



**STRUMIS**

BRINGING  
STRUCTURE  
TO STEEL

## STRUMIS What's New Guide

# STRUMIS v10.1 What's New Guide

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## Foreword

STRUMIS v10.1 is packed with some exciting and long-awaited new features.

It sees the introduction of **Theoretical Offcut** nesting – providing Users with the ability to nest to available material on Cutting Plans that have yet to be cut. Similarly, the new **Edit Nest** functionality could save hours of re-work when needing to modify a plate Cutting Plan.

**Change Order Management** is a completely new module which will provide superior recording, tracking and costing of the inevitable job variations, and our new **Plate Girder** tools further extend STRUMIS' handling of built-up sections. Furthermore, enhancements to **Long Range Planning** will bring greater control over the fabrication scheduling process.

Purchasing departments will benefit from the User-specific **Purchase Order Authorisation** limits and **Contract Specific Pricing** library – whilst the evolution of **Revisions in Prelim Listing** will give transparency on the ever-changing material requirements in the early stages of a Contract, preventing unrequired material being ordered.

A number of small **Estimating enhancements** will make the day-to-day tasks of material take-offs, labour application and fittings that little bit easier and, finally, **BIMReview** has a whole bunch of new and improved features.

## Translations

The following are common translations between UK and US English which may be useful when reading this document.

UK English	US English
Mark Item	Piece Mark / Part
Mark	Assembly
Cast Reference	Heat Number
Generate Contract Work Orders (GCWOs)	Issue to Production
Offcut	Drop / Remnant
Preliminary Listing	ABM (Advanced bill of materials)
Detailed Listing	BOM (Detailed bill of materials)
Phase	Sequence

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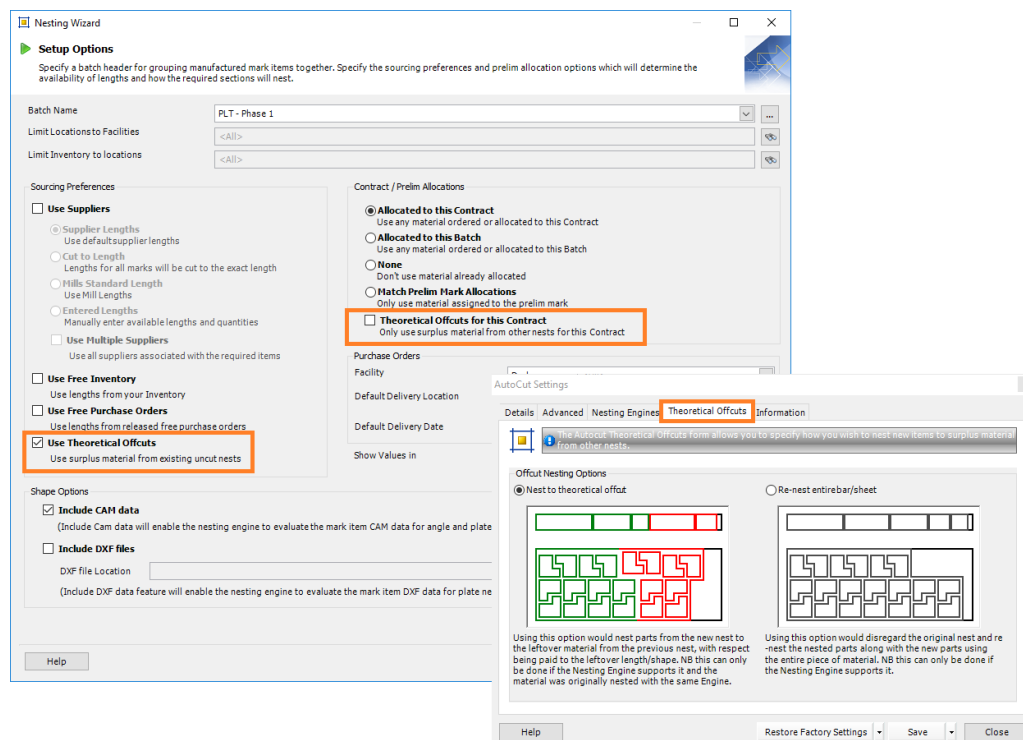
## Nesting

### New Features

#### Nesting to Theoretical Offcuts / Editing a Nest

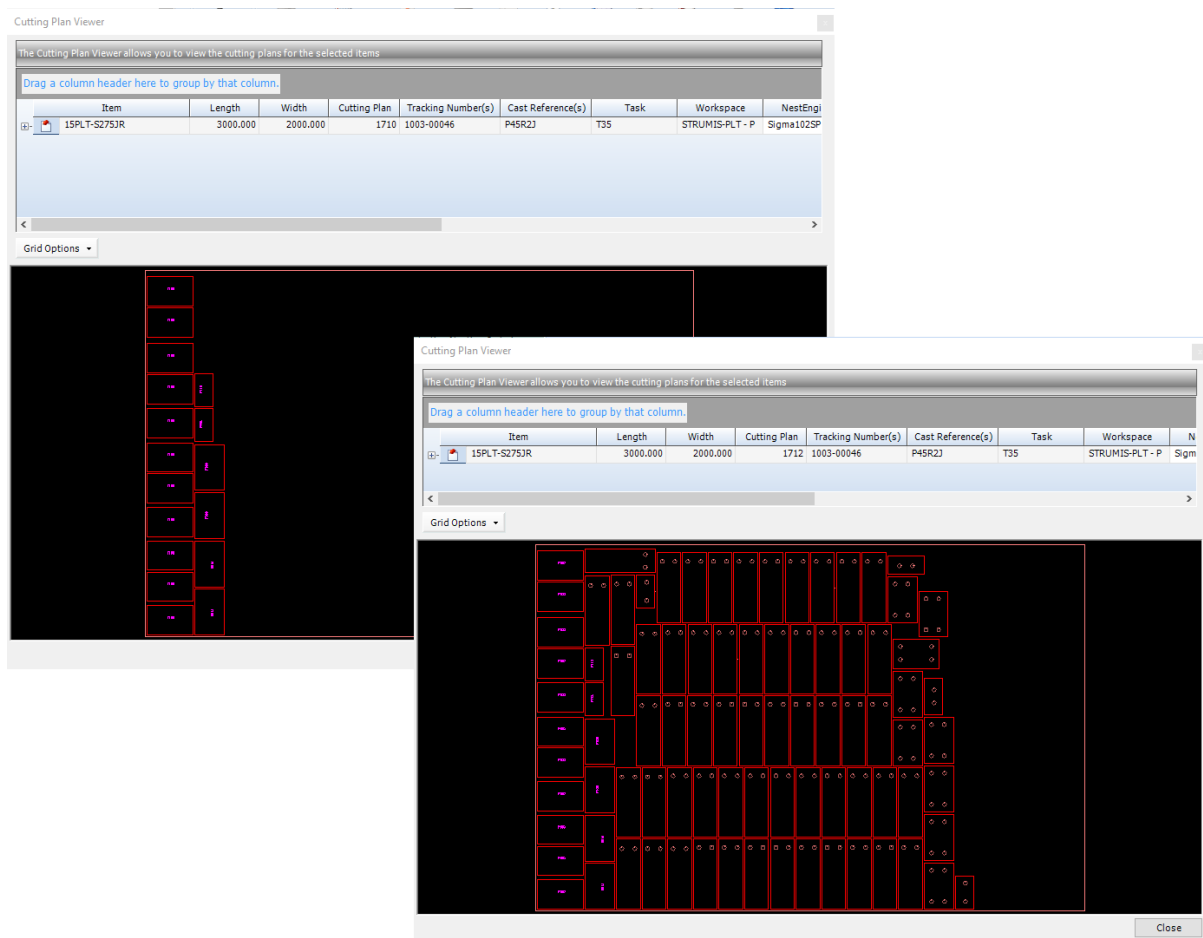
STRUMIS v10.1 now allows Users to nest additional Mark Items into “theoretical” offcuts.

