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Reporting Key Text Strings (KTS)

The following pages are a summary of all the available key text strings for creating or editing your templates. They are a very powerful tool that allows you to create the output from Roof Wizard that suits your requirement EXACTLY – (Current to V8.3 and up) Maybe refer back to this page ocasionally, we are adding new KTS's occasionally, allowing more creative ways to enhance your reporting abilities.

The following key text strings are available for use on reports and drawings you create. Be aware that some may be designed to work specifically with MS Word and Excel templates and as such, cannot be used in the CAD templates, and vice versa. Also note that **most of these KTS's are case sensitive**, especially when used in Word or Excel.

You will occasionally see key text strings that appear to do the same thing
such **###Today** and **###TodaysDate** or **###CompName** and **###CompanyName**. Don't panic, they do the same thing. They have been developed for use in different parts of the software.

Do not use spaces in the key text strings. A hyphen or dash '-' is acceptable where indicated for use with quote groups.

Company Key Text Strings

Key text string	*Description*
###Compname	Company name
###Compadd1	Company address line 1
###Compadd2	Company address line 2
###Compfax	Company fax
###Compnotes	Company notes – shown as 'Note 2' on Company Info dialog box
###Compphone	Company phone
###CompACN	Company number – shown as 'Note 1' on Company Info dialog box
###CompABN	Company Business Number
###CompNote1	Note 1 for Company Header – to add slogans etc to letter head
###CompNote2	Note 2 for Company Header – to add slogans etc to letter head

Job Key Text Strings from [Job Info > Job Details] dialog

(Note that a tool exists to customise the Job Details input screen which will result in different labels for fields in this dialog box if changed. The key text string will still refer to the same name for that field in the dialog box, even if the function or purpose changes.)

Key text string	*Description*
###Jobnumber	Job number
###Joborder	Order number
###Jobdelarea	Job delivery area
###Jobpickupdate	Job pick up date
###Jobquote	Quote number
###Jobadd1	Job address line 1
###Jobadd2	Job address line 2
###Jobadd3	Job address line 3
###Jobinstaldate	Job installation date
###Jobdeldate	Job delivery date
###MapRef	The job map reference from [Job Info > Job Details] dialog
###WindZone	The windzone string
###RoofType	The roof type string
###JobType	The job type string
###JobTerm	The job payment term string

—

###JobAddress1	Job address line 1 (Legacy Text String – use ###Jobadd1)
###JobAddress2	Job address line 2 (Legacy Text String – use ###Jobadd2)
###JobAddress3	Job address line 3 (Legacy Text String – use ###Jobadd3)
###JobCostTotal	Job cost total including tax (Legacy Text String)
###JobNo	Job number (Legacy Text String – use ###JobNumber)
###JobTotal	Job total (Used by 'Nett Only' reports – for everything else use Costing Strings, described below)

People Key Text Strings

Key text string	*Description*
###Custname	Customer's name
###Custaddress1	Customer's address line 1
###Custaddress2	Customer's address line 2
###Custaddress3	Customer's address line 3
###Custfax	Customer's fax
###Custconname	Customer's contact name
###CustContact	Customer's contact name (Legacy Text String – now redundant)
###Custphone	Customer's phone
###Custmobile	Customer's mobile
###CustDiscount	Customer discount as set, may be different for each customer
###CustABN	Customer's business number
###CustEmail	Customer's email address
###CustWeb	Customer's web site address
###Image[CustLogo.jpg]	Customer's company logo – requires logo to be saved in the ..\User folder with the name CustLogo.jpg in Jpeg format.

