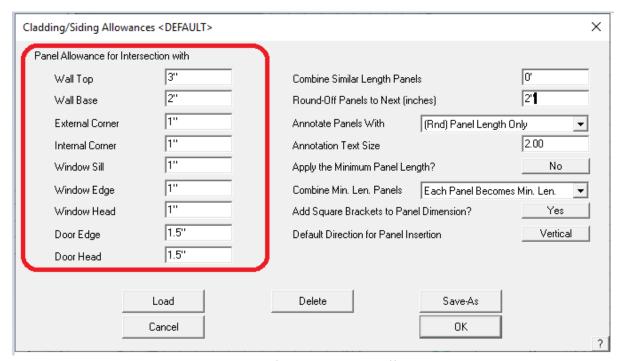


ENHANCEMENTS

New Allowance Settings

Panel allowances have been added for Wall/Siding panels and work in much the same way
as they do for roof panels. The allowances can be modified through the Walls > Allowances
menu option and present as per the image displayed here.



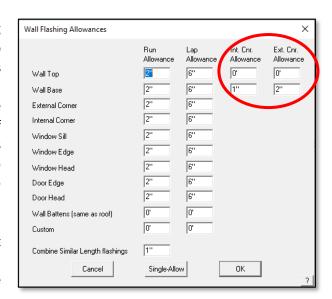
Saving the allowances away to a named configuration allows different panel allowances to be selected depending on the user requirements.

Note: Unlike roof plane offsets, where you have to specify whether you want these offsets applied to each panel directly or you wish to create an "as-built" or offset plane, the offsets for walls are immediately applied without this requirement. That is to say, that once defined, they will be applied when you next generate wall panels.

 Internal and External wall flashing corner allowances have been added to the Wall > Flashing > Allowances dialog.

These allowances work in much the same way that they do for roof flashings and rely on wall directions (inside/outside) and connections to determine whether two successive flashing lines configured in an internal or external way.

As such, the allowances are not automatically applied for walls drawn individually or flat. In this case, the Single-Allow button needs to be used

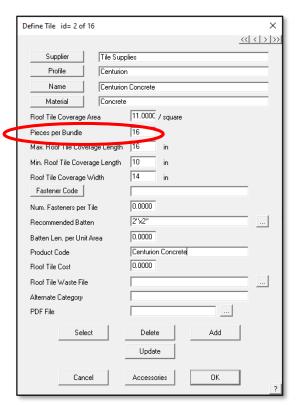


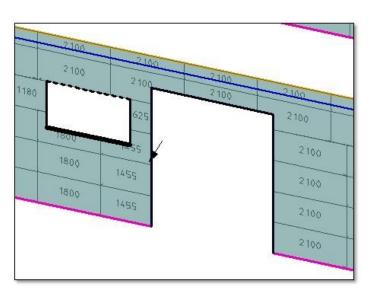
to modify flashing allowance lengths accordingly.



The ability to specify the number of bundles that tiles can be ordered in has been added to Version 10 of the Roof Wizard software. If this number is left at 1 (default) then the software works as it used to, however if you modify the bundle to a number greater than 1, the number of tiles will be reported in bundles instead of individual tiles.

This might be used to order tiles by the full pallet (bundle).



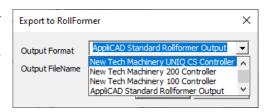


• The calculation of wall panel lengths when divided into Stock Lengths has been substantially modified to ensure all lengths created are specified as stock lengths, whereas previously it was possible to have a number of shorter lengths that were not specified as actual stock lengths. Furthermore, the calculation has been modified, with the assistance of substantial user input, to reduce the amount of waste and to return lengths of material more in-line with what the cladding market specifies.

The internal and external flashing allowances described in a previous enhancement in this release further provide benefit to the calculation of the correct panel lengths, with these allowances either pushing the calculations up to the next panel length or being absorbed into the current stock length.

New Export Cutting List Format

 The new New-Tech Machinery UNIQ-CS Controller Output has been added to the "Export to RollFormer" output to support New-Tech's new import format for the UNIQ-CS controller.





New Reporting Options

 A new Key Text String ###CostingDetailsTable5 has been defined that allows a Unit of Measure column to be specified and displayed based on a separate file UOM.DAT, as displayed here.

The product code and UoM string can be specified and this will be displayed alongside the Qty column in the output table.

