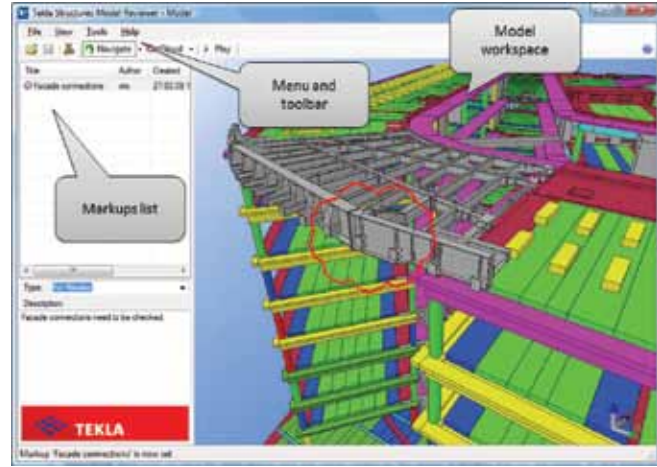


Tekla Structures Model Reviewer

Tekla Structures Model Reviewer user interface

Tekla Structures Model Reviewer is a new and improved tool based on the Tekla Structures Web Viewer.



Model Reviewer makes project communication more effective because you can easily send marked up Tekla models to other project participants. To learn more, watch this introductory video .

Tekla Structures Model Reviewer includes excellent model navigation and mark up functionality. With it you can:

- * Easily pan, rotate, zoom, and fly through the model
- * See important part information
- * Fly through a set of saved locations in the model to present it to the project team
- * Use clip planes to slice through walls and crowded areas of the model
- * Email models easily to other parties
- * Create and manage markups (redlines) of specific areas in the model
- * Visually track project statuses with different colors in the model

Download Tekla Structures Model Reviewer

To view a Tekla web model with the Model Reviewer:

- * Save the model file (.wmm, .xml, or .zsol file) to your computer, e.g. to the desktop
- * To install Tekla Structures Model Reviewer, click Free Download
- * Browse for the model file, select it, and click Open

NOTE: Once the Model Reviewer has been installed, you can always open it again from Windows Start Menu > Programs > Tekla Structures >

Tekla Structures Model Reviewer

For more information, see the online help.

If you have trouble with starting up this tool, check tool prerequisites in online help.

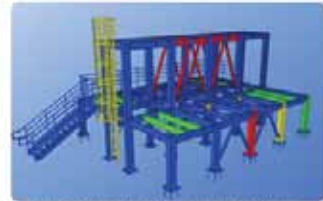
Do you have comments on this tool? Send us an email at: tekla.support@dowco.com

See examples of Tekla web models

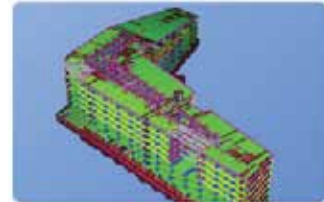
Some of the sample models shown below are available for viewing using the Model Reviewer



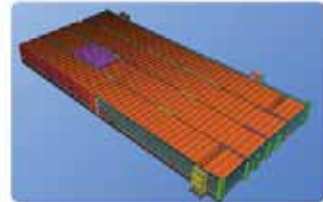
Example of change management – Using redline markings, colors, and tooltips to illustrate design changes in a 3D model



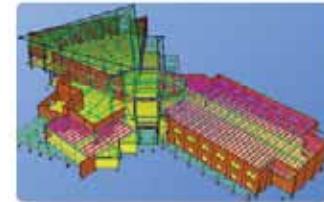
Example of engineer's approval markings – Approval stamp status in the 3D model, not just 2D drawings



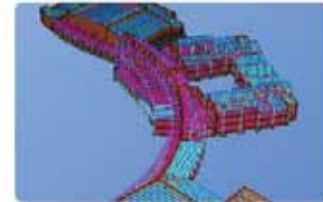
New Rambell headquarters in Ørestad, Denmark



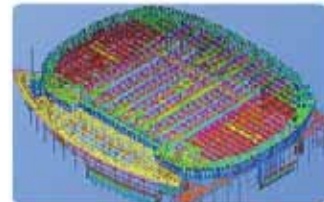
Strescon Limited: Hollywood Slots Casino Parking Garage, Bangor, Maine, United States



3Detailing L.L.C.: Fellowship Bible Church, Plano, Texas, United States



Structural Consultants, Inc.: Battle Mountain High School, Edwards, Colorado, United States



SEACAD: Intrust Bank Arena, Sedgewick County, Kansas, United States



SEACAD: Intrust Bank Arena, Sedgewick County, Kansas, United States - example of a work package



ConneXion



'Surviving and Thriving during a recession'

Ewen Dobbie, President

I think it's safe to say that last year we were all pretty happy and making money. Our industry was in the midst of arguably one of steel's greatest bull markets in decades.

