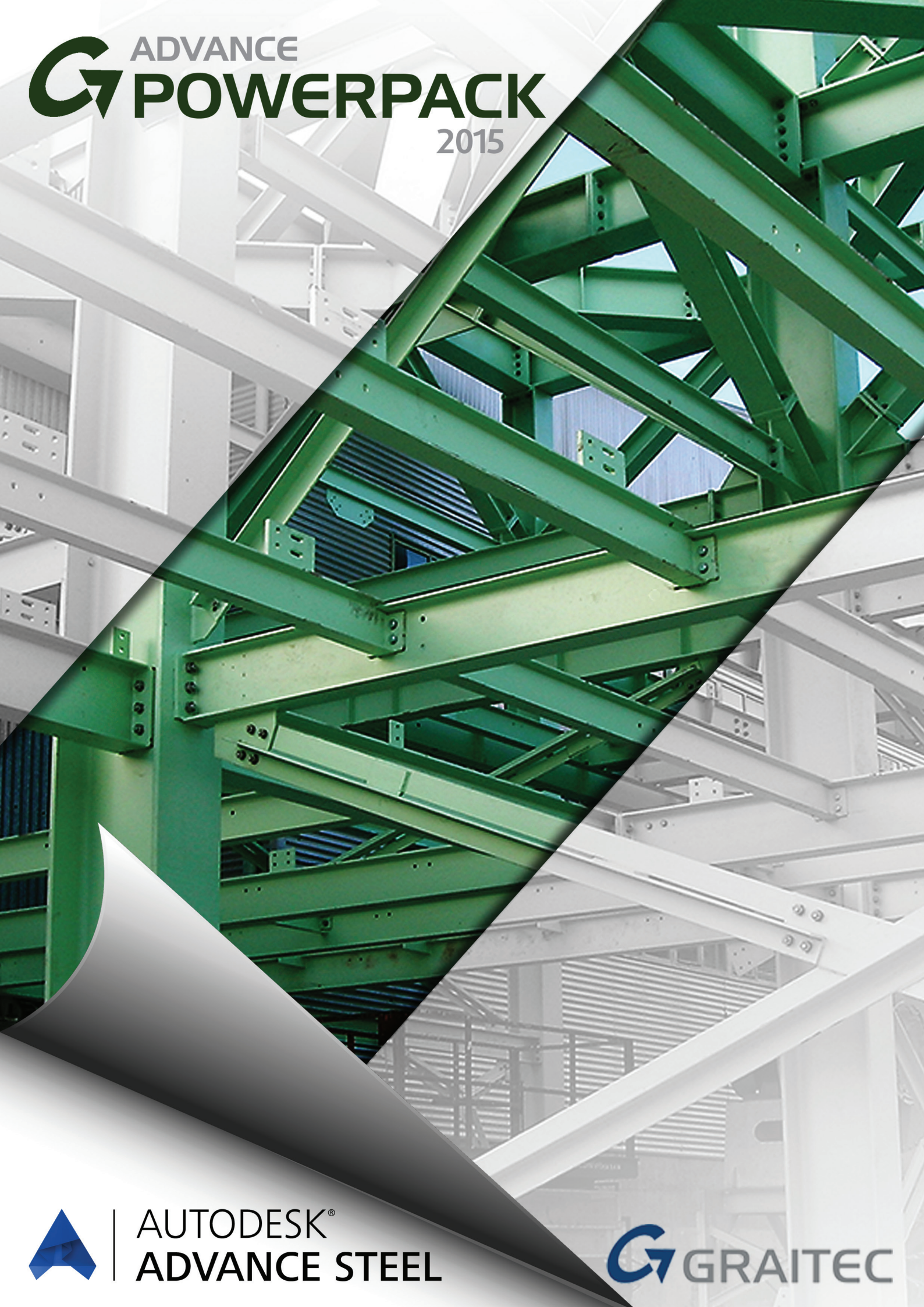
ADVANCE
POWERPACK
2015
AUTODESK®
ADVANCE STEEL
GRAITEC

ADVANCE POWERPACK 2015

GRAITEC PowerPack Ribbon

Commands

Commands are organized on categories in the Graitec PowerPack ribbon, with specific icons.