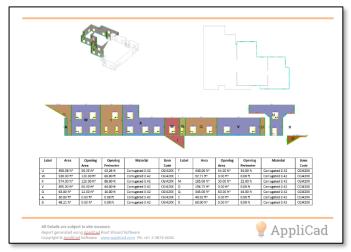
UOM.DAT - Notepad					
File	Edit	Format	View	Help	
1002	241-1	,SqM			
ASEV	WALL,	SqM			
MWZI	ISTYZ	A,Pcs			
LST2	20X30	.5,L/M			
1002	237,L	./M			
NBS	00117	A,Pcs			

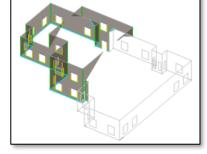
 Added Key Text Strings ###TileAccessList, ###ShingleAccessList and ###ShakeAccessList to provide a 2-column output of the accessories related to tiles, shingles or shakes respectively. The 2-column table displays the Product Description in the first column, with the Product Code in square brackets) and then the quantity of product in the second column.

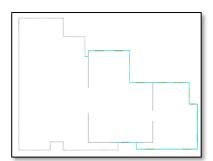
Tile Accessory	Qty
Tile Clips (CST_TC]	1240
Apex Tile (CS-AT)	4
Shell End (CS-SE)	12
Ridge Vent (CS-RV)	42

To assist with the documentation of Wall Cladding, a new Key Text String ###UnfoldWallReport has been created to allow a Wall Model report to be automatically created with minimal input from the user. All that is required is the inclusion of the single Key Text String ###UnfoldWallReport in a single-page report template in MS Word, and the Roof Wizard software will break down the wall model into sections to display a number of wall planes per page, allowing a table to also be created providing material covering, labels, areas, opening areas, opening perimeters etc.

Shaded views are created to highlight which walls from the 3D model are included in each page, as well as a plan view, also highlighting which walls are included.







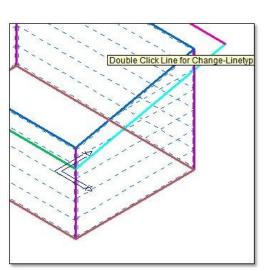
Once in the Word report, additional annotation may be added and the layout adjusted to suit the needs of your business.

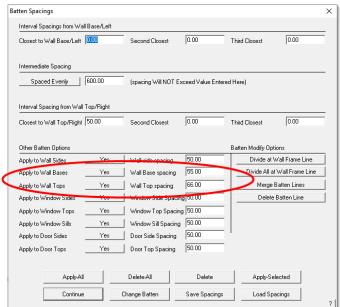


 The ###PitchAreasTable has been enhanced to include the Material applied to each Roof Plane. Multiple plane types in each model are therefore split out and tallied separately, as per the example below.

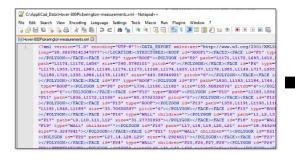
Pitch/Slope	Area	Material
30.3	3963.0m²	Metal
Total	3963.0m ²	Metal
12.0	1290.0m²	Tiles
Total	1290.0m²	Tiles
Overall Total	5253.0m ²	

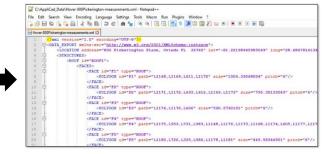
2 new options have been added to the Batten Spacing menu for Wall Battens/Purlins. These
are "Apply to Wall Bases" and "Apply to Wall Tops." Setting these 2 options to valid values
produces a result such as can be seen here.





Added a new feature to the XML Import routine to ensure XML files without carriage returns
are automatically formatted to include these and therefore provide a much more readable
file. The Import process also benefits from being able to more clearly decipher the file, thus
increasing the accuracy of the import information.

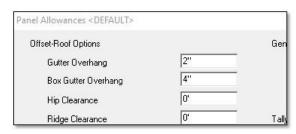




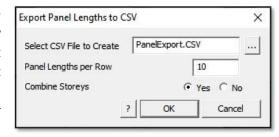


 A new clearance option has been added to the Panel Allowances dialog to allow the user to define an overhang for Panels when reaching a Box-Gutter line.

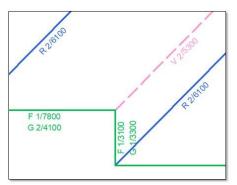
As can be seen here, the new value appears between the Gutter Overhang and the Hip Clearance options.



