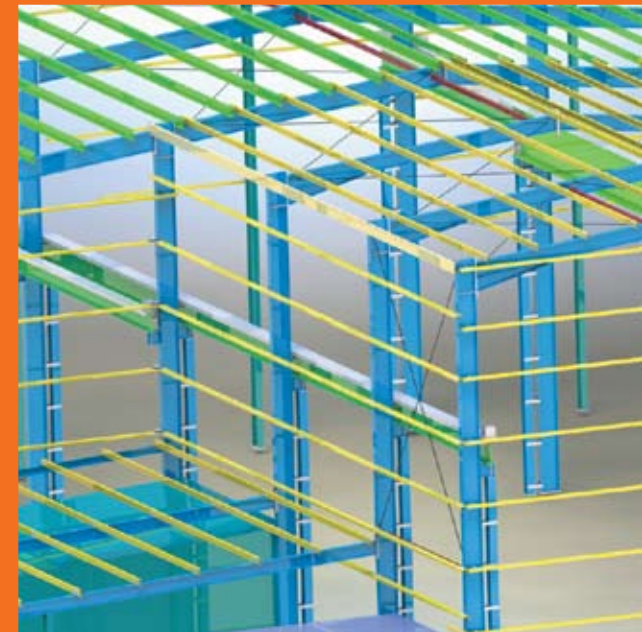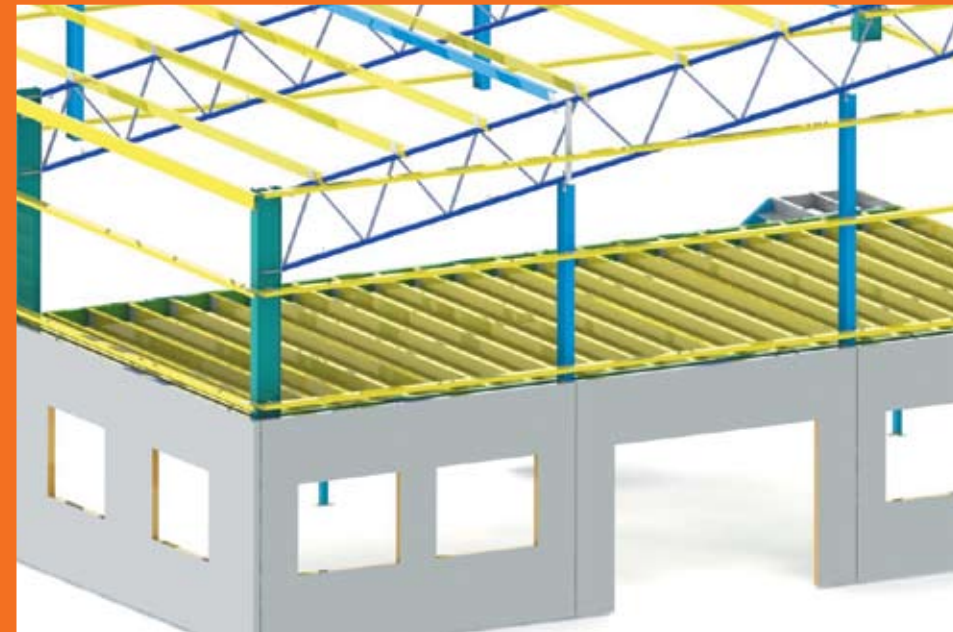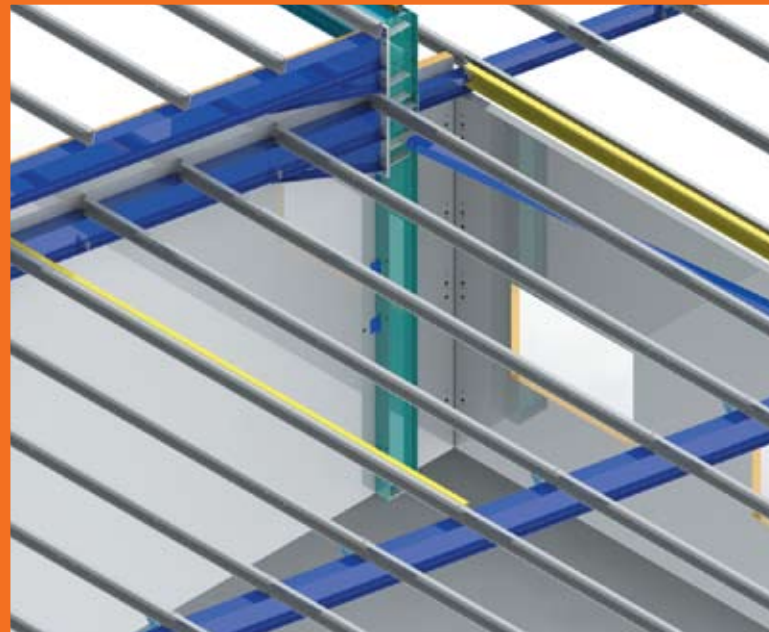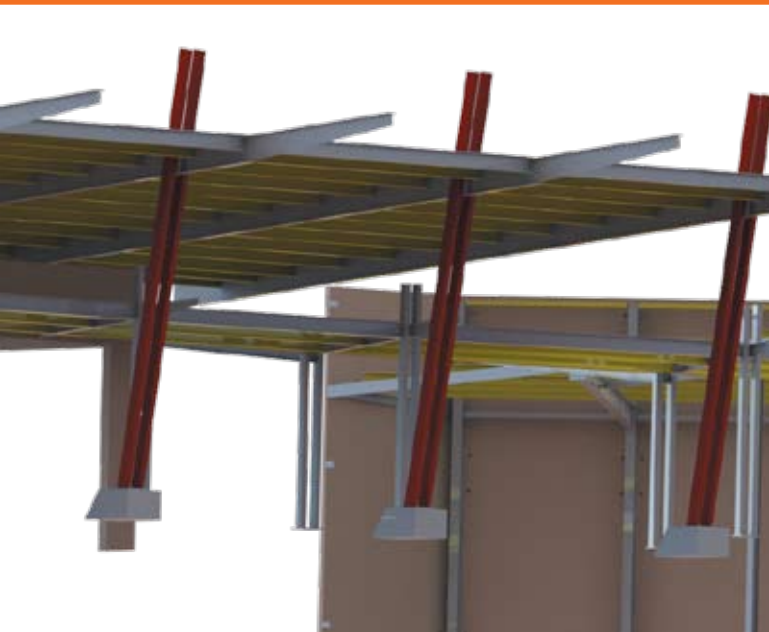# THE TSD ADVANTAGE

