

# Roof Wizard - Version 8.2 Enhancements List



## ENHANCEMENTS

- Version 8.2 sees the improvement of specifying Shingles and Shakes in the AppliCad software. A new Set-Up dialog has been designed to allow entries of information more specific to Shingles and Shakes, as well as an improved method of application through the Cover > Select-Shingle and Select-Shake menu options. As can be seen from this dialog, many of the features specific to Shingles and Shakes have been enhanced and any items specific to Tiles only have been removed to improve the user experience for Shingle and Shake estimators.

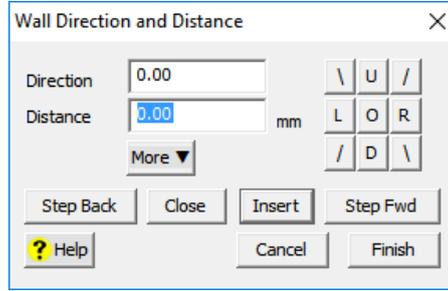
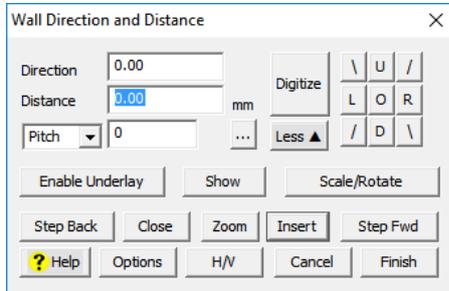
- Customers utilising the GRIM output feature of AppliCad to link the estimation process to downstream systems have often had to create duplicate mappings of labour rates due to the output of variable labour rates in the Roof Wizard software. Outputs such as Ridge (1, 22.5) where the 1 specifies the storey and 22.5 specifies the pitch have had to create multiple mappings for each pitch gradient in 0.1 degree increments. In 8.2, we have provided the ability for each pitch interval to be given as a label (e.g. A, B, C as can be seen in the attached image) with the output therefore being Ridge (1,A), or Ridge (1,B) etc. This greatly reduced the number of mappings required, thus reducing the workload for our users and speeding up the interface between systems.

- In 8.2, we have provided Web Licensing of the Roof Wizard software as standard. All users with internet access will therefore be able to utilise as many licenses as they have available to their organisation, concurrently, from any location. This flexible licensing will work for all our users who have previously had to contact AppliCad to check licenses out when travelling or taking annual leave. The new licensing also provides improved accessibility of the software to all users in your organisation, thus ensuring the right tools are provided to the right resources at the right time.

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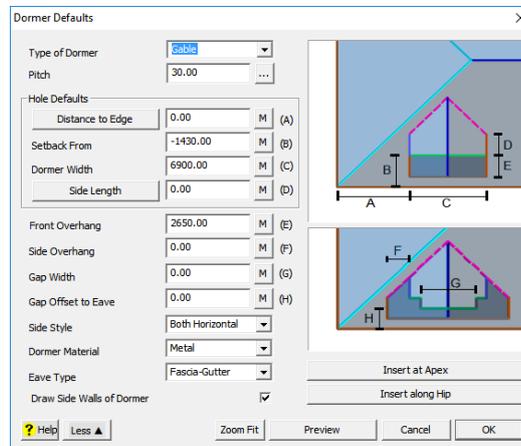
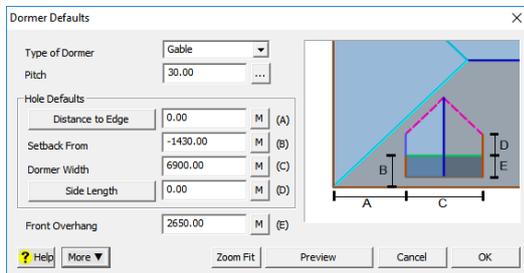


- In 8.2 we've been working hard on ensuring the software is as easy to use as possible, for such a comprehensive estimating solution. For our most comprehensive dialog, Track-Outline, we've provided More and Less buttons to hide the less used functions of the software until you need them. This cleans

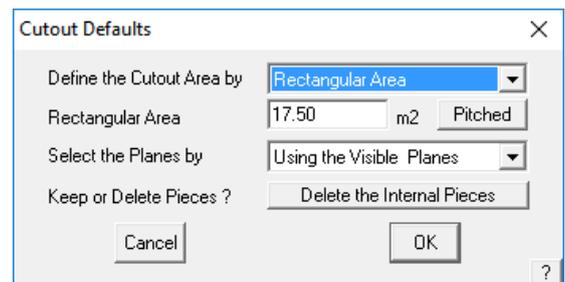


the interface up and provides a simple user experience for first-time users.