Until now, once a bar / sheet had parts nested into it, it was not possible to utilise any offcut that was expected to be produced until AFTER the bar / sheet was marked as CUT and the offcut subsequently returned to Inventory. In order to do this, Users would need to completely un-nest the bar / sheet and re-nest the original and new Mark Items together.



A new option on the Nesting & Ordering wizard will enable the utilisation of theoretical offcuts to increase productivity and reduce material handling and usage. Users will be given the option to select whether they wish to re-nest the entire bar / sheet, or simply add additional components in the remainder of the bar / sheet, as not to disturb the original nesting pattern.

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Note: For non-linear Items, this functionality is currently only supported by SigmaNest. Please contact your representatives at the relevant plate nesting software vendors for their progress.

STRUMIS' own plate nesting tool will not support this functionality.

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## Removing Parts from a Nest

Further to nesting into theoretical offcuts, Users can remove individual Mark Items from an un-cut Cutting Plan without triggering a complete re-nest of the bar / sheet.

Particularly when plate nesting, significant time may be spent manually modifying the nest before committing to production. Prior to v10.1, removing a single Mark Item from such a nest would invoke the plate nesting software to perform a complete re-nest of the sheet. This is no longer the case.



This is managed by storing and recalling the plate nesting software Task and Workspace (as per SigmaNest terminology).

Note: For non-linear Items, this functionality is currently only supported by SigmaNest. Please contact your representatives at the relevant plate nesting software vendors for their progress.

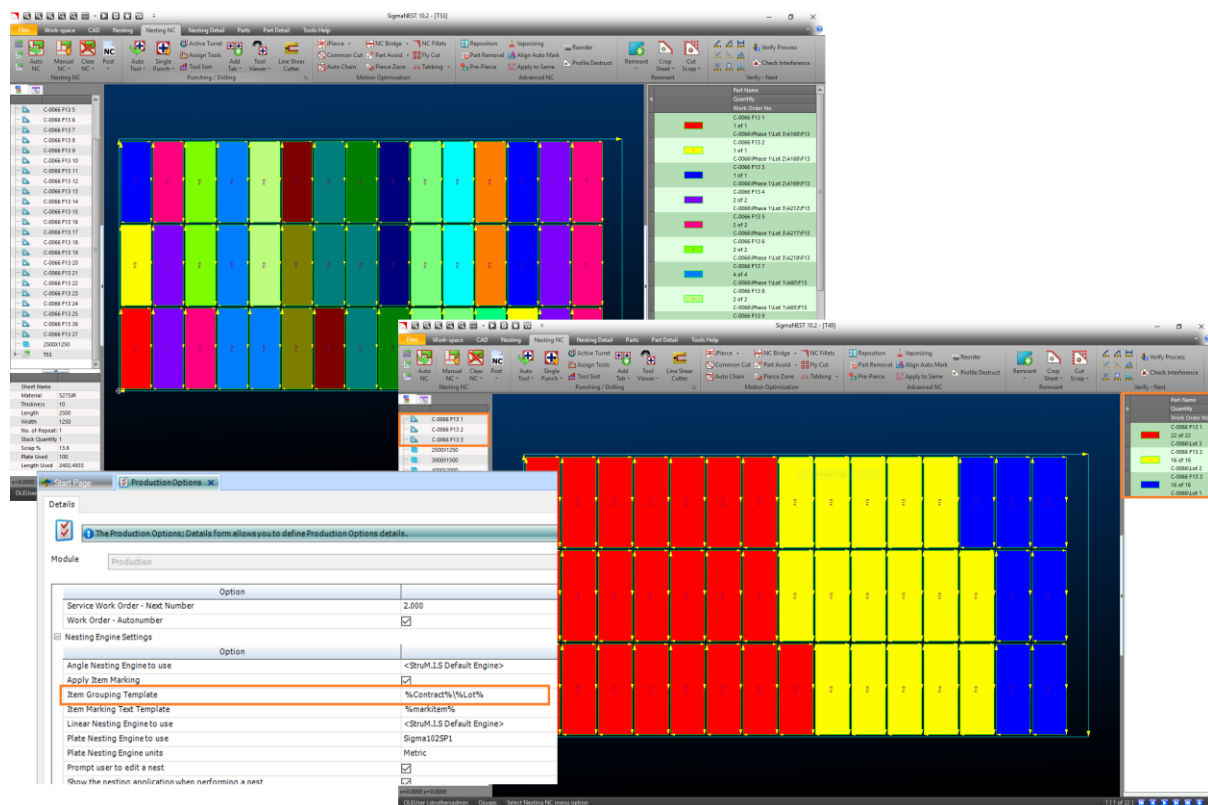
STRUMIS' own plate nesting tool will not support this functionality.

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## Plate Nesting Groupings

Traditionally Mark Items sent to 3<sup>rd</sup> party plate nesting software are only grouped at Contract\Phase\Lot\Mark level – meaning that if a User wishes to modify the settings or parameters of a part before nesting, they may have to do this a multitude of times for the same part.

The new Production Option “Item Grouping Template” allows the User to specify how parts are grouped when being passed to the plate nesting engines. The example below shows how 55 identical Marks Items (F13) belonging to numerous Marks across three Lots would traditionally be passed to SigmaNest, and then how the same 55 parts would appear with the new setting set to %Contract%\%Lot%.



## FIFO / LIFO Options for Inventory Allocation

A new set of options allow Users to specify whether STRUMIS allocates the oldest or newest inventory during the nesting process.

A new Inventory tab on the Autocut Settings form provide the ability to select:

- No Preference – the first available bar/sheet will be allocated, as it currently does today.
- First In First Out (FIFO) – the oldest Inventory will be allocated first.
- Last In First Out (LIFO) – the newest Inventory will be allocated first.

For all options, material allocated to the Contract will be used in preference to material with no allocation. For non-linear material, no preference will be applied when a shaped sheet has been utilised.



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## Minor Enhancements & Bug Fixes

- Additional columns added to the Nesting & Ordering grids; Cutting Plan(s), Batch, Workspace and Task.
- The error “The quantity ordered and allocated for a Mark Item cannot exceed the Mark Item quantity” no longer occurs when using the Match Prelim Mark Allocations option.
- Batch and Cutting Plan(s) columns added to the All and Covered tabs in Nesting & Ordering. (G5AE375278)
- To support theoretical offcuts, Full Area, Full Length, Full Width, Full Weight, Nesting Engine Used, View Cutting Plan and View Full Shape, Task and Workspace columns added to the Lengths / Quantities Available grid on the Nesting & Ordering wizard.
- Error “Column ‘CurrencyID’ does not belong to table ItemSource” no longer occurs when batch updating Suppliers and Lengths on a saved nest. (G75F256259)
- STRUMIS plate nesting engine giving error “Sequence contains no elements” when NC files contain certain line types. (F0070038, G9MI441966)
- Issue resolved with saved nests not retaining the Facility, Delivery Location and Delivery Date specified in the original nest. (GAWF131795)
- Filter columns functionality has been added to the Contract Batch form, and when closing the form, the Batch field will be populated with the selected row.
- Up and Down arrow icons have been added to the Manual Nesting form to allow the User to modify the order Mark Items are nested. This is only applicable to linear Items.