Here we are a year later and most experts are saying that the market has fallen even further than predicted and suggest that the steel industry needs to prepare itself for a tough road ahead.

To help plan this path of recovery, even survival, we need to return to our roots and to the basic fundamentals of good business.

A quick search on Google for the phrase "recession proof" produces more than five million results. This tells us that obviously the blight of the economy has caused many to adopt a defensive position when it comes to their finances, careers, and life – I suppose - all for good reason.

Every day the media is plagued with news of layoffs, cutbacks and economic stress. Despite this doom and gloom, I believe we needn't follow the grim attitude of the masses.

It is an established truth that the economy fluctuates. Economists suggested these fluctuations move in cycles, or periods of rapid economic growth and periods of decline. Some believe that the recession is a necessary evil that is designed to "clean the 'fat' out of the system, mop up excess, and pave the way for the next expansion."

As painful as it is, a recession is a natural part of the economic cycle .

Of course, this knowledge doesn't ease the real-life difficulties facing us today.

(cont. p.3)



Tekla Structures BC User Day 2009

Arvin Eugenio

We want to express our sincerest appreciation to everyone who attended our BC User Day last May 1st, 2009. Special thanks to those who traveled

from as far as Nanaimo and Parksville and even St-Romuald, Quebec to join us for the day.

The event that was held at our new digs was a huge success. Tekla Structures users flocked to the 'whole day' event and took advantage of the valuable topics and information discussed during the day's sessions. I trust everyone also enjoyed the fellowship that followed after as much as we did.

For those of you who missed the event, video recordings of the sessions are available at our website – www.dowcotech.com/bc_ud2009. By popular demand, the presentations are also available for download at that page.

Lastly, we want to thank Tekla Inc particularly Mark Allphin, Steel Segment Manager for the US for graciously attending and speaking on behalf of our counterpart in the South.

It is always a pleasure meeting and hearing everyone's opinion and feedback on Tekla Structures and our services. Your continued participation and support truly inspires us to continue to be exceptional.



ConneXion - May 2009

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> Using Orientation Marks

Dave Berryman, Tekla Structures Technical Support



An orientation mark is a symbol (#32 in xsteel.sym) that appears on one end of a member in the GA drawing and also in the corresponding end of the main part in an Assembly drawing. These marks can be used to locate members in the field and assist the shop in placing the assembly mark at the correct end of the part. Before I continue with this article I must add that the preferred method for orienting a member that still remains is to use the Part Mark placed on the left end of the beam. Part Marks in Tekla Structures tend to adhere to the Starting end of the Member but manual checking must still be done.

Simply put: The ideal situation is to always have the Orientation Mark appear on the same end as the Start Point Handles for beams in a GA drawing. This cannot be guaranteed to always work out if the modeling has not been done according to strict methods. We will say you must still check the orientation manually to be sure. Certain mirrored items may not adhere to the rule as well. Nothing can beat manual inspection of course.

GOOD MODELING PRACTISE

The following is a suggestion for modeling practise that will improve the display of orientation marks for proper erection placement will accurately locate the parts in the field. The degree of accuracy surely depends on the adherence of the modeler to the rules stated below.

SETUP

Tools>Options>Orientation Marks

Use the default geographical settings of North=90 degrees (Compass Direction)

Orientation marks always appear in the West or South ends of beams regardless of the way they are modeled. Set also Preferred location for mark = Left.

MODELING PREFERENCES

1. Beams are to be modeled:

- from West to East (Left to Right) with the Start Point at the Westerly end.
- from South to North (bottom to Top) with the Start point at the Southerly end.

2. Skewed Beams in Plan View change the direction from West to South at 135 degrees and 225 degrees counter-clockwise from the +x axis in the plan view. This diagram can be used by the modeler to determine the correct Starting Point for skewed beams.