- We've done the same for the Mod-Roof > Dormer dialog. The options can be seen here:

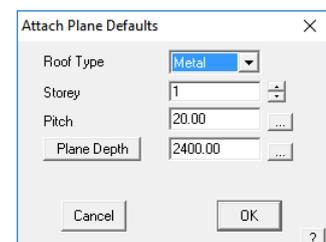


- The Mod-Roof > Advanced > Cut-Out function has been enhanced to allow for the automatic specification of a rectangular cut-out shape of a given area. Once the user has entered the required area, they can then specify whether the rectangular shape area should be calculated on the roof pitch or the flat. Once ok is selected, the user then simply drags the rectangle shape over the required roof plane and the rectangle orients itself on that roof plane based on the roof pitch. Function keys F1 to F4 can be used to make the rectangle wider or higher, depending on the requirements.



This function is going to be of considerable benefit to solar tile specifiers who can calculate an area of a roof to place solar tiles within and have the area maintained and changed to Shingle or Shake plane type so that solar tiles can be estimated at the same time as normal tiles.

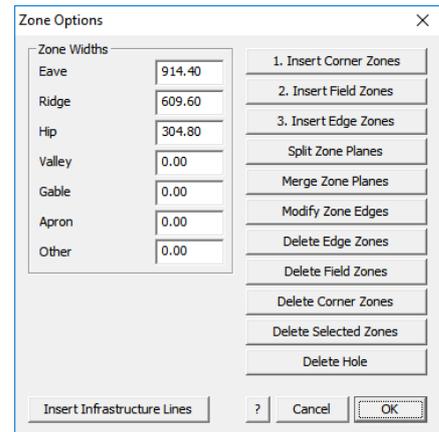
- Modified Attach-Plane defaults to allow depth to be specified. This allows roof planes to be attached to existing planes (such as for a pitch-change modification) with the depth of the new plane being specified rather than the eave height, as previously.



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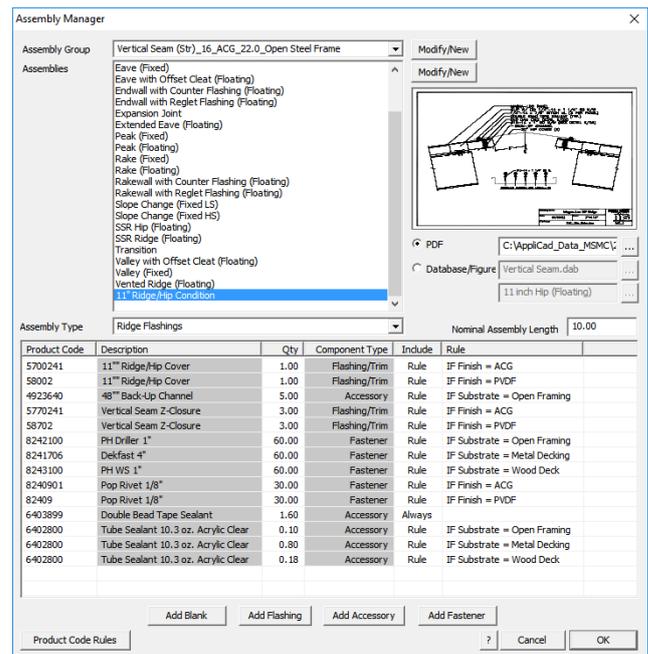


- In versions of Roof Wizard prior to 8.2, the Zone Infrastructure functionality was contained within the Cover > Flashings dialog and access to it only appeared when the user had defined Zones and applied them to the roof. As such, few customers bothered as they were not aware of the additional functionality provided by the Zone Infrastructure dialog. This functionality has been moved to the Zone dialog, thus ensuring customers utilising the zone functionality have a single location to apply all the additional linework they need when setting up zones. Great for re-roofing over the top of an existing roof.



- We've made some substantial improvements to our Block Cutting code:
  - Extending the edge of a block now turns off all other roof lines, making edge lines of blocks much easier to select.
  - Roof planes now maintain their transparency when coming back from Mod-Blocks or Move Existing Block.
  - Block Cut plane edge lines now use the same colour for the plane as the plane edges, thus ensuring plane edges are never hard to see.
  - Fixed crash caused by selecting an already-assigned plane for a block.
  - Added Undo and Redo to placement of legend so undoing this action is much simpler than previously.
  - Added option to turn on or off Block Planes and also to allow definition of blocks in Block-Cutting by selecting a Block-Cut plane (remaining) rather than a roof plane. F1 performs this task.
  - Turned off flashing information for when printing the Block Cut drawing.
  - Added a check to make sure user wants to delete all Block-Cut planes if option is selected. This saves having to re-do a lot of work.
  - Ensured that when going to Modify-Blocks the block-cut planes are turned on.

- Flashing Assemblies in Version 8.2 have been given a further boost by the inclusion of rules for flashing assembly parts that can now be performed on a per-piece basis. Various assembly items can be included, or left out, based on these rules being applied. An example might be to allow for a certain type of fastener if the roof being applied is a of a given material type, or to change the fastener for another roof material. Very powerful for our customers wishing to apply complex rules to their flashing assemblies. We've also added an "Add Blank" command to allow assemblies to be quickly built with the fast insertion of flashings, accessories and fasteners and then the product codes can be entered manually later.