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## Contracts Management

### New Features

#### Change Order Management

A new register for logging, tracking and managing Change Orders on a Contract has been added into STRUMIS v10.1.

When a variation is detected, Users can now log a Change Order, record its impact on the various aspects of the Contract and track the status through notifying the Client, submitting to pricing and eventual approval / decline.

The anticipated cost of the Change Order can be calculated via a simple cost breakdown or linked to a STRUMIS Estimate for a fully-granular take-off.

Furthermore, once Change Orders have been approved by the Client, these can be linked to a Client Change Order to maintain full transparency on the total Contract value.

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## Prelim Listing Revisions

The Prelim Listing Import wizard now performs revision control. It will check for changes in a Prelim Mark's quantity, item, length and width and advise whether or not these changes can be automatically made based on its current status. If a Prelim Mark with a pending revision has already been nested, the Nesting Rollback wizard will be initiated so the Prelim Mark can be un-nested to allow the change to take place.

## Plate Girder / Built-Up Section Enhancements

Numerous enhancements have been added to improve the management of plate girders and built up Sections.

## Additional Mark Item Properties

It is now possible to import additional Mark Item properties for:

- Top Flange Width / Thickness / Grade / Weld
- Bottom Flange Width / Thickness / Grade / Weld
- Web Height / Thickness / Grade
- Gross Length
- Cambering
- Radius

These can all be mapped on the **Extended Properties** tab on the Cad Interface.

The screenshot displays the 'CAD Interface' window with the 'Extended Properties' tab selected. The 'Extended Mappings' section is highlighted with an orange border, showing a grid for mapping properties like Top Flange Start Angle, Bottom Flange Start Angle, Web Start Angle, etc., to specific columns. Below this, the 'General Options' section includes checkboxes for 'Ignore Cold Rolled', 'Use CAD Weight', 'Use CAD Area', and 'Revise Mark, Phase and Lot Quantity Changes'. The 'Estimating Options' section has a dropdown for 'Fittings Mode' and a 'Map Custom Fields' button. The 'Detailed Listing Options' section includes a dropdown for 'Assembly Creation'. At the bottom, there is a table with columns labeled Column34 through Column47, containing numerical and text data for various Mark items. The bottom of the window features buttons for 'Save As New', 'Delete', 'New', 'Save', and 'Close'.

	Column34	Column35	Column36	Column37	Column38	Column39	Column40	Column41	Column42	Column43	Column44	Column45	Column46	Column47
PG310/6	8791.5266138126	0	300	24	S355J0		300	24	S355J0		472	14		
PG710/1	8815	0	0	0	S460M		0	0	S460M		0	0		
PG710/2	8790	0	0	0	S460M		0	0	S460M		0	0		
PG710/3	8790	0	0	0	S460M		0	0	S460M		0	0		
PG710/71	8856.7987477594	0	310	15	S355JR		320	20	S355JR		485	16		
PG710/43	16151.296657091	0	800	60	S355J2		800	60	S355J2		400	45		
PG710/33	16292.226825202	0	340	20	S355JR		580	35	S355J0		465	12		
PG710/65	16773.181152345	0	280	14	S355JR		460	21	S355JR		485	10		
PG710/63	16773.181152345	0	280	14	S355JR		460	21	S355JR		485	10		
PG710/61	16773.181152345	0	280	14	S355JR		460	21	S355JR		485	10		

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In order for STRUMIS to correctly identify and parse the additional fields, they need to be named as such within the BIMReview model:

STRUMIS NAME	BIMREVIEW NAME	TYPE	NOTES
Top Flange Width	TF_WIDTH	Decimal	Tekla UDA / report field
Top Flange Thickness	TF_THICKNESS	Decimal	Tekla UDA / report field
Top Flange Grade	TF_GRADE	String	Tekla UDA / report field
Top Flange Weld	TF_WELD	String	Tekla UDA / report field
Bottom Flange Width	BF_WIDTH	Decimal	Tekla UDA / report field
Bottom Flange Thickness	BF_THICKNESS	Decimal	Tekla UDA / report field
Bottom Flange Grade	BF_GRADE	String	Tekla UDA / report field
Bottom Flange Weld	BF_WELD	String	Tekla UDA / report field
Web Height	WEB_HEIGHT	Decimal	Tekla UDA / report field. Note this is different to "Height" which is a standard Tekla field
Web Thickness	WEB_THICKNESS	Decimal	Tekla UDA / report field
Web Grade	WEB_GRADE	String	Tekla UDA / report field Alternatively will use normal grade (Column5)
Cambering	CAMBERING	Decimal	Standard Tekla field
Radius	RADIUS	Decimal	Standard Tekla field
Gross Length	GROSS LENGTH	Decimal	Standard Tekla field

## New Mark Item View tab in Detailed Listing

An additional **Mark Item View** grid has been added to the Detailed Listing screen. This allows Users to view the material listing for the Contract in a "flat" view, and utilise grid options to customise the screen.

Mark	Mark Item	Quantity	Item	Length	Width	Weight (T)	Area (m²)	Paint Finish	Prelim Mark	Phase	Lot	Bundle
A1	B01	1.000	35PLT-S275JR	450.000	450.000	0.056	0.405			Phase 1	Lot 1	
A1	F65	1.000	10PLT-S275JR	250.000	250.000	0.005	0.125			Phase 1	Lot 1	
A1	S2	1.000	203X203X71UC-S275JR	10695.000	0.000	0.759	13.045			Phase 1	Lot 1	
A2	B01	1.000	35PLT-S275JR	450.000	450.000	0.056	0.405			Phase 1	Lot 1	
A2	F65	1.000	10PLT-S275JR	250.000	250.000	0.005	0.125			Phase 1	Lot 1	
A2	S2	1.000	203X203X71UC-S275JR	10695.000	0.000	0.759	13.045			Phase 1	Lot 1	
A6	B01	1.000	35PLT-S275JR	450.000	450.000	0.056	0.405			Phase 1	Lot 1	
A6	F100	3.000	15PLT-S275JR	250.000	160.000	0.014	0.240			Phase 1	Lot 1	
A6	F97	10.000	10PLT-S275JR	248.100	130.000	0.025	0.645			Phase 1	Lot 1	
A6	M8	3.000	RHS150X100X6.3-S355J2H	274.100	0.000	0.019	0.398			Phase 1	Lot 1	
A6	S5	1.000	203X203X71UC-S355JR	12455.000	0.000	0.884	15.191			Phase 1	Lot 1	
A7	B01	1.000	35PLT-S275JR	450.000	450.000	0.056	0.405			Phase 1	Lot 1	
A7	F100	3.000	15PLT-S275JR	250.000	160.000	0.014	0.240			Phase 1	Lot 1	
A7	F112	1.000	15PLT-S275JR	180.000	100.000	0.002	0.036			Phase 1	Lot 1	
A7	F65	1.000	10PLT-S275JR	250.000	250.000	0.005	0.125			Phase 1	Lot 1	
A7	F8	3.000	10PLT-S275JR	237.900	180.000	0.010	0.257			Phase 1	Lot 1	
A7	M12	3.000	RHS150X100X6.3-S355J2H	257.800	0.000	0.018	0.374			Phase 1	Lot 1	
A7	S3	1.000	203X203X71UC-S275JR	10695.000	0.000	0.759	13.045			Phase 1	Lot 1	

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## *Combine Mark Items tool*

From the **Mark Item View** grid in Detailed Listing, you can now select to **Combine Mark Items** together. The purpose of this is to join smaller plater girder / built-up sections together in order to fabricate one long section, and then cut this down into the smaller Mark Item lengths.

It will only be possible to combine Mark Items together if they share the same Item, Top Flange Grade, Top Flange Weld, Bottom Flange Grade and Bottom Flange Weld properties.