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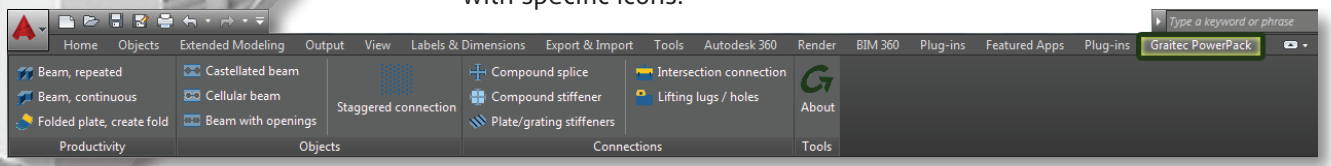
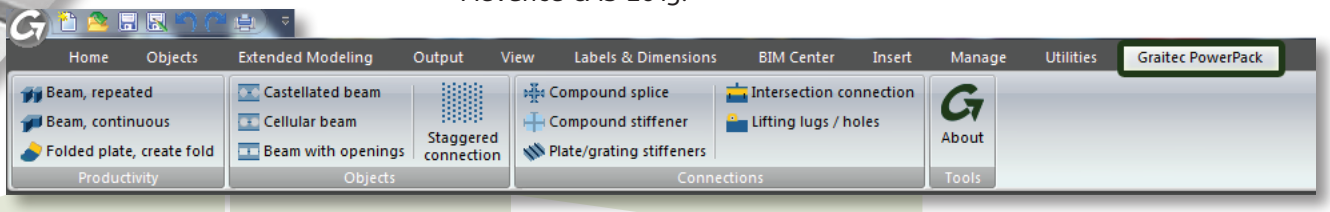


- Graitec PowerPack Ribbon on Autodesk Advance Steel 2015 with Advance CAD 2015:



Specific commands for fast modelling

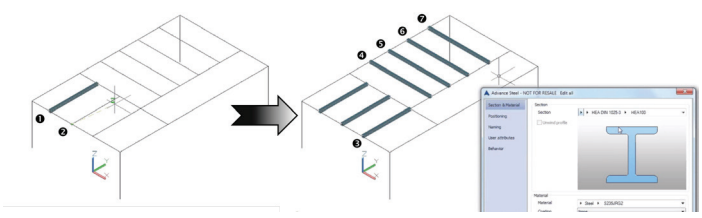
Commands used to create new elements

Commands used to create new elements

Useful commands for faster modelling - Productivity

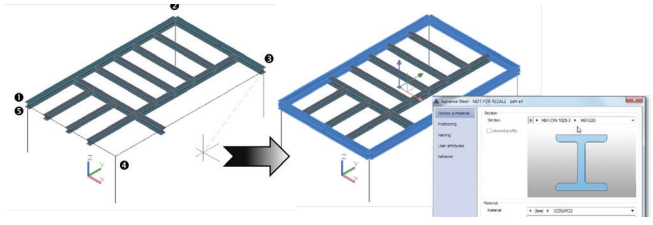
Beam, repeated

This fast and easy to use tool speeds up the model creation by allowing multiple beams to be drawn repeatedly without having to open or close the section dialog after every beam. Simply click return when you are done to manipulate all instances of the beams added simultaneously.



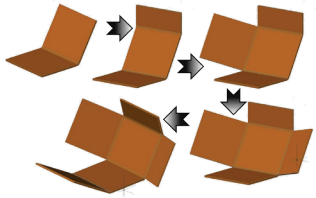
Beam, continuous

Similar to drawing Polyline, this tool behaves like Beam Repeat but enables the user to create a continuous section and in multiple directions. Either snap to existing points (such as a 2D plan) or just change mouse direction and type a length. Then when you are done hit Enter to modify the beams together.