TEKLA HELP TOPICS FOR ORIENTATION MARKS

Orientation symbol

Setting up orientation marking (preferred location for mark)
Compass Direction

ASSEMBLY DRAWINGS

Assembly drawings should normally display the main part with the orientation mark on the left end of the main part. The View properties for the Assembly drawing should be set to "Local" (which is the default for all but channel drawings.)

To turn "ON" the orientation marks in assembly drawings you go to the drawing properties and select the PART button. There you will see a checkbox for the orientation mark.

When reviewing Assembly drawings always look for the orientation mark to be on the LEFT end in the shop drawing. In cases where this is not so you should go back to the model and swap the handles for that beam and re-number using automatic cloning.

TROUBLESHOOTING THE GA DRAWING

There is a macro available called StartPoint_checker.cs and StartPoint_Deleter.cs See C:\TeklaStructures\14.1\environments\usimpl\macros\drawings You can run this macro (listed below) against a GA drawing to see if the Start Ends coincide with the Orientation marks.

MACROS YOU CAN USE

1. In the modeling area there is a macro called Tools > Macros > Swap Handles This allows you to change the start point for a member. Renumbering is required if you use this

2. In the Drawings there is a macro called Tools > Macros > StartPoint_checker This places a recognizable symbol (symbol #21 in xsteel.sym) on the Starting end of each member in the GA and allows you to compare it with the Orientation Mark. They should be at the same end of the beam.

3. And also StartPoint_remove. After you have reviewed the entire GA drawing you can remove the Start Point symbols from the GA drawing.

CHANGING THE ORIENTATION MARK APPEARANCE

This mark is #32 in the xsteel.sym file. It is designed to be off center so the triangle inside the circle acts as a pointer. If you wanted to change the symbol and have a solid circle on centerline of beams in a GA then use symbol #17 and place this variable in the user.ini or in the Tools > Options > Advanced Options > Marking Parts.

For GA Drawings (in your Advanced Options)

XS_GA_NORTH_MARK_SYMBOL=17

(this is a heavy black circle that is centered on the beam symbol)

By default, the symbol for hidden North marks in general arrangement drawings is number 32 in the xsteel.sym symbol file. To change the symbol, set the variable to a different symbol number.

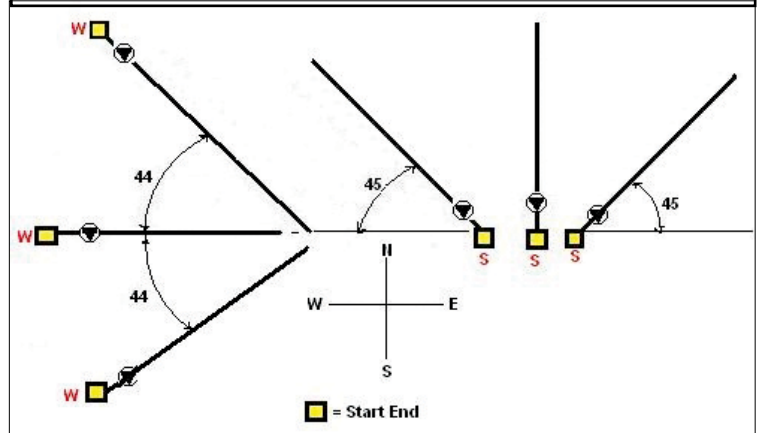
For Assembly Drawings (in your Advanced Options)

XS_NORTH_MARK_SYMBOL= 32

You can use #17 also if you want the symbols for Assembly Beams to be the same as you used in the GA. The default is #32 in xsteel.sym. You could also edit the actual symbol #32 but we do not recommend this. It is best to create the exact symbol you want and call it from the Advanced Options.

CHANGING THE ORIENTATION MARK COLOR

Sometimes you may want the Orientation mark to stand out in your drawing views. For example, your part color could be green and the orientation mark = red. To do this you must edit the color of #32 in the xsteel.sym file. Open the #32 symbol in the Symbol Editor and double-click each element in the symbol editing pane. A popup form will allow you to select a color for that portion of the orientation mark graphic.