Combine Mark Items

The Combine Mark Item form allows you to combine Mark Items of the same properties to create new longer Mark Item(s).

Item	Top Flange Grade	Bottom Flange Grade	Top Flange Weld	Bottom Flange Weld
PGB365X25X25X45X45X30-	S355J0	S355J0		
PGB380X250X250X20X10-	S355JR	S355JR		
PGB380X250X250X60X45-	S355J2	S355J2		
PGB450X200X200X50X25-	S355J2	S355J2		
PGB450X300X300X50X25-	S355J2	S355J2		

Add Bar

Name	Item	Total Length
PG120067_PG120069_PG12	PGB380X250X250X60X45-S355J0	6682.910
	PGB380X250X250X60X45-S355J0	0.000

Grid Options

Mark	Mark Item	Item	Quantity	Length
PG120068	PG120068	PGB380X250X250X60X45-S355J0	1	2337.470
PG120066	PG120066	PGB380X250X250X60X45-S355J0	1	2346.720
PG120072	PG120072	PGB380X250X250X60X45-S355J0	1	2782.570

Grid Options

Mark	Mark Item	Item	Quantity	Length	Total Length
PG120069	PG120069	PGB380X250X250X60X45-S355J0	1	2172.720	2172.720
PG120071	PG120071	PGB380X250X250X60X45-S355J0	1	2172.720	2172.720
PG120067	PG120067	PGB380X250X250X60X45-S355J0	1	2337.470	2337.470

Grid Options

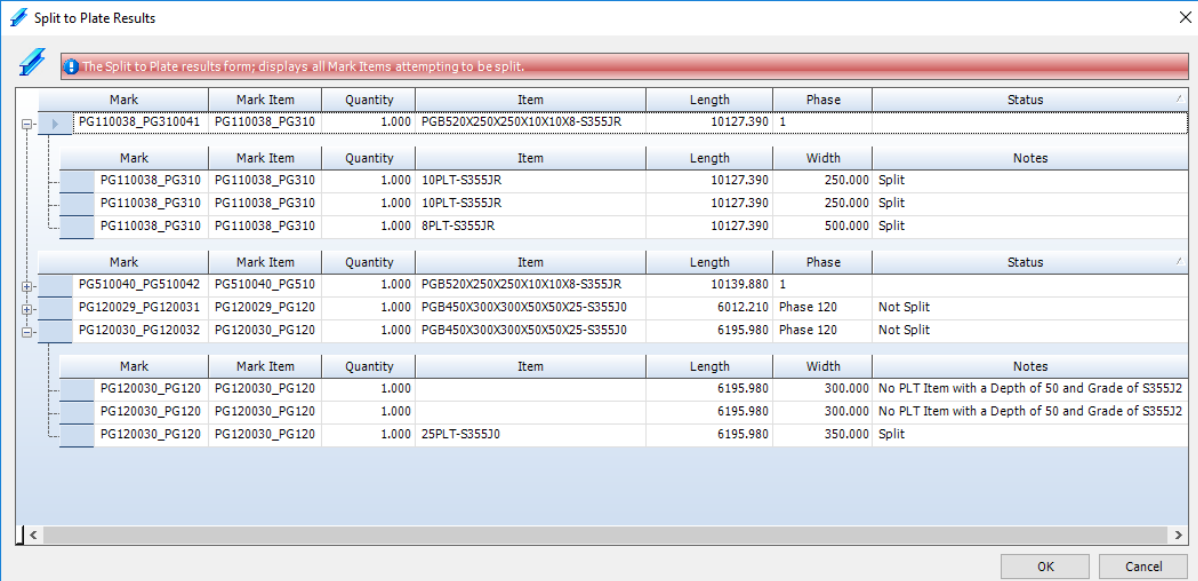
OK Cancel

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## *Split to Plate tool*

To compliment the **Combine Mark Items** tool, Users can make a selection of Mark Items, including “Combined” Mark Items, and choose to **Split to Plate**. This feature will mimic the CAM Splitter tool, but instead of using a CAM/NC file to split a Mark Item into its plate components (ie. top and bottom flanges and web(s)), it will use the additional Mark Item properties imported (as detailed above).

This will attempt to match the plate size to each component, but if it cannot find the corresponding plate thickness the User will be able to override the size used.



**Split to Plate Results**

The Split to Plate results form; displays all Mark Items attempting to be split.

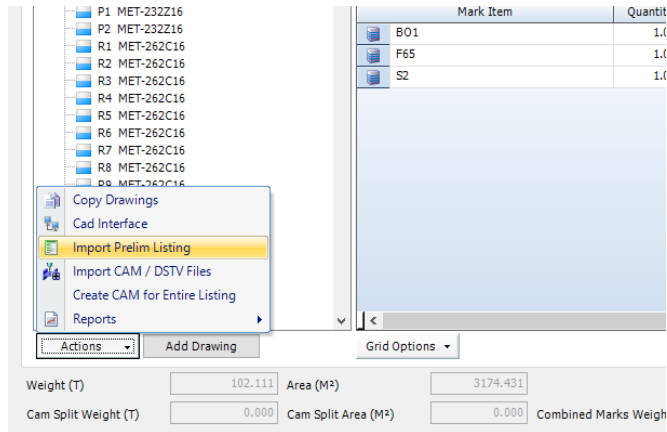
Mark	Mark Item	Quantity	Item	Length	Phase	Status
PG110038_PG310041	PG110038_PG310	1.000	PGB520X250X250X10X10X8-S355JR	10127.390	1	
PG110038_PG310	PG110038_PG310	1.000	10PLT-S355JR	10127.390	250.000	Split
PG110038_PG310	PG110038_PG310	1.000	10PLT-S355JR	10127.390	250.000	Split
PG110038_PG310	PG110038_PG310	1.000	8PLT-S355JR	10127.390	500.000	Split
PG510040_PG510042	PG510040_PG510	1.000	PGB520X250X250X10X10X8-S355JR	10139.880	1	
PG120029_PG120031	PG120029_PG120	1.000	PGB450X300X300X50X50X25-S355J0	6012.210	Phase 120	Not Split
PG120030_PG120032	PG120030_PG120	1.000	PGB450X300X300X50X50X25-S355J0	6195.980	Phase 120	Not Split
PG120030_PG120	PG120030_PG120	1.000		6195.980	300.000	No PLT Item with a Depth of 50 and Grade of S355J2
PG120030_PG120	PG120030_PG120	1.000		6195.980	300.000	No PLT Item with a Depth of 50 and Grade of S355J2
PG120030_PG120	PG120030_PG120	1.000	25PLT-S355J0	6195.980	350.000	Split

OK Cancel

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## *Prelim Listing to Detailed Listing transfer*

For Users wishing to import their plate girders / built-up sections into the Prelim Listing for a Contract, and then begin fabrication before the final model is issued, there is a new option within Detailed Listing to **Import Prelim Listing**.



For each Prelim Mark selected, this will create a Drawing, Mark and Mark Item of the same name within the Detailed Listing.

Note: a specific Prelim Mark can only be imported once into a Detailed Listing. Therefore if the same Prelim Mark occurs across multiple phases and the User initially only selects to import the quantity for Phase 1, it will not be possible to come back at a later time and import the quantity for Phase 2.

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## Contract Contacts tab

On a Contract, it is now possible to specify the individual Contacts working on the project. This is broken down into internal and external personnel.