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- The Gable Roof function has been improved to allow the direction of the Gable Roof to be reversed. The benefit of this is for the User to be able to specify the Pitches and Spans on either side of the line inserted, with the direction being specified by the Ridge Start and End locations. A line identifying the Ridge Start and End are now clearly identified on the screen also.



- In Version 8.1, we rolled out the ####RoofImage key text string in our reports to allow users to turn on and off what they wanted to appear in their Microsoft® Word™ and Excel™ reports. As soon as we had done this and released 8.1, we had a groundswell of support to provide the same for Wall reports. So, we've included ####WallImage in version 8.2, with the following capabilities:

- 1 – Display the Wall Plane Shading (1 = On, 0 = Off)
- 2 – Display Wall Panels (2 = On, 0 = Off);
- 4 – Display the Wall Dimensions (4 = On, 0 = Off)
- 8 – Display the Wall Line Types (8 = On, 0 = Off)
- 16 – Display Flashing Annotation (16 = On, 0 = Off)
- 32 – Display Wall Battens/Purlins (32 = On, 0 = Off)
- 64 – Display Wall Section Details (Reserved for Later Use)
- 128 – Display Wall Plane Areas (128 = On, 0 = Off)
- 256 – Display Overall Dimensions (Reserved for Later Use)
- 512 – Display Automated Wall Plane Labels (512 = On, 0 = Off)
- 1024 – Display Automated Wall Plane Labels including Windows & Doors (1024 = On, 0 = Off)
- 2048 - Display Automated Window & Door Labels Only (2048 = On, 0 = Off)

- Wall planes can now have their areas dimensioned, by selecting the Dimension Area tool under the Check Icon menu.

- Addition of User-Defined CAD and Microsoft® Word™ and Excel™ reports into the Roof Wizard software has been made much simpler by the inclusion of an Add/Edit button on the Tools > Edit-Templates dialog. The new functionality permits the user to enter the name of the new report as they'd like to see it appear in the software and then search for the template file matching this report. Options are provided for Drawings and Reports to be specified, as well as for the searching of Word™ and Excel™ templates or CAD figures within RoofWiz.DAB.

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- Added New Tech Machinery output format for their new NTM100 rollformer controller. This allows Roof Wizard and New Tech Machinery customers to output cutting lists directly to the onsite rollformer, thus greatly reducing the time it takes to produce panels for installation on site.



- Changed the function of drop-down combo boxes within Roof Wizard so that double-clicking on a drop-down combo box automatically drops the list down for selection by the user. Once a selection is made, the cell of the dialog automatically closes, in the same way that selecting the <TAB> key did previously. This improvement speeds up the data entry and will make entry of new items, such as Extras, much faster.
- Added new options to the Set-Up > Preference Settings > System-Preferences dialog that will greatly improve the speed, configuration and usability of the software for a number of users. The new switches perform the following functions:

- Allow the display or hiding of on-screen tooltip hints (on by default)



- Allow the software to search the "Corporate Folder" prior to the "User Folder" when looking for databases, models, CSV files etc. This function will allow the user to copy a number of "Corporate Default Settings" to the Corporate folder and by setting this switch to Yes, will ensure these options are found by the software before being located in the User folder. Thus, Corporate Standards will be able to be maintained more easily while still allowing other settings to be set by the user.



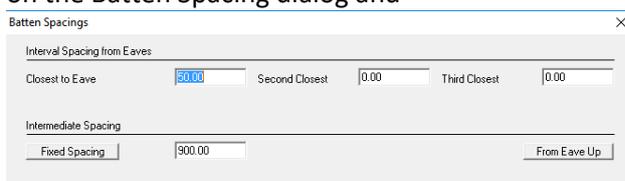
- Added option to "Copy DABS Locally" which will result in database files being copied to the local machine before being read by the software. This switch can improve database read and write speeds across slow WAN and LAN networks.



- The "Use Interval Labels for Labour" allows the output of labels set up under Set-Up > Metal/Tile Pay Rates Variable > Intervals to be displayed in the Labour dialog of the Costing > Supply&Install dialog and also to be output in the GRIM file exported.