• The Export Panel Lengths option in the software from the Tally-Panels menu now allows the user to specify whether the output to a CSV should be split by Storey. The default value for "Combine Storeys" is set to "Yes" so that existing users are not affected however setting the value to "No" will split the panel length output by storey.



Improved Annotation



• One of the most important improvements in Version 10.0 of the Roof Wizard is the reduction of Vector font usage in favour of TrueType fonts. The reporting output of the software has been modified to use Windows EMF (Enhanced Metafile) bitmaps for reporting rather than the previous WMF (Windows Metafile) bitmaps. The end-result is that fonts are re-rendered within a Word, Excel of PDF document when the user zooms in or out, resulting in very crisp images and clear dimensions, text etc.

The images displayed here show the improvement in readability and this readability is the same, independent of the zoom scale that the user is viewing the output in.

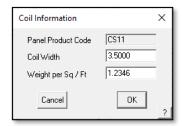
- Added a new "Flip Text Direction" option under Tools > More > Modify-Text menu option to allow text to be "mirrored". This functionality is useful to assist in the modification of text in ISO views, such as Wall Panel text, to improve readability.
- Two new Key Text Strings have been added to the software to allow for the reporting of the flashing allowances and panel allowances used on any job so that all participants know what



settings have been used in creating the final panel cutting list.. The Key Text Strings are ###FlashingAllowanceTable and ###PanelAllowanceTable and the tables produced are as displayed below:



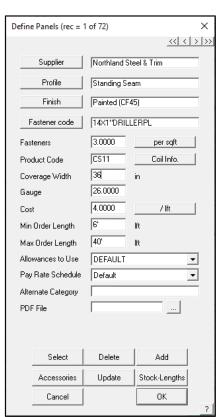
- A new Key Text String ###HSheetListTable2 has been created to split panel quantities and lengths into separate columns within Excel so that users can extract the values individually for various purposes. The lengths of the panels are specified in such a way as to be able to be used within business management software such as SAP™.
- The ability to create a Roof Wizard Order Form template, previously only available as a CAD Report or a MS Word Report, has been extended to include MS Excel.
- A new Key Text String ###MaterialQuantityTable has been created to write material
 information directly into Microsoft Excel to suit the particular requirements of a specific
 customer. Additional information on this enhancement request will be defined in the
 AppliCad Roof Wizard documentation.
- A new option for "Coil Info." has been added to the Define Panels dialog to permit the entry of the width of the coil and the weight per SqM or SqFt (depending on units) of the material that the panel is manufactured from.



In addition to this functionality, 3 additional Key Text Strings have been defined to allow for the following functionality:

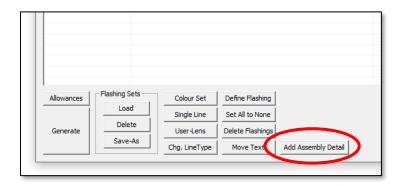
###CoilWidth – Displays the Coil Width specified ###CoilWeight – Displays the Coil Weight specified ###JobCoilWeight – Displays a calculated value of the total area of coil multiplied by the weight of that material. This calculation is unit-nonspecific,

allowing the user to determine what units should be specified, such as kg. lbs. etc.





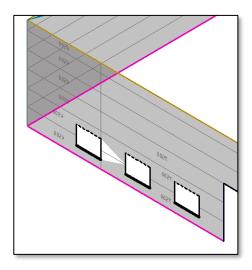
CHANGES



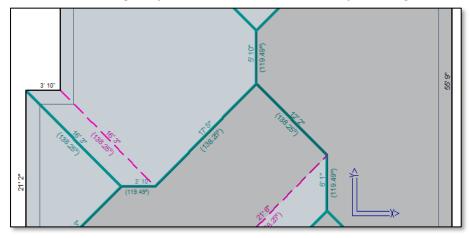
• The placement of an Assembly Detail (whether it had been created or otherwise) was previously forced by the software each time an Assembly was specified as a line flashing. However, we have modified the code to provide this functionality separately. See "Add Assembly Detail" button at the bottom of the

Cover > Flashings dialog. The added benefit of this function being separated from the Assembly application is that it allows the user to insert an Assembly Detail image whether the assembly has been specified or not.