Name	Job Title	First Name	Surname	Organisation	Company Number	Mobile Number	Email
Blackman, Pauline	Purchasing Officer	Pauline	Blackman	Ace Fabrications Ltd	01332 545800		paulineb@acefabs.co.uk
Carrick, Janet	Project Manager	Janet	Carrick	Ace Fabrications Ltd	01332 545800		janetc@acefabs.co.uk
Gibbs, Terry	Design Engineer	Terry	Gibbs	Ace Fabrications Ltd	01332 545800		terryg@acefabs.co.uk
Gleaves, Paul	Drawing Office Manager	Paul	Gleaves	Ace Fabrications Ltd	01332 545800		paulg@acefabs.co.uk

Name	Job Title	First Name	Surname	Organisation	Company Number	Mobile Number	Email	SourceTypeID	SourceKey
------	-----------	------------	---------	--------------	----------------	---------------	-------	--------------	-----------

This list of Contacts is then used throughout STRUMIS to make finding the right Contacts easier.

## Bolt Import Options

A new option has been added to the system BIMReview Detailed Listing - Tekla Import cad interface for the management of bolts.

Users can now differentiate between shop and site bolts when choosing if they are imported as part of their parent assembly or as standalone components. Previously, the option to include bolts with the assembly or not was for both bolt types.

This is in addition to several enhancements on the BIMReview Export plug-in for Tekla; the first of which allows the User to split a bolt assembly into its individual components (i.e. bolts, nuts and washers), and the second allows Users to define what constitutes a bolt "set", in order to differentiate between the standard and non-standard components (e.g. additional nuts and washers which would be purchased separately to a standard bolt set).



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## Minor Enhancements & Bug Fixes

- Prelim Batch is now retained when un-nesting Prelim Marks. There is a new Allocated to this Batch option within the Prelim Nesting & Ordering wizard which restricts Users to only using material already allocated to the specified Prelim Batch.
- A Prelim Batch column has been added to the Inventory search grid to allow Users to see the preliminary allocation of stock.
- Width field no longer changes to display in decimal inches on clicking Save throughout the system. (G6GB146678, GB8E636383)
- Salesman and Estimator fields added to the Details tab of the Contract form.
- The Preliminary Snapshot report no longer displays Prelim Marks nested to Inventory as Unfulfilled. (G8QI223789)
- Issue resolved with duplicate Marks occurring on the following reports; Detailed Drawing Register report, Mark Status report, Draw Master report. (F0069629, F0070321, F0070380, F0070398, G97I282328, GACH125572, GADI652A88, GAHH4525A3)
- Issue resolved when attempting to create a Contract Budget when there was a multi-contract nest Purchase Order line for the Contract. (F0070007)
- Error "Preliminary listing cannot be deleted as it is being used in other areas of the system" no longer occurs when attempting to delete a Preliminary listing, despite all Prelim Marks being un-nested and in Edit status.
- When importing a material list via the Import Detailed and Prelim Listing wizards, STRUMIS will now ignore the length properties of any non-steel Items.
- When using the Create Unrecognised Items option on the Import Prelim Listing wizard, the Item Properties mappings on the Cad Interface were not being applied. This has been resolved.

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## Purchasing

### New Features

#### Contract Specific Pricing & Lengths

This new feature is ideal for Users who agree fixed material prices with their Suppliers for the duration of a Contract. Prior to STRUMIS v10.1, it was only possible to have a blanket default price per Supplier – but this can now be broken down per Contract, and specific stock lengths can also be defined for individual jobs

The Item; Purchasing Information form allows you to set up supplier and cost information for the item.

Default Price: 0.00 Default Price Unit: (T) Tonnes

Supplier	Default Supplier	Contract	Unit Price	Price Unit	
Estimating Vendor / Stockist (Derby)	<input type="checkbox"/>		675.000	(T) Tonnes	GB
Estimating Mill (Derby)	<input type="checkbox"/>		675.000	(T) Tonnes	GB
BOQ Vendor / Stockist (Derby)	<input type="checkbox"/>		675.000	(T) Tonnes	GB
BOQ Mill (Derby)	<input type="checkbox"/>		675.000	(T) Tonnes	GB
Bishop Steel Ltd	<input type="checkbox"/>		500.000	(T) Tonnes	GB
Bishop Steel Ltd	<input type="checkbox"/>	C-0057	490.000	(T) Tonnes	GB
Bishop Steel Ltd	<input type="checkbox"/>	C-0062	485.000	(T) Tonnes	GB
Bishop Steel Ltd	<input type="checkbox"/>	C-0066	475.000	(T) Tonnes	GB
Turner Riddell Ltd	<input type="checkbox"/>		0.000	(T) Tonnes	GB
REQUEST FOR QUOTATION	<input checked="" type="checkbox"/>		0.000	(T) Tonnes	GB

Item - Batch Update

The Item; Batch Update Form

General Purchasing Information Selling Information Notes

Supplier: Bishop Steel Ltd

Contract: C-0067

Only Update Existing Suppliers ☐

Delete Supplier ☐

Default Supplier ☐

Change Pricing ☒

Roll Reference Serial ☐

Pricing

Apply By: Value

Unit Price: 485.000

Price Unit: (T) Tonnes

Discount %: 2.000

Default Purchasing Pricing

Apply By:

Unit Price: .

Price Unit:

Minimum Order Quantity: .

Order in Multiples of: .

Tax Code:

Lengths

☐ Add Lengths

☐ Remove Lengths

☐ Replace Lengths

☒ Only Selected Rows

Batch Update Close

These rates are then automatically used when raising Purchase Orders both manually and via the Nesting & Ordering wizards.

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## Purchase Order Authorisation

Individual Users can have maximum Purchase Order value limits set, to prevent materials and services being ordered without sufficient approval.

Start Page User: [j.struthers]

Details **Purchase Limits** Roles Custom Fields Attachments Information

Single Purchase Order Limit 20000.00

Authorisation  
Authorised bodies that will be e-mailed in the event an order will exceed costs code value, or total permitted order value.

Authoriser	Role	Email	Primary
Graham Wilson	Administrator	gwilson@acefabs.co.uk	<input checked="" type="checkbox"/>
▶ Pauline Bertrand	Administrator	pbertrand@acefabs.co.uk	<input type="checkbox"/>
*			<input type="checkbox"/>

Cost Code  
Cost Code with amount permitted per Purchase Order

Cost Code	Cost Centre	Description	Credit Limit
10.01	10	Hot Rolled	20000.00
10.02	10	Cold Rolled	20000.00
10.05	10	ConnectionBolts	5000.00
10.06	10	Anchor Rods / Holding Down Bolts	5000.00
20.02	20	Metal Deck / Grating	10000.00
50.04	50	Galvanising	15000.00
70.02	70	Equipment / Plant	10000.00
70.04	70	Site Safety	10000.00
*			

Limits can be defined for both the total Purchase Order value and by Cost Codes, and when a User attempts to set the Purchase order Status to Released, STRUMIS will check to see if their limit(s) have been exceeded. If they have, an email will be sent to nominated authoriser(s) with a copy of the Purchase Order attached and a link to approve it.

When clicking to approve, it will then check that individual's Purchase Order value limit(s) to ensure they have sufficient rights.