Folded plate, create fold

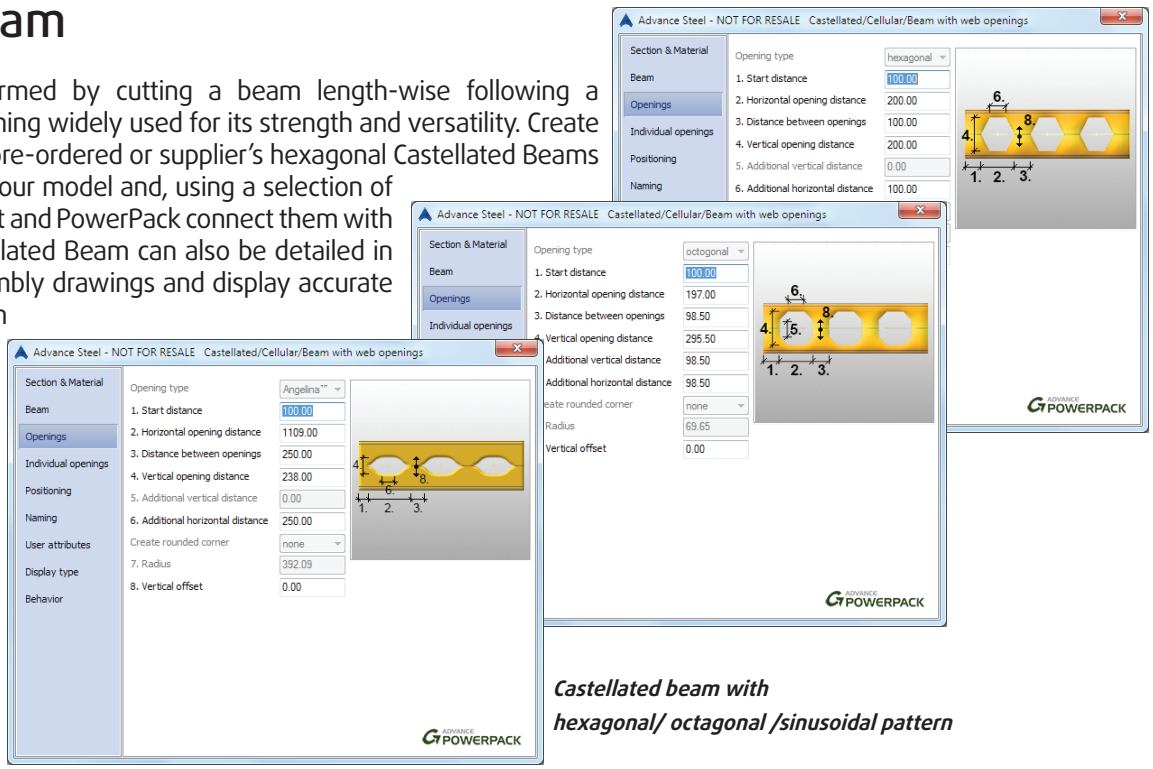
Quickly create multiple folds on an already folded plate with our Folded Plate Extender. By picking a plate edge this tool creates another folded plate on that edge with the same dimensions and settings of one selected, and then adjust the size using the object grips and fold dialog to change the angle.



Model Objects

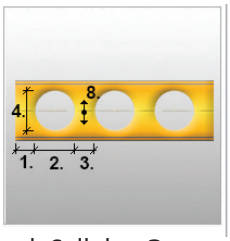
Castellated beam

The castellated beam, formed by cutting a beam length-wise following a hexagonal pattern is becoming widely used for its strength and versatility. Create a true representation of a pre-ordered or supplier's hexagonal Castellated Beams (such as ArcelorMittal) in your model and, using a selection of joints from Connection Vault and PowerPack connect them with other elements. The Castellated Beam can also be detailed in single part drawings, assembly drawings and display accurate length and weight on BOM's.



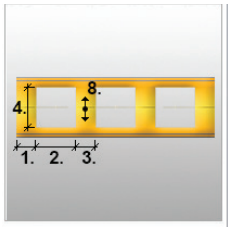
Castellated beam with hexagonal/ octagonal /sinusoidal pattern

Cellular beam



Similar to the Castellated Beam the Cellular Beam, formed by welding two halves of the same beam profiled with a circular pattern, offers unique benefits. This tool allows you to accurately model, detail and schedule standard Cellular Beams based on the height and opening dimensions available from suppliers catalogues, including ArcelorMittal profiles.