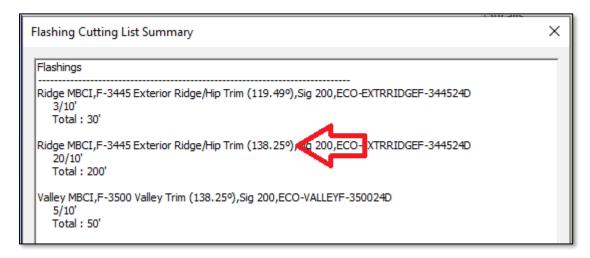
 Changed the routing of panels for wall panel generation so that any splitting of a wall using a window or door line does not create a wall panel issue such as is displayed in the image to the right.



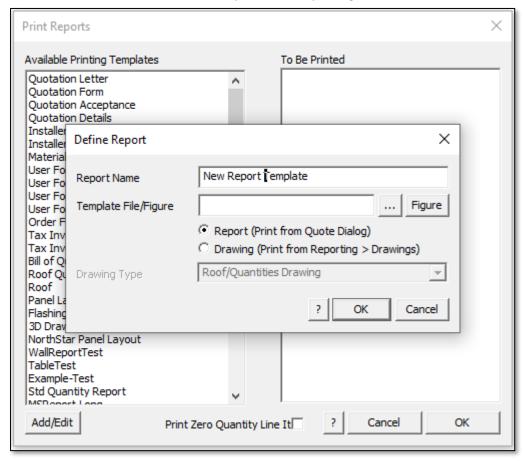
The output of flashing details on reports has now been modified to include the "bend angle" where it is specified to be included by double-clicking in the "Show Angle" field of the Set-Up > Preference-Settings > System Preferences > Set Line Styles dialog within the software.







The [Report] selection dialog in Costing > Supply&Install has been modified to include the
[Add/Edit] report button as per the Tools > More > Edit User Templates dialog so that reports
can be created and edited as an inline process to reporting.



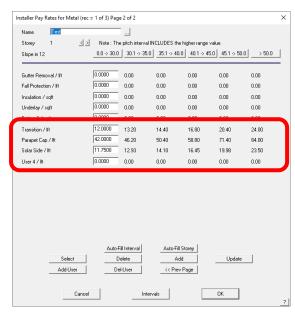
• The automatic insertion of Wall Battens/Purlins when they were pre-specified for a wall plane but not inserted as yet, has been removed. This is to ensure that battens/purlins for a wall don't suddenly "appear" as a result of changing a wall orientation.

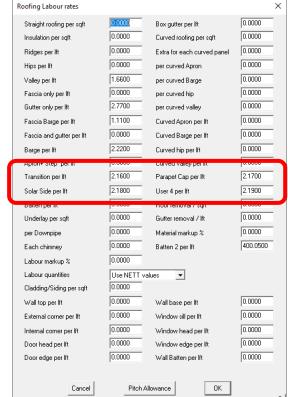


- Added 8 new Section Report Key Text Strings:
 - ###SECTIONREPORTDIR
 - o ###SECTIONREPORTDIR2
 - ###SECTIONREPORTDIR3
 - ###SECTIONREPORTDIR4
 - ###WALLSECTIONREPORTDIR
 - ###WALLSECTIONREPORTDIR2
 - ###WALLSECTIONREPORTDIR3

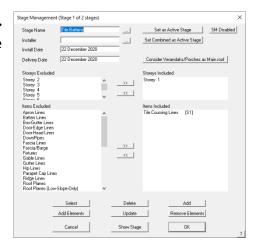
That perform in the same way as their existing counterparts (without the DIR) extension, however the output of panels in the panel table are sorted in the direction of the "Direction of Lay" arrow.

User-Defined Line Styles (1 through 4) can now have fixed and variable labour rates assigned to them, either through the Set-Up > Set Up Pay Rates > Metal pay rates - fixed or Metal pay rates - variable menus.

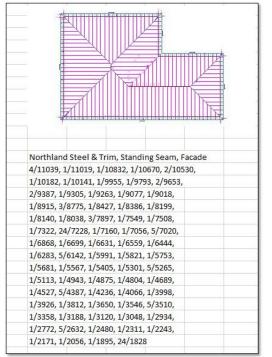




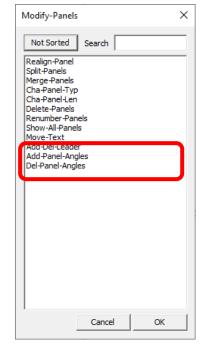
 Tile Coursing Lines are now included in the Cover > Stage Manager dialog, so that staging for the placement of Tile Purlins/Battens can be created.