# STRUMIS v10.1 What's New Guide

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## Minor Enhancements & Bug Fixes

- Users can now change the Supplier on a Released Purchase Order, following the removal to do so in v10.0. STRUMIS will check to see if the new Supplier has the same currency as the original Supplier. (F0068716, F0068786, F0069106, F0069189, F0069198, F0069265, F0069274, F0069362, F0069444, F0069547, F0070114, F0070173, G62H165981, G6DD144326, G8IF512584, G8ND186916, G9JG692981, GA4D316996)
- Resolved incorrect weights and values issue on the Purchase Order Cut to Size report. (F0068488, F0069466, F0070146)
- (Site) and (Off-Site) location suffixes added to the Purchase Receipt Batch Update form Location list.
- Option to specify a watermark for un-released Purchase Orders.
- Purchase Order, Purchase Order Description, Receipt and Supplier Delivery Note columns added to the Purchase Invoice search grid. (F0068958, F0069876)
- Resolved incorrect order values on the Contract Summary by Cost Code report. (F0069493)
- Filtering by Item Name now works when the Show Lines option is ticked on the Purchase Order search grid.
- EDI Amendment column has been added to the Purchase Order search grid to indicate which Purchase Orders have EDIs raised. (F0069783)
- The Purchase Order EDI Return import grid now displays the Facility of the Purchase Order. (F0069784)
- Issue resolved when adding a Purchase Receipt to a Purchase Invoice, it was applying the Item's Unit Price as the Line Value. (F0070099)
- Issue resolved with incoming EDI files not being automatically processed. (F0069767)
- Issue resolved with the Purchase Order by Contract report not displaying manually added Purchase Order lines. (F0070172)

# STRUMIS v10.1 What's New Guide

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## Planning

### New Features

#### Long Range Planning Enhancements

Several enhancements have been included to improve the usability of Long Range Planning.

##### *Hours per Weight*

Users can now specify an Hours per Weight (e.g. Hours/Tonne) for every line on the Long Range Plan. As a result, each time weight is scheduled to a specific week, the hours will automatically be calculated.

Long Range Planning Selection

Select the Contract and Phase to add to the Long Range Plan.

Contract	C-0040
Phase / Zone	Phase 2
Description	P2 Simple Fab
Location	
Task	
Hours / (T) Tonnes	5.000 (T) Tonnes
Weight (T)	70.000
Hours	350.000

OK Cancel

A new **Hours per Weight** field has been added to the Contract Data tab to allow Users to enter a default value for the Contract, although this can be changed when adding lines to the Long Range Plan.

##### *New Allocated Weight and Allocated Time columns*

Two additional columns; **Allocated Weight** and **Allocated Hours** have been added to the Long Range Plan view. This totals how much weight and time has been scheduled to date for a line, displaying in **green** if under the Total Weight and Total Time and in **red** if over.

# STRUMIS v10.1 What's New Guide

Start Page

System Navigation

Production Planning Long Range

Long Range Planning

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Retrieve the long range planning data for the specified date range

Facility

Derby

View

All

From

11/13/2016

To

12/10/2016

Retrieve Data

Overview

Graph View

								Nov 06 2016		Nov 13 2016		Nov 20 2016		
Facility	Name	Phase	Description	Total Weight	Total Time	Hrs / (T)	Allocated Weight	Allocated Time	Weight (T)	Time (hrs)	Weight (T)	Time (hrs)	Weight (T)	Time (hrs)
Derby	C-0062	Phase 2		80.000	480.000	6.000	20.000	120.000	20.000	120.000				
Derby	C-0029	Phase 1		68.000	476.000	7.000	40.000	280.000			40.000	280.000		
Derby	C-0040	Phase 2	P2 Simple Fab	70.000	350.000	5.000	100.000	500.000	50.000	250.000	50.000	250.000		
Derby	C-0040	Phase 2	P2 Complex Fab	50.000	500.000	10.000	40.000	400.000	30.000	300.000	10.000	100.000		
Derby	C-0066	Phase 1	P1 Complex	50.000	500.000	10.000	55.490	554.902					18.650	
Derby	C-0066	Phase 1	P1 Standard	50.000	250.000	5.000	50.000	250.000					10.000	
Totals									100.000	670.000	100.000	630.000	28.650	
Capacity Available									100.000	650.000	100.000	650.000	100.000	
Capacity Remaining									0.000	-20.000	0.000	20.000	71.350	
Derby									100.000	670.000	100.000	630.000	28.650	

## Schedule Lots

In STRUMIS v10.1, it is now possible to schedule a Contract's Lots to the Long Range Plan. Once a Detailed Listing has been imported for a Contract and the Lots have been defined these can then be assigned to specific weeks on the Long Range Plan.

Lot Name	Weight (T)	No. Marks	LinkedToDetail
CR 1	0.029	352	
Lot 3	20.262	1113	
Lot 4	0.042	226	
Lot 5	0.035	188	

Total Scheduled Weight (T) 35.798

As a result of this, the weight (and potentially hours) of that week will be updated to reflect the weight of the assigned Lot(s).

## Auto-updated from Detailed Planning

Further to being able to schedule individual Lots to a week on the Long Range Plan, if a Lot is subsequently scheduled to a different week on the Detailed Plan, there is an option to update the Long Range Plan automatically to reflect this.

Note: this feature will move the Lot's weight to the corresponding week as per the Detailed Plan. The time will also be updated if using the Hours per Weight feature, but will not reflect the timings calculated on the Detailed Plan.

# STRUMIS v10.1 What's New Guide

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## Minor Enhancements & Bug Fixes

- New views on the Long Range Plan now allow Users to select:
  - SIMPLE – which displays 1 row per Contract, summarising all scheduled work.
  - CONTRACT – which only displays lines for the specified Contract.
- When moving a work block within the Detailed Plan, the number of days will no longer increase if the block is not precisely placed on another day.
- Location column added to the Resource Schedule view in Detailed Planning.

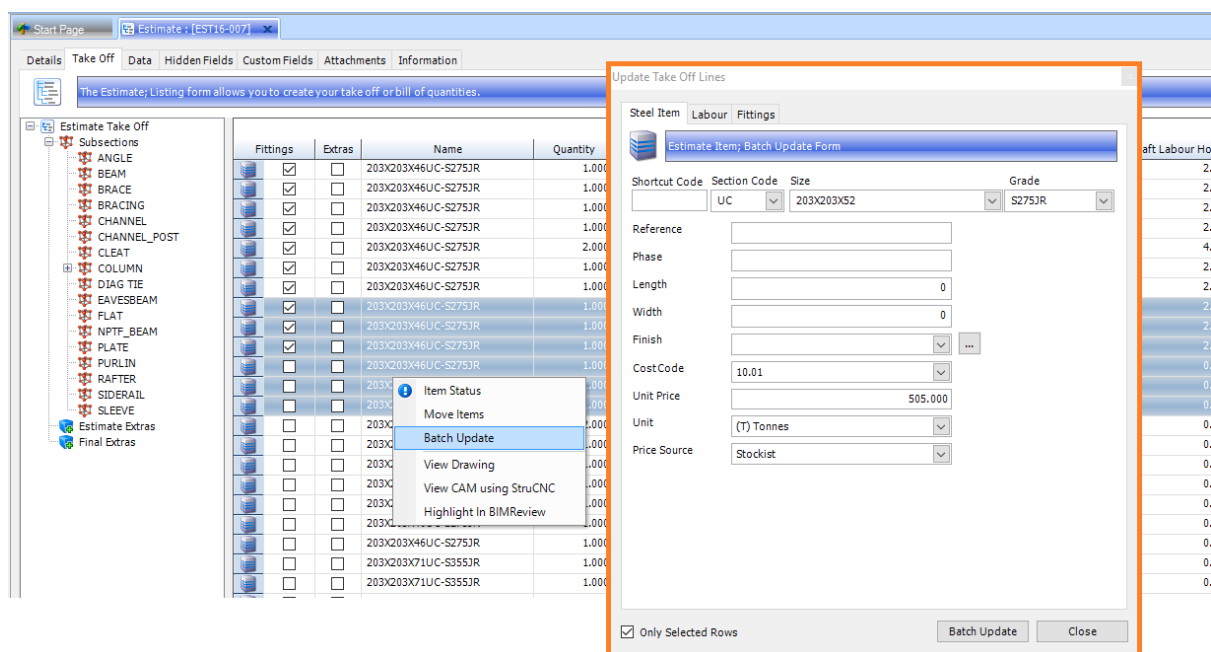
# STRUMIS v10.1 What's New Guide

## Estimating

### New Features

#### Batch Update Estimate Lines

It is now possible to update a wide number of properties on Estimate lines, including Item, Length, Width, Price, Fittings and Labour.