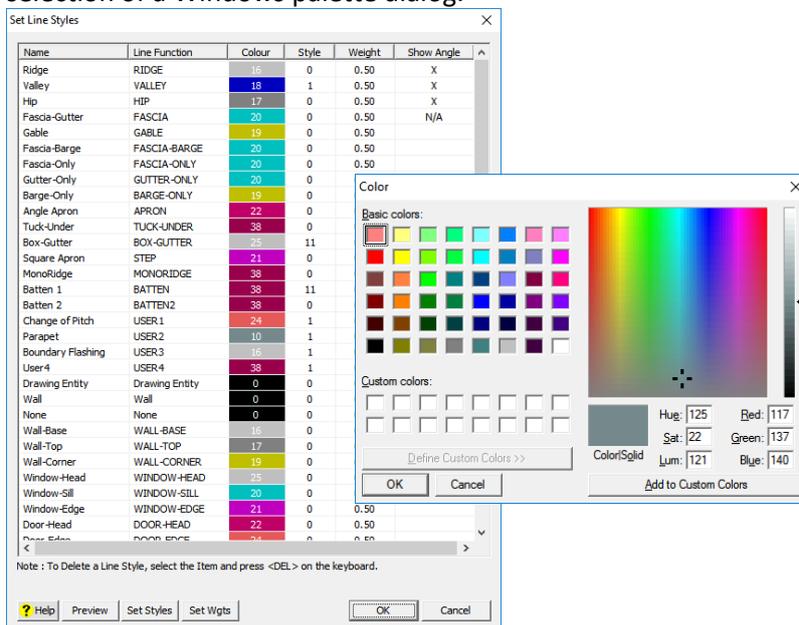
- Added ability to space battens/purlins from top down, rather than the bottom up. This option is provided on the Batten Spacing dialog and



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- Added new coloured icons to the Roof Wizard software to make the icon menu easier to understand and faster to load. Icons are now only searched for in the AppliCad Programs folder and given that this is always a local folder, they should be much faster to load and render than previously when they may have been read over a thin LAN or WAN connection.
- Added a new Line Style definition dialog in 8.2 that not only allows for much easier modification of line styles, but also permits line styles (dashed styles) and line weights (thicknesses) to be modified en-masse. We've also augmented the colour selection dialog to include a "Define" option that allows you to create your own colours via selection of a Windows palette dialog.



An additional improvement to the Set-Line-Styles dialog is the "Show Angle" option that permits the display of a "bend angle" for flashings generated. If, for instance, the user were to set the flag for "Show Angle" for the RIDGE line function, then these lines will display the obtuse angle between roof planes, thus identifying the bend angle for flashing manufacturers.

Function	First	Second	Total	Show
Roof Volume cu m	487.40	578.55	1065.95	...
Roof Area sqm	426.98	478.66	905.64	...
Curve Quality Area sqm				
Ridge Length m	0.83	0.52	1.35	...
MonoRidge Length m				
Hip Length m	57.30	61.19	118.49	...
Valley Length m				
Fascia-Gutter Length m	80.14	84.84	164.98	...
Gutter-Only Length m				
Fascia-Only Length m				
Gable Length m				
Fascia-Barge Length m				
Angle Apron Length m				
Batten 1 Length m				
Batten 2 Length m				
Box-Gutter Length m				
Square Apron Length m				
Change of Pitch m				
Parapet m				
Boundary Flashing m				
User4 m				
Shell Ends	4.00	4.00		
Hip Apexes	2.00	2.00		
Barge Apexes				
Barge Top Internal				

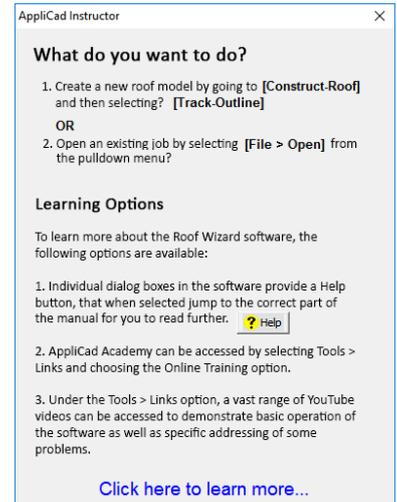
- Added a new scroll-based Display Tally dialog that permits the display of all existing Line Lengths and Areas as per the previous dialog, but in a much more compact format. This new dialog allows the user to scroll effortlessly between various stories and now includes a "Change Linetype" button to allow the user to modify any incorrect linetypes from the same dialog, without the need to change commands.