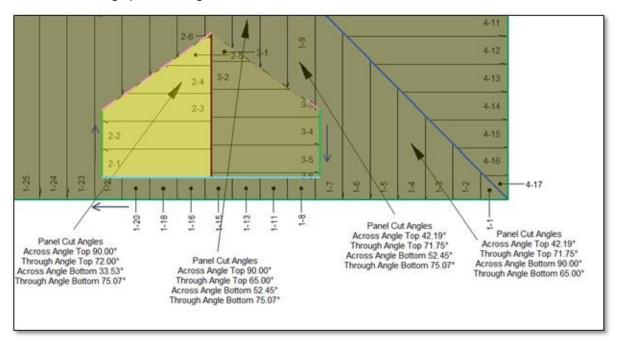
• Modified the output of the ###SheetListTable Key
Text String so that the default output to Microsoft™
Excel® files now is in the same format as the output to
text files, being 5 columns of sheet lengths before a
new row (in the same column) is started.



 A new feature has been added to the Modify-Panels menu that permits Panel Cut Angles to be dimensioned on any drawing that utilises individual metal panels.

Two new commands to Add and Delete Panel Angles have

been added and allow you to select the Panel to be dimensioned, prior to placement of the dimension text. Angles of Cut for the Top and Bottom of the panel are included, as well as the angle "through" then panel, for when panels have a thickness to them. This resultant angle is taken between the cut angle at either end of the panel and a vertical plane extending up from the ground.

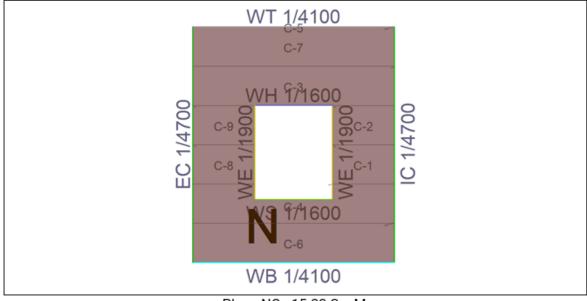




• Added ###UnfoldedWallReportTable option to the TableFormats.CSV file so that the tables in Unfolded Wall Report output can be styled in the same way as the rest of the report.



 Flashing output for Wall Section Reports has now been included to provide additional value to the report. The flashings display as they would normally in the software, so if the user does not wish to have them on the report, they need to be disabled using the Tools > Set-Display item prior to reporting.

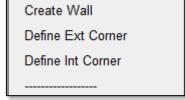


Plane NC - 15.33 Sq. M.



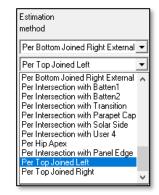
The Estimation > Set-Panels > Change-Offset command can now be performed on a roof
plane with panels on it, without having to delete the panels firstly. Any changes to the AsBuilt plane are applied after the deletion of all panels on that plane. The panels are then reinserted, ready for re-tallying.

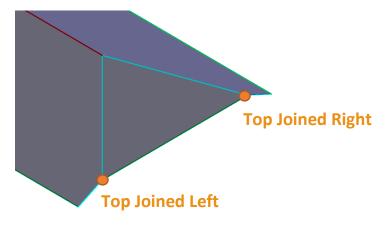
Two new functions have been added to the Walls pulldown menu option to permit the identification of Wall Corner lines to be either Internal or External. For 3D walls joined at a corner, the software automatically calculates internal and external corners based on the Wall Direction.



However, for walls drawn individually (in 3D or Flat) the software was unable to automatically calculate this, so these new functions have been created to allow the user to define the corner as Internal or External.

 Two new Estimation Methods have been added to the Flashing Accessory dialog to permit the calculation of accessories at the connection of a raking (sloped) and flat upper line, where there is no 2D angle between the two lines. Such an instance allows for the calculation of items such as Fascia Splice Plates at the top of raking lines making up a Slice Hip configuration in the software.