This will save Users significant time when initially only the basic take-off is done, but needs to be retrospectively updated to apply pricing and labour. It can also be used if there is a wholesale change to the Estimate, such as the section size for all columns being updated to a large profile.



# STRUMIS v10.1 What's New Guide

## Add Steel and Non Steel Items as Fittings

When adding a Fitting to an Estimate line, Users can opt to simply enter an additional Steel or Non Steel item, as opposed to selecting a pre-defined Fitting from the Fittings library. This makes building “assemblies” a lot quicker and easier, and removes the time-consuming process of adding Fittings to the library even if they will only be used the once.

The image displays two screenshots of the STRUMIS software interface, specifically the 'Fitting Item' form. The left screenshot shows the 'Steel Item' tab selected, and the right screenshot shows the 'Non-Steel Item' tab selected. Both forms allow users to enter details for a fitting, including name, item, quantity, length, width, weight, area, and value.

**Left Screenshot: Estimate Steel Item Fitting : [80X80X6.0RSA-S275JR]**

**Fitting Item** | Labour Process | Fitting Group

The Fitting; Details form allows you to create / edit a fitting to be applied to an item

☐ Fitting ☒ Steel Item ☐ Non-Steel Item

Fitting Name: 80X80X6.0RSA-S275JR

Item: RSA 80X80X6.0 S275JR

Quantity: 24 Cost Code: Estimate Steel Item Fitting : [M20X45 XOX BOLT 8.8]

Length: 380 Unit Price: 0

Width: 0 Unit: 0

Weight (T): 0.067

Area (M²): 2.842

Value: 41.8380

Delete

**Right Screenshot: Estimate Steel Item Fitting : [M20X45 XOX BOLT 8.8]**

**Fitting Item** | Labour Process | Fitting Group

The Fitting; Details form allows you to create / edit a fitting to be applied to an item

☐ Fitting ☐ Steel Item ☒ Non-Steel Item

Fitting Name: M20X45 XOX BOLT 8.8

Item: M20X45 XOX BOLT 8.8

Quantity: 48 Cost Code: 10.05

Length: 0 Unit Price (GBP): 0.2200

Width: 0 Unit: Each

Weight (T): 0.000 Price Source: Stockist

Area (M²): 0.000

Value: 0.0000

Delete New Save Close

# STRUMIS v10.1 What's New Guide

## Add & Edit Fittings on-the-fly

Fittings can now be created on-the-fly from the Estimate Steel Item Fitting form. Likewise, existing Fittings can be modified from the same screen.

Clicking on the ellipsis [...] button to the right of the Fitting combo box will open up the New Fitting form, whilst the same button inside the Fitting combo box will open up the currently selected Fitting in edit mode.

Estimate Steel Item Fitting : [New]

Fitting Item Labour Process Fitting Group

The Fitting; Details form allows you to create / edit a fitting to be applied to an Item

☒ Fitting ☐ Steel Item ☐ Non-Steel Item

Fitting BP25-AUTO

Name BP25-AUTO

Item

Quantity	1	Cost Code	N/A
Length	0	Unit Price (GBP)	0.0000
Width	0	Unit	(kg) Kilos
Weight (T)	0.000	Price Source	Stockist
Area (M²)	0.000		
Value	0.0000		

Delete New Save Close

This will save Users valuable time, by removing the need to come out of the take-off screen to add or edit a Fitting from the Fittings library.

# STRUMIS v10.1 What's New Guide

## Steel Item Take-Off form Enhancements

Numerous improvements have been made to the Steel Item take-off form to make the User experience more efficient and User-friendly.

### Hidden Fields

Users can now select which fields are visible and which ones are hidden to simplify the take-off form, meaning Users only see the values they wish to input. This can be configured on an estimate-by-estimate basis.

The screenshot shows the 'Hidden Fields' configuration window in STRUMIS v10.1. The window has a menu bar with 'Details', 'Take Off', 'Data', 'Hidden Fields', 'Custom Fields', 'Attachments', and 'Information'. Below the menu bar is a title bar 'Hidden Fields: Fields that can be hidden on the form and child forms.' The main area is titled 'Item Listing Hidden Fields' and contains a table with columns 'Field' and 'Hidden'. The 'Hidden' column is highlighted with an orange box. The table lists the following fields: Cost Code, Labour Usage, Unit, Paint Finish, Phase, Price Source, Reference, and Unit Price. The 'Hidden' column contains checkboxes for each field, all of which are currently checked. The 'Hidden' column is highlighted with an orange box.

Field	Hidden
Cost Code	<input checked="" type="checkbox"/>
Labour Usage	<input checked="" type="checkbox"/>
Unit	<input checked="" type="checkbox"/>
Paint Finish	<input checked="" type="checkbox"/>
Phase	<input checked="" type="checkbox"/>
Price Source	<input checked="" type="checkbox"/>
Reference	<input checked="" type="checkbox"/>
Unit Price	<input checked="" type="checkbox"/>

Note: certain mandatory fields cannot be hidden, such as Code, Size, Grade, Quantity and Length.

# STRUMIS v10.1 What's New Guide

## Item Shortcut Codes

For Users preferring to use the numeric pad only when entering steel sizes, they can now configure Shortcut Codes for every Steel Item.

For example, a 254X254X73UC may have a shortcut code “25473”, and when entered on the take-off form the Section Code and Size fields are automatically populated. The Grade field will subsequently be auto-populated based on the Item or Estimate default.

The screenshot displays two windows from the STRUMIS v10.1 software. The top window, titled 'General Search [Section-Type]', has a 'Shortcut Code' tab selected. It shows a table with 'Section Size' and 'Shortcut Code' columns. The row for '254X254X73' is highlighted with an orange border, showing its shortcut code as '25473'. The bottom window, titled 'Estimate Steel Item', has a 'Labour' tab selected. It shows a form for entering item details. The 'Shortcut Code' field is highlighted with an orange border and contains the value '25473'. The 'Section Code' is 'UC' and the 'Size' is '254X254X73'. The 'Grade' dropdown is set to 'S355JR'. The 'Unit' is '(kg) Kilos'. The 'Labour Usage' is set to '1'. The 'Calculate' button is visible at the bottom of the form.

Section Size	Shortcut Code
203X203X113	203113
203X203X127	203127
203X203X146	203146
203X203X152	203152
203X203X160	203160
203X203X171	203171
203X203X186	203186
254X254X107	254107
254X254X132	254132
254X254X167	254167
254X254X73	25473
254X254X89	
305X305X118	
305X305X137	
305X305X158	
305X305X198	
305X305X240	
305X305X283	
305X305X397	
356X368X129	
356X368X153	
356X368X177	
356X368X207	

Estimate Steel Item

Steel Item Labour Fittings Extras Custom Fields

Estimate Steel Item allows you to add a Steel Item to the Subsection.

Line Number

Shortcut Code Section Code Size Grade

25473 UC 254X254X73 S355JR

Assembly Details

Quantity 1 Unit Price (GBP)

Length 0 Unit (kg) Kilos

Width 0 Labour Usage

Paint Finish

Calculate New Item Save As New Delete New Save Close

Note: this feature needs to be enabled in *System Options – General – Enable Shortcut Code On Steel Item Picker*. These Shortcut Codes are configured on the **Section Type – Shortcut Code** tab.