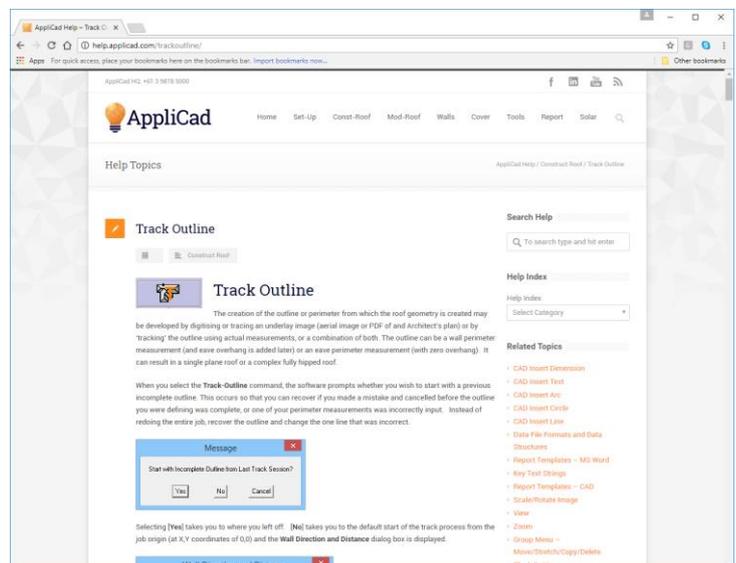
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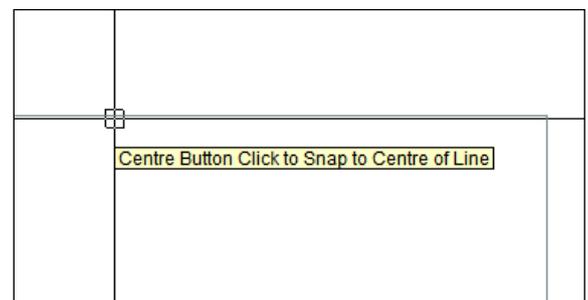
- A new Instructor dialog has been created for 8.2 that provides prompts to users to assist with use of the software, as well as to highlight some of the lesser known features of the software. The Instructor dialog is a modeless dialog, meaning that it remains in whatever position you put it, as long as the Roof Wizard software is open. It can, of course, be hidden, but it is intended to remain present to lead new and existing users through the software and provide assistance as a user progresses through their use of the software.



- All AppliCad Help has now been set to display through our new Help Portal entitled <http://help.applicad.com>. This portal will not only provide linkages between the existing “?” buttons on each dialog, but also from the link at the bottom of the new Instructor dialog boxes. Being online, the help files will be much easier for AppliCad to maintain and will also provide the benefit of additional links being provided to YouTube videos, help tutorials, [www.roofestimating.com](http://www.roofestimating.com) (our online estimation service) and [academy.applicad.com](http://academy.applicad.com) (our online training option).



- Added options to snap to the end and centre of a line using the centre mouse button. Snapping to ends of lines was always available, but software now “jumps” to a line endpoint to assist users in locating the pick box over the required point. In addition, if the user holds down the <SHIFT> button, the option will be provided to snap the line to another line at the centre-button digitised location.



- The display of the Status line in the software has been modified to allow for both Simple (standard) and Complex modes. The Complex mode is a return to a previous format, as requested by some of our longer term users who relied on information provided in this display.

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- Added Undo/Redo to the Remove Cover/Annotation Delete-All dialog to prevent users losing work by inadvertently and quickly clicking through the dialog without paying attention to what the dialog was asking them. The Undo now allows for a simple one-click recovery of the information deleted.
- Added all available Roof Wizard Line types to Draw-Freehand option under Smart-Lines.
- Modified the Costing > Supply&Install dialog to allow for the display and modification of the Labour and Material Mark-ups by the user. While the software still reads the default values from the Set-Up menu options, the percentages can be changed and their totals displayed here. In addition, we have also provided totals for each line item to the right, and a cost per unit area option for both Materials and Labour, to assist our customers to understand their estimating pricing against the roof and wall areas.

Labour		Materials		Totals	
Labour SubTotal	639.86	Material SubTotal	1769.32		2409.18
Labour MarkUp 15.0 %	95.98	Material MarkUp 12.0 %	212.32		308.30
Labour Total	735.84	Material Total	1981.64		2717.48
Cost per m <sup>2</sup>	2.18	Material Cost per m <sup>2</sup>	5.87		8.04

- Created a new Cover > Flashings dialog to permit the selection of flashings in a faster manner and to allow for additional flashing types to be added in the future. A Change-Linetype button has again been added to this dialog to allow any incorrect line types to be modified as part of the Cover > Flashings process. A “Define Flashing” button has also been added to allow users to change flashings also as part of the Cover > Flashing process, without the need to exit the dialog and revert to the Set-Up > Flashings option. Once flashings are generated, fasteners are now also displayed as part of the generation of flashings, thus allowing users to check these before getting to the Costing > Supply&Install stage.

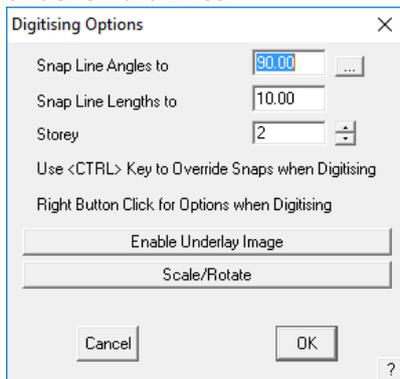
The screenshot shows the 'Select/Generate Roof Batten & Trim' dialog box with the 'Flashing Cutting List Summary' sub-dialog open. The main dialog has a table for selecting roof components and buttons for 'Generate', 'Flashing Sets', 'Colour Set', and 'Define Flashing'. The sub-dialog lists various flashing materials and fasteners with their respective quantities and codes.