- Nine (9) additional Key Text Strings have been created to allow for the output of Fall Protection information. As roofer safety becomes ever more important, governments are requiring various levels of fall protection to be included on many jobs. These new Key Text Strings allow for the output of up to 3 different Fall Protection products:
 - o ###Fall1Name
 - o ###Fall1Qty
 - ###Fall1Cost
 - o ###Fall2Name
 - o ###Fall2Qty
 - ###Fall2Cost
 - o ###Fall3Name
 - o ###Fall3Qty
 - ###Fall3Cost

Fall Protection 1 Name: SDN,Side-Drop Net,Fall Protection
Fall Protection 2 Name: 2RF,Two Rail Fence,Fall Protection
Fall Protection 3 Name: 3PL,Three Plank Walkway,Fall Protection
Fall Protection 1 Qty: 264
Fall Protection 2 Qty: 200
Fall Protection 3 Qty: 263
Fall Protection 1 Cost: 22.00
Fall Protection 2 Cost: 16.00
Fall Protection 3 Cost: \$4.00

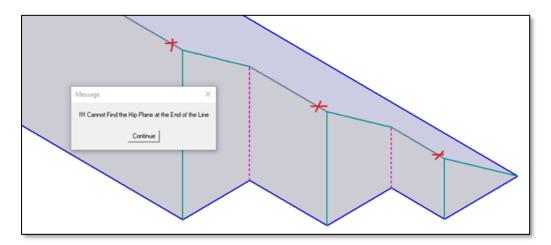


ISSUE RESOLUTIONS

- Fix for **Construct Roof > Mirror > Line Offset** command when using ft/inches as it was converting to metric equivalent.
- Fix for Bend Angle not being displayed for key text string ###Flashingtable2

Flashing / Trim	Qty	<u>UOM</u>	Bend Angle
F-3445 Exterior Ridge/Hip Trim	3	EA	0°
F-3290 Drip Trim 1-1/2"	6	EA	0°
F-3290 Drip Trim 1-1/2"	5	EA	0°
F-3420 Gutter Wall 2"-6"/Roof 2"-3"	6	EA	0°
F-292 Parapet Rake Cl	5	EA	0°

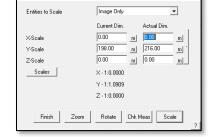
- Resolved issue of Curved roof panels also displaying in the Supply & Install dialog as Siding, thus doubling up on curved panel estimation.
- Fixed issue for ###BargeList not creating flashing list in CAD templates caused by renaming of line types from Barge to Gable.
- Fixed issue of ##LI key text strings working correctly in Office365 versions of Word
- When splitting panels with a defined stock length, the software had incorrect indexing of the stock length panels which sometimes resulted in the wrong panel lengths being displayed. This issue has been resolved.
- Fixed issue to ensure stock lengths are deleted if they are removed from the Stock Length dialog.
- Issue resolved where user-defined flashing allowances and single-line allowances were not being correctly applied to their flashing calculation lengths.
- Resolved issue where selection of a Hip in ISO View wasn't selecting the correct end of the Ridge Line, resulting in the following error.



- Resolved instance where a user specifying more than 25 characters for a fastener product code would cause the CSV file to become corrupt.
- Modified code to allow for old and new rule specifications for Commercial Flashing Assemblies.
- Fixed issue with Section Letters inadvertently appearing on the ###RoofImage created image.
- Resolved issue of panels not appearing on ###SectionReport imagery.



- Resolved issue where a blank dialog box would appear when attempting to place the graphic image associated with Flashing Assemblies.
- Fixed issues relating to the Add and Tally Flashing Details menu options as neither of them worked as documented.
- Resolved allowances not being applied properly to User2, 3 and 4 line types.
- Fixed issue relating to the [Prev] and [Next] buttons on the Custom Profiles selection dialog.
- Modified code to ensure all tags applied to lines for Wall Battens are marked as WALLBATTEN not WALL BATTEN.
- Dormer insertion where the ridge line of the dormer was higher than the roof panel onto
 which it was being inserted was creating incorrect geometry. This issue resolved to create
 similar (but less complex) geometry to what the software used to create.
- Fix to ensure fall protection lines can be defined as Gutter-Only lines.
- Modification of the calculation of flashing accessories to ensure a calculated flashing bend angle does not affect the location of accessories.
- Resolved an issue where the number of DownPipe accessories calculated was incorrect if the word "Offset" was included in the description of the accessory.
- Modified Panel Side Lap distance to work if the SideLap.DAT file is defined, otherwise the value
 is greyed out by default. (A certain manufacturer specifies actual panel width, not cover width
 which is normally used.)
- Fix to "Print Zero Qty Items" caused by multiple system values sharing the same save location.
- Addressed ¼" size difference between GRIM output and sheet size dimensions caused by a 0.001 rounding issue.
- Fixed issue where two co-linear lines were creating a corner offset with corner allowances being applied.
- Amended code for calculating accessories for DownPipes when in feet/inches.
- Modified default values of the Scale/Rotate Image/Model command so that if values are not entered for any particular fields, they are set to 1 and therefore don't create "divide by zero" errors.
- Modified the maximum font index number of fonts that can be read into Roof Wizard from the DXF file format to 2000. This prevents any crashing caused by large font index numbers.
- Resolved issue with not being able to modify the storey of a Barrel Roof.