Beam with openings

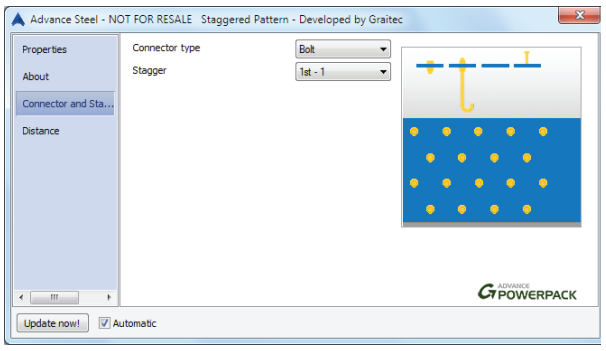


Ideal for accommodating a wide range of needs including Mechanical and Electrical services, this tool allows you to model a Beam with openings created from a welded I beam or standard section.

Simply insert the section and using the easy dialog place and adjust openings to suit your needs. As with the Castellated Beams the beam with openings can be detailed in single parts drawings and in assembly drawings, and accurately display length and weight on BOM lists.

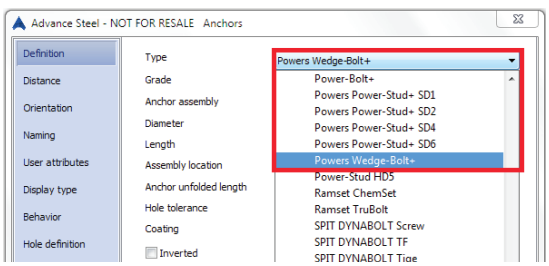
Staggered connection

This new feature has the ability to create staggered bolts/holes/ anchors/shear studs allowing the user to switch between bolts/ holes/anchors/shear studs without having to recreate a pattern with a different connection. Working with a single plate or on multiple elements the connection can be a straight pattern or based on 4 types of stagger which allow the user to manipulate and create a variety of pattern connection combinations.



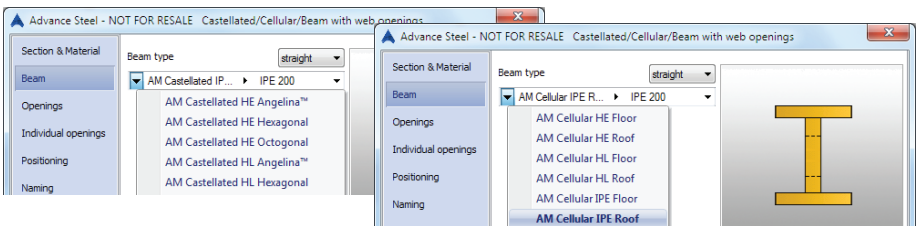
Library

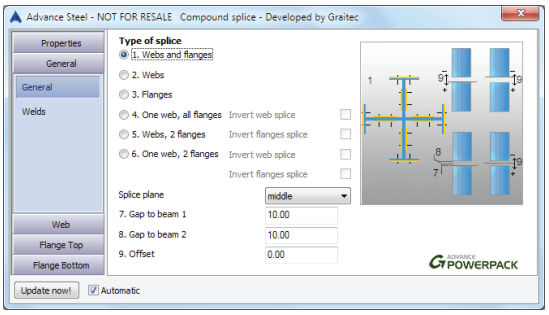
Powers Anchor



ArcelorMittal

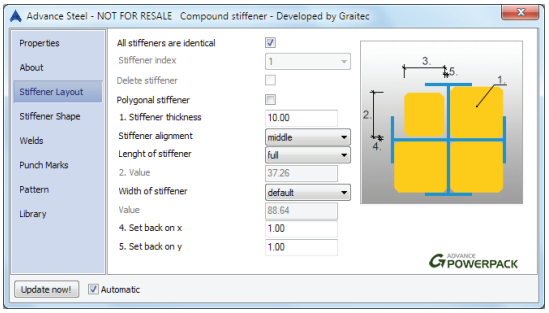
New profiles for Castellated beam & Cellular beam





Compound splice

This powerful connection works on welded beams (I + 2T section or I + T section) and was designed to connect 2 beams/columns using a variety of connection combinations. Chose from bolted or welded connection on all the flanges or webs, or combination of both, with a variety of default options to control hole patterns, plate sizes, welds and more to address many situations.



Compound stiffener

Adding and manipulating multiple stiffeners on a Compound Beam is a breeze with the new Compound Beam Stiffener joint. The connection works on welded compound beams (I + 2T section or I + T section) by adding single or multiple stiffeners for reinforcing the sections. The shapes and sizes of the Stiffeners are easily adjusted globally or singularly to accommodate weld reliefs, mitres, contours, etc according to the needs of the user.