Name	Code	Qty
Total : 152000		
Gutter Lysaght,Hi-Front Quad Slotted Gutter 115mm,,QGHF115**		
19/8000		
Total : 152000		
Batten 1 Stramit Battens,Mc Jones 40 mm Zinc Batten 6100 mm,Zinc,SuperLoc40		
100/6100		
Total : 610000		
Batten 2 Stramit Battens,Mc Jones 20 mm Ceiling Batten 6100 mm,Zinc,Superloc20		
100/6100		
Total : 610000		
Accessories		
-----		
Name	Code	Qty
External Corner (90°)	FBECX---	10.00
Internal Corner Cap (90°)	FBICX---	4.00
Fascia Barge Corner LEFT	FBBCX---	2.00
Fascia Barge Corner RIGHT	FBBCRX---	2.00
Rafter Bracket (Gal)	FBVRBIGA	163.52
Quad Stop End LEFT	QGHF115SE**	2.00
Quad Stop End RIGHT	QGHF115SE***	2.00
Quad Overstraps (Zinc)	QGHF115SOS	87.74
Spring Clip (Zinc)	NFSC	110.91
Quad External Corner 90 deg	QGHF1152PCEC**9	10.00
Quad Internal Corner 90 deg	QGHF1152PCIC**9	4.00
EXTRA CHARGE (-)	DELIVERY	0.08
Fasteners		
-----		
Name	Code	Qty
Ridge M6 -11 x 65mm	M61165CB	70.000
Ridge M6 -11 x 65mm	M61165CB	338.200
Valley 12x65	BHFP1265HT17	179.830
Fascia 12 -11 x 40mm	121140	912.000

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- A new feature has been added to Flashing Annotation text to allow the text to be moved and this location will be remembered when the flashing is re-generated into the future. Previously, any moved text had its position reset by the software and this could result in a large amount of text manipulation being lost if the user encountered any errors with the flashing annotation such that it required a re-generation.
- Added a new feature to allow the user to define the default storey for a line drawn using Draw-Freehand under Smart-Lines.



## SMALLER ENHANCEMENTS

- Added new Project Walls option to allow walls to be projected down to a lower roof section.
- Ensured all dimensions inserted are placed on the right layer and to the appropriate colour, as specified under Dimension Defaults.
- Fixtures now have their layers modified based on the storey of the roof they are installed on. A fixture installed on a single storey roof will therefore be on Layer 11, with a second storey fixture on Layer 21. This ensures fixtures turn on and off with their respective storey.
- Added Wall Batten Labour into Fixed Labour Rates dialog.
- Added ###SmallSupplyStr to display either "supply only" or "supply and installation" depending on which dialog box the user comes from when printing.
- Added double rubber-band lines for Pl-Edge-Add-Poi in Smart Lines.
- Added "Find Text" option into Tools Check command so that we can find text on panels, flashings etc.
- Unlocked remainder of all Tools > Check items for all customers.
- Added GRIM Output Folder to the System Preferences dialog.
- Changed software so that it only dimensions pitches for roof planes that are turned on. Also, doesn't try to dimensions non-roof planes. Also modified software so that it always dimensions a pitching plane, without the need for a horizontal line.
- Modified Extend-Barge so that a positive number is always out of the plane, and a negative number is always into the plane.
- Modified Tools > Cha-LineType so that once you double-click on one line, you can then go and select other lines of the same type. Command stays in the loop until finished now which makes it much faster to use.
- Added a prompt to inform the user when all Drawings have been printed as it wasn't as obvious as it could have been that the software had completed printing all Drawings.
- Added bolding into the header of all tables.
- Added ###FlashingTable2 key text string, providing underlined headings, removal of product code and finish, changed PIECES to EA and rounded angle to nearest degree.
- Changed ###LI string search to not only look for the whole category, but now to search for a substring within the category also.

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- Modified flashing output so that it moves the flashing text by the same amount as the dimensions and will colour the flashing text if set for dimensions also.
- Added ####SectionReport4 key text string to include section numbers.
- Modified overall dimensions so that if Zones are present, it ignores USER1-4 lines, as these may be in the corners and could make dimensions quite overcrowded.
- Zones added to ####RoofImage[] as value 8192.
- Added Zone option to Change-PlaneType.
- Added a new output for RXF that includes Arcs and Ruled Surfaces. For now, this new format is entitled Chouinard after the customer who requested the change.
- Added new option under Estimate > Allowances that allows users to turn off automatic tallying for larger jobs or for specific panel types.
- Modified line drawing routines in the software as they are used extensively and a slightly faster option was available.
- Added new commands to the software to improve the speed of the Solar processing.
- Added Centre alignment for tables by adding 500 to the column width specified in TableFormats.CSV.
- Modified Divide Lines functions in Smart-Lines so that you can now perform the division with the planes left on.
- Added option to remove Z component of two points measured when you select "m" at the end of Hor, Vert or Resultant entries for Hor/Vert command.