Scale/Rotate Image/Model

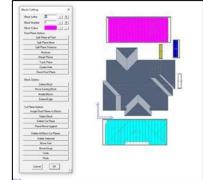
- Fixed issue with ampersand (&) characters not being allowed in XML files. We now read characters like > as > and < as <.
- Modified code to ensure the External and Internal corner allowances for a flashing are not applied to co-linear lines.
- Resolved issue relating to flashing accessories for labour where the value was set to "Not Estimated" and defined as "Labour". The check for the value did not take into account the "Not Estimated" option.
- Fixed issue where specifying an Alternate Category for a fixture would result in the fixture appearing as per normal, but with the labour component missing.
- Fixed issue where 2 co-linear lines on a gable end resulted in multiple roof panels being
 inserted on a single plane. This issue resolved a number of smaller issues and has created a
 much more reliable, albeit slightly slower, way of inserting panels and ensuring they are
 correct each time.
- The calculation of accessories at "Bottom Joined Left End" and "Bottom Joined Right End" line configurations has been modified to provide better calculations for items such as Barge Moulds and other such accessories.



- Fixed issue with the fitting of images in the Section Report so that individual roof planes will now always fit to the image area supplied.
- An issue relating to Roof Panels drawn flat on the screen not changing their panel direction of lay has been rectified.
- Fixed issue with ###ISOROOFDRAWING image produced as it was auto-rotating incorrectly.
- Resolved issue with incorrect calculations of accessories for fascia flashings. Resolved by adding in a check for FASCIA-BARGE and FASCIA flashings.
- Resolved offset roof issues for roof offsets around dormers of a different pitch to the roof.
- Fixed issue of selected Allowance files being selected for Cover > Flashings not being used until
 the Cover > Flashings dialog was re-entered, either by going to the Allowances dialog or by
 exiting out of the dialog and then re-entering.
- Fixed issue of "Fascia As Barge" flashings printing out twice when outputting to a CSV file.
- Resolved issue of the internal Wall Elevation Report crashing when attempting to print.
- Fixed issue were User Defined Line styles (1-4) would sometimes go missing when selecting Cover > Flashings.
- Resolved issue where Bullnose Verandah/Porch planes (Ruled Surfaces) were being deleted when Cover > Flashings > generate was being performed with Stage Manager switched on.
- Resolved issue where Estimate > Linear Nesting would result in panel identifiers appearing in reverse order to the Panel-Lay-Direction arrow.
- Addressed dithering of colours in the output of the Unfolded Wall Report by producing BMP output through a different method.
- Fixed issue with ###WallSectionReport where walls left in an ISO view were outputting in the same way in the report. Code has been modified to ensure the wall is viewed from in-front of the wall, thus ensuring the output is consistent.
- Resolved issue with cutting list for Fabrication Charges being output as a culmination of all fabrication charges for each line item. Also fixed same issue in Word and Excel outputs.

• Fixed issue with Wall and Roof single line flashings where Report Base Flashing option was turning Custom Flashings on and off.

- The finish for Custom Flashings within Assemblies were previously un-set when being selected for a flashing within the Cover > Flashing dialog. This has been amended to ensure any flashings with either a "PAI*" or "COL*" finish (painted or coloured) now take on the default colour, which is now forced as a selection whenever an Assembly is selected under Cover > Flashings.
- Resolved issue where turning roof planes on/off would turn all Block-Cutting Cut-Planes to a single grey colour.



---- END OF DOCUMENT -----