# STRUMIS v10.1 What's New Guide

## *Layout Changes & New Fields*

Some additional aesthetical changes include:

- New Phase and Paint Finish fields.
- Labour Usage dropdown list is now available on the first tab, meaning Users are no longer required to go to the Labour tab to select the required usage.
- Assembly Details group is now minimised unless the line is part of an Assembly.

Estimate Steel Item

Steel Item Labour Fittings Extras Custom Fields

Estimate Steel Item; allows you to add a Steel Item to the Subsection.

Line Number

Shortcut Code Section Code Size Grade

20346 UC 203X203X46 S275JR

Assembly Details

Reference S18 Cost Code 10.01

Quantity 1 Unit Price (GBP) 650.000

Phase Unit ((T) Tonnes)

Length 8505 Price Source Stockist

Width 0 Labour Usage

Paint Finish

Calculate New Item Save As New Delete New Save Close

## *QS Analysis for Estimating*

It is now possible to import an Estimate take off into a QS Analysis and then re-import the categorised listing back into an Estimate.

This will benefit Users producing Bill of Quantities / Unit Pricing estimates, where they wish to perform a full material take off and sort the individual items into the relevant categories.

Note: when importing a QS Analysis back into an Estimate, any Fittings, Labour and pricing applied to an item in the original Estimate will be lost. It is therefore advised that the User only performs the initial material take off prior to performing a QS classification.

## *Minor Enhancements & Bug Fixes*

- New Key Requirements and Project Meetings tabs on the Enquiry form, plus additional fields added to the Details and Design Details tabs.
- Value, Weight and Area totals and Value/Weight columns added to the Subsection grid on the Estimate Take Off form.

# STRUMIS v10.1 What's New Guide

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## Items & Inventory

### Minor Enhancements & Bug Fixes

- Users can now opt to hide Mark and Mark Item lines from Inventory, using the “Include Production in Inventory Search” option within Items & Inventory Options or the “Include Production Inventory” on the Advanced tab of the Inventory search. This will significantly reduce the number of rows being returned, and as such should result in an improved performance.
- Item Group, Item Class and Facility fields are now available to add to the Item Quantities Below Minimum Summary Sheet report. (F0061946)
- The error “The statement failed, <Referential/Check Constraint violation>” error no longer occurs when attempting to remove Grades with the Section Wizard.
- Performance improvements of the Movement report. (F0068836, F0069859)
- Cast References added manually via Inventory are now available to select within a Test Certificate Document. (F0068844)
- Resolved incorrect Contract groupings on the Inventory Summary Sheet report. (F0068910)
- Error “Conversion from string to type ‘integer’ is not valid.” no longer occurs when typing a rogue value into the Contract field on the Allocate Inventory form.
- Error “4046” no longer occurs when updating the DXF on an Inventory item. (G8UJ623891)
- STRUMIS can now import DXF files containing POLYLINE and LWPOLYLINE entities to Inventory items. (F0066870, F0069832, F0069884, F0070105, F0070519, F94D473A7A, FC1B412614)
- Issue resolved with Inventory duplicating when a test certificate covers two or more CE Marks. (F0069986)
- Cross references can now be imported for non-steel Items. (F0067916)

# STRUMIS v10.1 What's New Guide

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## Production

### Minor Enhancements & Bug Fixes

- With the addition of two new post processors; PeddiBeam+ and PeddiAng+, STRUMIS now outputs Peddinghaus' MLT nested bar file, compatible with the PeddiMat control software.
- Various changes made to the View Lot form to prevent date restrictions causing an error loop.
- Batch Update option added to the View Lot form to allow dates to be bulk updated.
- PartGUID is no longer being excluded from certain IDSTV+ exports. (G41D662726)
- Mark Items and Marks on hold are no longer issued when selecting the Bypass Template Logic option on the Generate Contract Work Orders wizard.
- When using the Production Console – Simple Cutting form to swap a bar / sheet, Users can now also opt to swap the location by using the Swap Bar / Sheets Locations checkbox.
- Improved response time when selecting rows in Production Console. (F0068713, G96B492597)
- The Destination Location dropdown list on the Production Delivery Note form is now sortable by name.
- When the Show in Ordering option is ticked for a given Location, the Location is now available to select in the Processes grid of the Generate Contract Work Orders wizard.
- Purchase Order column has been added to the Cast Reference and Tracking Number dropdown lists on the Production Console – Simple Cutting form. (F0068666)
- Issue resolved with completing manual Production Cutting transactions with a pro-rated offcut line. (F0070383)
- When selecting an alternative Cast Reference on the Production Console – Simple Cutting form, STRUMIS will now also update the Tracking Number to the first instance with the selected Cast Reference. (F0069800, G8PB234436)
- PeddiBeam post processor is now looking in the correct location for the .CAT file. (F0064815, F1VE344211)
- Issue resolved with duplicate Marks occurring on the following reports; Site / Contract Off-Site / Sub Contractor / Workshop / Storage Production Delivery Note reports, Delivery Note Status report, Material at a Production Stage report, Outstanding Work report, Item Barcode Labels report, Material Traceability report. (F0069629, F0070321, F0070380, F0070398, G97I282328, GACH125572, GADI652A88, GAHH4525A3)
- Issue resolved with exchanging Cast References with part received Purchase Order lines on the Production Console – Simple Cutting form.
- Error "CNCGui has stopped working" no longer occurs when attempting the Send CAM to Workstation using the PeddiBeam post processor. (GABH116417)
- The Nesting Pick List report and the Detailed Nesting Cutting List reports will now display the Purchase Order of the bar / sheet, even if this was manually entered as an Inventory Adjustment. (GARD311AA7, GB7D484199)
- Batch (i.e. nested batch) column has been added to the Production Control and Production Console grids. (G6LC322431)

# STRUMIS v10.1 What's New Guide

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## Document Management

### Minor Enhancements & Bug Fixes

- Category, Priority, Vendor RFI Number and Main Contractor / Suppliers RFI Number fields added to the RFI form.
- Revision control of RFIs, allowing the ability to record and track all versions of an RFI.
- Users can now specify a Default Location for individual Document Types – so when documents of a given type are imported, they are automatically moved to the nominated file location.
- Cast References added manually via Inventory are now available to select within a Test Certificate Document. (F0068844)



# STRUMIS v10.1 What's New Guide

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## STRUCNC

### New Features

#### Improved Hole & Array Definition

A new User interface has been introduced to simplify the process of adding holes and arrays of holes. A series of additional commands also allow for holes to be copied and mirrored.

#### Cut Type Modifications

Numerous improvements have been made to Cut Types, including support for several new types of cut, and reclassification of the existing library.

#### New Batch Operations

A number of new options have been added to the Batch Process tool:

##### *Cut to Scribe*

This will remove any non-square cuts and replace them with scribe markings.

##### *V Shape End to Mitre and Scribe*

This will remove one of the mitre cuts on a double-mitre end and replace it with a scribe marking for the removed cut.

# STRUMIS v10.1 What's New Guide

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## System

### Minor Enhancements & Bug Fixes

- Modules are now grouped correctly when viewing the Roles form in a non UK English language. (F0061781, F0062000, F0070031, EC1D151193, G67F67575A)
- Issue resolved with Users not being able to change their own password, despite having Update permissions on the User object. (F0070048, G9SA451A1A)
- Issue resolved when attempting to run a report to an Excel template. (F0070097, F0070168, F0070236, GAAB6A17A1, GB1A253632, GB3I2A3585)