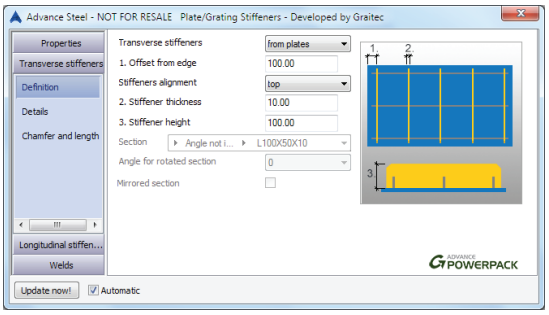
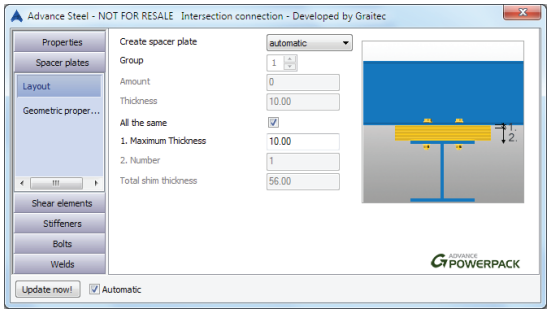


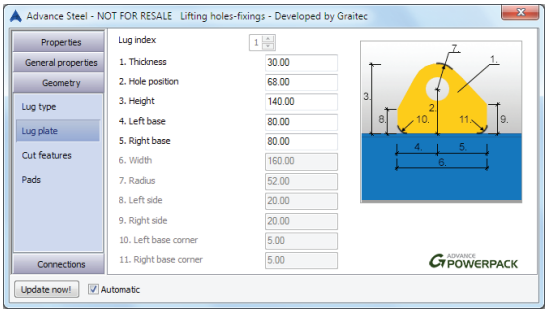
Plate / Grating stiffeners

Often plates or gratings used on platforms require stiffening. The “Plate/grating stiffeners” joint in PowerPack creates stiffeners from plates or sections arranged parallel with the selected edge or in various combinations. With options to arrange additional stiffeners perpendicular to the main direction, position the stiffeners above or below the plate, add chamfers to the edges, control the intersection conditions of the perpendicular stiffeners either dividing them between or adding a contour, and so much more, the Grid Stiffener makes it easy to get what you need fast.



Intersection connection

Many situations necessitate a beam or a plate to be connected at a point where they intersect above or below another member, usually requiring a gap between the two members to be filled by packer plates or a defined section. The Intersection Connection joint automatically calculates the thickness and number of plates (which can also be divided in either direction) or section size needed, which can also be stiffened. Both welded and bolted configurations are supported using round and or slotted holes.



Lifting lugs / holes

Safety regulations or simple good practice requires assemblies or large parts to be fabricated with additional reinforced lugs or holes in order to lift the element into the right position on site. The new Lifting Lug/Hole function available with the Graitec PowerPack automatically places holes or lugs according to the centre of gravity (COG) of linear parts or assemblies, or on large planar elements (plates) by indicating a lifting point and the lugs’/holes’ position. With options to control the contour and size of the holes, as well as control the shape and size of the Lifting Lug, adding reinforced pads around the hole, choosing from welded or bolted connections, or adjusting the placement position (top, bottom, left or right) the Lifting Lug/Hole function delivers fast results and is an essential tool to your Advance Steel modelling tool box.

ADVANCE POWERPACK

GRAITEC PowerPack 2015 is a powerful extension to Autodesk Advance Steel 2015 designed to boost the user's capability, productivity and efficiency. Graitec PowerPack 2015 builds on the strength of the market leading Autodesk Advance Steel by introducing a set of unique tools, templates and connections intentionally designed to enhance and speed up project delivery.

With **GRAITEC PowerPack 2015**, users will have access to a multitude of new tools and functionality specifically intended to give them a competitive advantage. With tools for faster modelling, such as continuous beam and folded plate extender, and new capability such as the castellated beam and cellular beam sections, combined with more intelligent and automated templates, all seamlessly integrated into a new user-friendly ribbon, compliments the use of Autodesk Advance Steel and enhances the user experience and project design workflow.

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global experience supporting local needs

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