## ISSUE RESOLUTIONS

- Ensured the </APPLICAD\_EXPORT> tag was included with non-Xactimate output.
  - Fixed issue reported by customer regarding tallying wall panels crashing. Was caused by too many short sheets. Increased value to 5000.
  - Added automatic removal of zero length lines from the outline for the roof track.
  - Removed code added for customer as it was creating havoc with other customers with regards Barge Flashings being included in Fascia/Barge and Gable stages.
  - Removed Downpipes from plane collection function so that they don't get accidentally pitch or area dimensioned.
  - Changed reading in of Assembly Groups so that case is no longer a differentiator between product codes.
  - Fixed issue where using the middle mouse button to scroll the screen while measuring a distance could result in an incorrect distance being measured by the software when scaling.
  - Fixed issue for ####SarkingJobCost and some other Sarking Key Text Strings not displaying due to category being changed to Underlay.
  - Fixed issue for CAD templates for multiple ####LI Key Text Strings not working properly within single string and also added in TOT, DISC, SUB for ####LI Key Text Strings.
  - Changed number of profiles that could be stored in a dialog from 100 to 200 to fix customer issue.
  - Fixed interminable loop created sometimes when doing an Intersect Planes, depending on geometry.
  - Added Key Text String ####CostingDetailsTable4 to include the discount amount rather than the sub-total.
  - Forced closing of Word application as it seemed to keep control of the template file, thus causing a second estimator running from the same folder to crash.
  - Fixed issue with area dimensioning on curved roofs crashing.
  - Fixed output of custom profiles where the length was being truncated to 25 characters.
  - Fixed issue for Fascia and Gutter Internal and External corners not saving away allowances.
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- Fixed reading in of Solar Insolation TMY3 files, allowing up to 2048 character widths. Also added in a prompt displaying that the file is reading in and displaying the line number, so user is aware of progress.
  - Fixed ####LI so that it is no longer case sensitive, as well as adding in an \_COL option to output colour. Also fixed issues for missing ####FasciaCol and ####GutterCol information.
  - Fixed issue for customer where <ARCS> XML label was missing despite </ARCS> existing.
  - Made sure that “panel lengths” > “max length” does not return 0 when reading next stock length. Will only be max length from now on.
  - Set dimensions to true so that pitch dimensions appear again on ###RoofImage[16] output.
  - Modified SaveAs function to repeatedly attempt and report errors if it fails to save.
  - Modified Custom Flashing sizing dialog to provide a better positioning of the preview image.
  - Defaulted minimum cost for Custom Profiles to the lowest value, even if it's smaller than that. This way, we'll always get a value, rather than 0 if it's not found.
  - Fixed crash in Open-Thumbnails that was caused by incorrect database name in the ThumbNI.DAT file.
  - Modified Pitch dimensions to use the correct Roof Storey (16, 26 etc.) as well as the new dimension Colour.
  - Modified the Flood-Fill command so that it properly specifies the storey of the plane inserted as per the dialog.
  - Added Fixture selection into the Change-Storey option as they should now be able to have their storeys modified.
  - Removed Supplier from ####QGList, as per customer request.
  - Fixed wall labour for fixed and variable rates as well as adding in Wall Batten Labour for both.
  - Modified code to make Downpipe Accessories as “D Access” again, unless an alternative category is specified.
  - Added display of Quote Groups back into the QG dialog under Supply & Install.
  - Modified code so that you can't select OK off the dialog box if the OK button is disabled.
  - Tracked down bug found by customer where the outline wouldn't draw for some reason.
  - Fixed issue with labour not tallying correctly for Sheet Accessories.
  - Added new functionality ####QGList for customer to display just the elements in each Quote Group - using Description.
  - Fixed issue with accessories for Top and Bottom Corners loading multiple times when Single-Line flashings added.
  - Modified the saving of BMP images from the clipboard to JPG's so you can now zoom in almost infinitely.
  - Modified Order Form printing so that we don't write out a cutting list for "Split Each run into Stock Lengths Pieces" estimated parts.
  - Changed default Scaling Option to "Whole Model & Image" rather than what is was set to previously.
  - Modified code so that Nett-Rates Costing dialog remembers which rate file was selected.
  - Added Auto-Save for Drawings, as per customer request.
  - Fixed issue where coursing calculation for tiles, shingles and shakes wouldn't work if line types weren't properly defined.
  - Fixed issue with CustFlashRates.CSV not working properly if there weren't at least 2 values less than the girth being searched for.
  - Turned on flashing of point for "Split Plane Distance" as well as ensuring that the command doesn't continue to split repetitively if you abort out of the question to do so.
  - Added NONE into Track-Plane for re-inserting planes.
  - Fixed issue where Fascia, Gutter and Gable flashings wouldn't generate properly when selected into an individual Stage.
  - Provided additional error checking when sheet length < 0 or > 10,000,000mm.
  - Fixed split of panels to put plane and text on the correct layer.
  - Ensured User1 - User4 print their lengths properly on a Quantity Report as reported by customer.
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- Fixed issue reported by customer where wall waste would sometimes report as negative.
  - Fixed customer issue with labour items for Downpipes not translating properly to S&I dialog.
  - Fixed customer issue of line items going missing from Labour dialog when selecting Load of an existing quote.
  - Fixed issue for customer for fasteners for wall cladding using the wrong estimation method/price.
  - Added in WallImage processing code as well as modifying CAD Template processing of ###LI\_ items so that it doesn't make text all uppercase.
  - Changed length inquiry within software so that wall lines dimension properly in 3D.
  - Changed cropping of imagery for Word and Excel documents so that it only crops Plan View images.
  - Added a brief delay into double-line clicking as sometimes it would auto-abort out of change linetype.
  - Moved GRIM import so that the scale of the drawing is set AFTER the GRIM file is read in.
  - Fixed issue where some planes don't produce a direction arrow for Pitches as they didn't have any flat lines or if they did, they were very small and hard to see.
  - Fixed issue for wall dimension lengths being multiplied by pitch when drawn flat. Also, allowed flat walls to be dimensioned by area.
  - Changed code for tallying and combining short sheets so that they take into account whether there is a rounding amount. Prevents getting incorrect summing of short sheets on the Section Report.
  - Fixed issue where deleting Downpipes could crash the software.
  - Changed code so that you can still open files when in Read-Only mode.
  - Removed auto-save of NettFlashing creation so that customer doesn't have issues with saving of databases when using Stage Manager in Supply & Install.
  - Fixed issue with ###SectionReport that caused crash.
  - Removed l/f and l/m etc. suffixes from ###PanelLens etc. so that users can add them to %CALC calculations.
  - Changed ###NettQuantitiesTable strings for CAD, Word and Excel such that the software uses user defined names for each linestyle, rather than the default as previously.
  - Fixed issue with Xactimate output hanging due to hole deletion creating new plane each time.
  - Fixed issue with Wall Panels not splitting correctly.
  - Fixed issue where number of boxes of membrane fasteners was not rounding up but rather truncating. So, for box sizes of 1000, if only 800 fasteners needed the value was 0, should have been 1.
  - Fixed issue where output of CSV file from Tally-Quants reported Batten2 qty as Batten qty.
  - Costing Plus removed.
  - Changed Maximum number of Flashing Types per job up from 25 to 200. This is due to us also including the flashing angle between roof planes now also as standard, so this increases the number of unique flashing records per job.
  - Fixed issue where planes were being drawn inside out. This manifested itself when battens were inserted into a plane with a hole in it.
  - Fixed issue where Extra Quantities were only tallying for estimation methods such as "Spaced Along Ridge" for first storey totals, not whole roof totals.
  - Changed flashing code so that the processing of individual lengths only goes through the whole list of elements once, rather than going through the whole list each time for each line type.
  - Fixed error with Measure Pitch function where one axis was still incorrect.
  - Added code to read in a different version of the People File from past versions.
  - Ensured that Tile Accessories with colour take on the same colour as that selected for the tile.
  - Ensured if table addition in a report fails, the Key Text String gets replaced with nothing so that the software doesn't loop interminably.
  - Added new function to determine maximum panel length in the model.
  - Modified Split-Panels so that it now queries the longest panel in the job as the default value for length but allows you to query the defined Max. Panel Length still.
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# Roof Wizard - Version 8.2