- Fully parametric
- Easy insertion of bolted connections
- Rapid, multiple insertion & sizing of assembly members along sketches
- Handrail panels
- Fully compliant stairs inserted on a single line
- Purlins & girts
- Automated drawings
- Auto mark numbering
- Auto BOM totals on all detail drawings
- SQL database reporting of bolt schedules, cut list, plate & flat bar lists
- Full drawing, part & project management

TSD THE STEEL DETAILER

quadro design

SOLIDWORKS®, MINING, INDUSTRIAL & COMMERCIAL SOLUTIONS

The Steel Detailer (TSD) partners with SolidWorks® to automate the creation of detailed structural models and fabrication drawings, reducing the time from concept to completion.
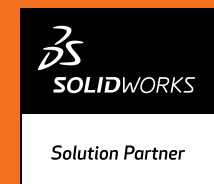
TSD

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DS SOLIDWORKS

Solution Partner

www.thesteeldetailer.com

Based on more than 20 years of experience in the construction & mining industry, The Steel Detailer (TSD) has been specifically designed to fit the needs of the structural detailing and construction industries.
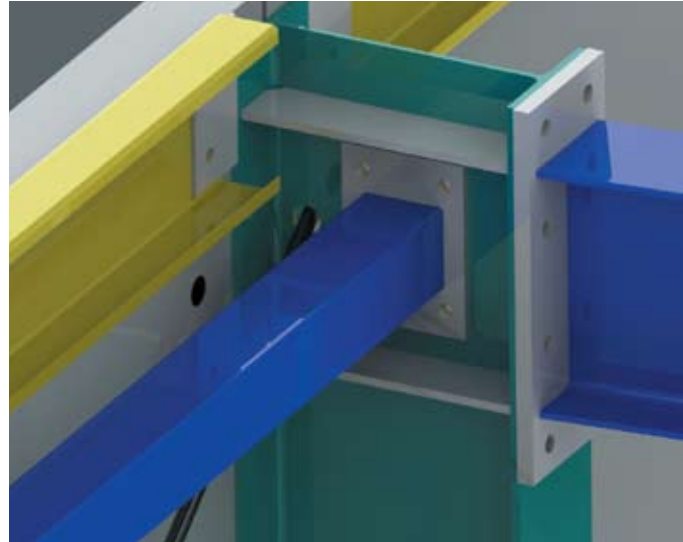
It follows industry approved documentation practices for detailing and mark-numbering, as well being able to interface with the engineers various design evaluation software packages for rapid & accurate design approval.

By combining 3D model management and automation, TSD certainly stands out from the pack.

MODEL & DRAWING LIBRARY MANAGEMENT

Models are stored inside The Steel Detailer's library alongside associated parts, assemblies and drawings and can be inserted together, renamed and referenced automatically into projects.