Remember to Backup your data

Tom Knight

In today's world of electronic data exchange, the ability to safeguard your data could not be more important. As a user of TeklaStructures all your hard work is in the end just files: TeklaStructures models (.db1), NC files, electronic drawings such as PDF's or any other form of data extracted from the model. Add to this the integral part your model now represents in the BIM arena, your files are one of your most valuable assets and worthy of extra protection. No company can afford to lose files due to hardware failure, software issues, a virus or even user error. If you did, then you would not be able to deliver the project and thus not get paid. It is imperative that at least a daily backup of your files is performed. By backing up several times during a day on the most critical files, such as .db1, it is just extra insurance against the unexpected

and will help minimize the potential of lose data.

For backup methods and strategies please contact: TeklaSupport@Dowco.com

New in V15.0, Backing up your FleXnet license(s)

One of the several benefits of the FleXnet License system is the ability to back up your license(s) in case of damage to your license server. This was not possible with a plastic dongle key, if the key was gone or damaged there was no way to get it working again. With the latest TeklaStructures License Manager (V1.13) you can now make a "dummy" copy of your license(s). This is not a working copy of your license(s), but if any thing happened to your License Server that caused the license(s) to be lost, you could fix the issue by using the new repair tool on this "dummy" copy. This means you can avoid losing valuable time, something you could not do using dongle keys.

To make a backup copy of your FleXnet license(s), on the acting license server(s), navigate to C:\Documents and Settings\All Users\Application Data. Create a copy of the FleXnet folder and all the files within to some type of portable media such as CD, DVD etc. It is advisable to make a couple of copies of the FleXnet folder, keeping one in the office and another off site in case of a major catastrophe. Including this folder in your daily backup routine is also a good idea which just gives you a little extra insurance. Any time the configuration of your license(s) changes you must make fresh backup copies.

Note: If you cannot see the above folder structure, select "Show hidden files and folders" in the "Tools -> Folder options -> View"

To repair a license(s), with TeklaStructures License Manager (V1.13) installed, copy the saved FleXnet folder to the same folder location. When you launch the TeklaStructures License Administration Tool, it will detect the "dummy" copy and automatically start the repair process. Follow the on screen instructions and you will soon be up and working.

Tekla Structures and Fabtrol MRP – New Features and Important Notifications

Integration between Tekla Structures and FabTrol MRP New features and important notifications

Do you do detailing in Tekla Structures for fabricators using FabTrol MRP? Over the past year, FabTrol and Tekla have continued to work together to find ways to improve the interoperability of their products. In Spring 2009, Tekla released Version 15.0 of Tekla Structures and FabTrol is releasing Version 3.0 of FabTrol MRP. Included in the release of these new versions is a new format of the FabTrol/Tekla Structures reports.

Below is a list highlighting which options to use in Tekla Structures when exporting information to FabTrol MRP for the different stages of a project.

FabTrol MRP Estimate

Found in the "File>Export>MIS" menu in Tekla Structures

- KISS File export Version 1.0

FabTrol MRP Advance Bill of Material (ABM)

Found in the "Drawings & Reports>Create Report" menu in Tekla Structures

- FabTrol_ABM_List\v30.rpt

FabTrol MRP Detail Bill of Material (DBM)

Found in the "Drawings & Reports>Create Report" menu in Tekla Structures

- FabTrol_Assembly_BoltNutWasherStud_List\v30.rpt
- FabTrol_Assembly_BoltStud_List\v30.rpt
- FabTrol_Assembly_Parts_List\v30.rpt
- FabTrol_Drawing_List\v30.rpt
- FabTrol_Drawing_Revision_List\v30.rpt

Important Notifications

There are a few important things to know regarding the new Version 3.0 report templates.

- The older Version 1.6 reports are NOT supported in Tekla Structures Version 15.0 and newer
- The older Version 1.6 reports are still supported in FabTrol MRP Version 3.0
- The new Version 3.0 reports are supported in FabTrol MRP Version 3.0

It will be possible for the new Version 3.0 reports, exported from Tekla Structures Version 15.0, to be imported into an updated version of FabTrol MRP Version 2.0. The update will be available from FabTrol by the end of May.

The Version 3.0 reports can be copied into and run from earlier versions of Tekla Structures (potentially back to Version 11.0). However, the reports are officially released in Tekla Structures Version 15.0. KISS Version 1.0 files can still be generated from Tekla Structures and imported into FabTrol MRP.