## Enhancements List

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- Modified the Minimum Panel Length functionality to work properly for Combine for Minimum Lengths and Combine for Maximum Lengths.
  - Changed default for Tile Accessory Estimation method from 16 to 17 for Apex as this is where it is now.
  - Changed status line redraw code so that the update of the Database/Model names ALWAYS occurs.
  - Ensured text, sub-figures and circles only zoom fit if the entities themselves are visible. Used to zoom to extents of text, for instance, whether the text was visible or not.
  - Added bounds checking for when lists for metal panels go astray.
  - Removed "Unable to save/restore old state of APPL/software from disk" error. Won't appear anymore and also removed whooshy.tmp file.
  - Modified code so that rotation of underlay images is 90 degrees for ISO view.
  - Removed deletion of Windows Resource handle when printing as this was causing a crash after Windows 10 update when printing filled planes.
  - Commented some code out of DWG writing so that it now works again, instead of crashing.
  - Added check to prevent non-plane lists from crashing the software.
  - Upped maximum number of strings in a scroll control from 1000 to 2500.
  - Fixed issue where non-fractional inches were not working in the software.
  - Removed clear function for when a database doesn't read in correctly. This allows partial database reading rather than the whole thing being discarded.
  - Fixed decimal issue where if no foot number specified, then it wouldn't work properly with the inch fraction alone.
  - Added space between feet and inch markers when no whole inches exist.
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