AUTOMATIC FILING

There is no need to worry about file naming your parts, assemblies and drawings when you own a licence of The Steel Detailer. TSD auto assigns numbers, based on your project set-up details, to all elements of the model, which are then carried through to the drawings.

This feature's importance quickly becomes evident, especially when assemblies in some mining and construction projects can contain tens of thousands of parts, if not hundreds of thousands of parts.

PICK & SHOOT

Insert a member on a sketch segment line and have automated relationships added to stretch the member along the sketch segment, or you can pick an entire sketch with multiple sketch elements that you want populated with the same member and watch it go …

Open the member's drawing and watch the drawing update the member's length and Bills of Materials (BOM) as it opens.

It's simply that easy ...

Some typical member examples are: beams, columns, concrete panels, hand rail panels, timber walls, brick walls, purlins, girts, rafters, stairs, trusses, conveyor modules, etc.

MULTIPLE INSERTION

Instead of picking each line segment, select the entire sketch and the member you want to insert and watch it populate every line segment (even around corners), assigning each with a unique drawing number and length to suit.

HANDRAIL INSERTION

Multiple insertion of handrail panels onto layout sketches. Each sketch segment determines the length of the handrail panel inserted, and equations within the handrail library model add or subtract stanchions to maintain stanchion centres within Australian standards (easily adjustable to suit local or client specific standards).
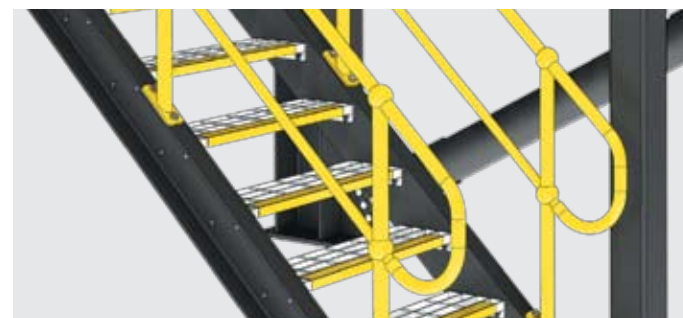
Each handrail panels' associated components & drawings are automatically added to the project, numbered, filed and their references (including equations) updated.

AUTOMATED STAIRS

Insert a stair from the library onto a sketch segment and have it automatically adjust treads and handrails based on Australian standards. There is no more need to calculate rise and run as this is completely automated. Again, its associated components and drawings are automatically added to the project, numbered, filed and their references (including equations) updated for each stair set you insert.

BOLTED CONNECTIONS

When inserting a connection from the Connections Library, its associated plates and plate drawings are automatically added to the project, numbered, filed and their references completely updated.

All like plates and members are grouped to a common drawing number and the total number for the project added to the drawing and Bills of Materials (BOM).

No more need to spend hours traversing your model to count all the holes to tally up the number of bolts required, or manually adding bolts to each hole to achieve this, as the bolt lists are reported directly from the database.

Easily add your own connections to your library or use the samples from the available library.

COPY & DUPLICATION

After inserting members from the library into a project they can be modified, using basic SolidWorks® modelling techniques, and copied as new members or duplicated as a second instance. Alternatively the member can be uploaded to the library for re-use over and over again. This means adding members to a project from the library or from within the same project is quick and simple.

AUTOMATED DRAWINGS

When a library member, section, or plate is modelled, a drawing is also created as a template. A simple upload to the library and you have a drawing template that automatically updates on insertion. With a few minor changes a large detailed drawing can be completed in a matter of minutes or even seconds.

PURLIN & GIRT DRAWING

As purlins and girts typically require a different style of drawing to suit the NC controlled punching process, TSD automates their production.

This fast, yet simple, process can save you hours or even days on a large project. The Steel Detailer selects the SolidWorks® girt, purlin, fascia or joist model and extracts the size, quantity, length and details of holes it contains, to produce automated punching drawings.

SQL DATABASE REPORTING

Since The Steel Detailer has a SQL backend, cut lists and bolt schedules can be created without having to open the complete model.

ANALYSIS SOFTWARE EXPORT

Create a first pass structural export to STAAD PRO®, SPACEGASS®, RISA 3D® or simply Excel®.

The Steel Detailer creates native files for STAAD PRO® and RISA 3D® from SolidWorks® Structures. Which means that NO 3rd party software formats are required – such as: CIS/2 or SDNF.

For SPACEGASS® the exported file is ready to be imported or merged straight into SPACEGASS® for analysis, with the added advantage of being able to import the modified SPACEGASS® file straight back into SolidWorks®/TSD for additional detailing.