—

###Buildername	Builder name
###Builderaddress1	Builder address line 1
###Builderaddress2	Builder address line 2
###Builderaddress3	Builder address line 3
###Builderfax	Builder fax
###Builderconname	Builder contact name
###Builderphone	Builder phone
###Buildermobile	Builder mobile
###BuilderABN	Builder business number
###BuilderEmail	Builders's email address
###BuilderWeb	Builder's web site address

—

###Installername	Installer name
###Installeraddress1	Installer address line 1
###Installeraddress2	Installer address line 2
###Installeraddress3	Installer address line 3
###Installerfax	Installer fax
###Installerconname	Installer contact name
###Installerphone	Installer phone

###Installermobile	Installer mobile
###InstallerABN	Installer business number
###InstallerEmail	email address
###InstallerWeb	web site address
—	
###Distribname	Distributor name
###Distribaddress1	Distributor address line 1
###Distribaddress2	Distributor address line 2
###Distribaddress3	Distributor address line 3
###Distribfax	Distributor fax
###Distribconname	Distributor contact name
###DistribContact	Distributor contact name (Legacy Text String – now redundant)
###Distribphone	Distributor phone
###Distribmobile	Distributor mobile
###DistribABN	Distributor business number
###DistribEmail	Distributor email address
###DistribWeb	Distributor web site address
—	
###Salesname	Sales name
###Salesaddress1	Sales address line 1
###Salesaddress2	Sales address line 2
###Salesaddress3	Sales address line 3
###Salesfax	Sales fax
###Salesconname	Sales contact name
###SalesContact	Sales contact name (Legacy Text String – now redundant)
###Salesphone	Sales phone
###Salesmobile	Sales mobile
###SalesABN	Sales business number
###SalesEmail	Sales email address
###SalesWeb	Sales web site address

Roof Geometry Key Text Strings

The following strings define the combined geometric values for the roof or roofs in the current job.
Note: All strings indicated with a ***** allow for a **prefix to report individual storeys** as shown below in the example for ###RoofArea. Without the prefix, the total area is reported.

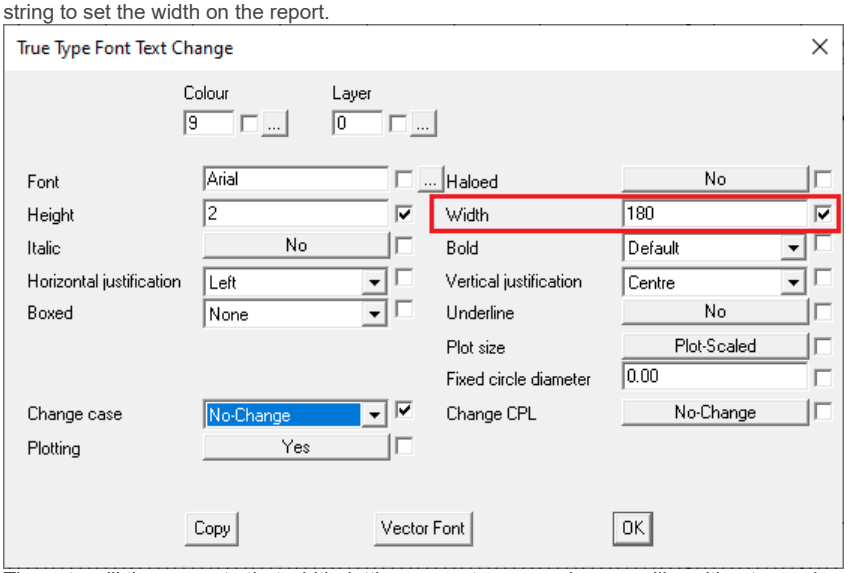
###nCeilingArea *###CeilingArea for the total ceiling area
###1CeilingArea for total area of 1st story
###2CeilingArea for total area of 2nd story
###3CeilingArea for total area of 3rd story etc.

Key text string	***Description***
###nRoofArea *	###RoofArea for the total roof area ###1RoofArea for total area of 1st story ###2RoofArea for total area of 2nd story ###3RoofArea for total area of 3rd story etc.
###FlatArea	The total area of flat roof (zero pitch)
###RidgeLen *	The total ridge length

###HipLen *	The total hip length
###ValleyLen *	The total valley length
###FasciaLen *	The total fascia length
###GutterLen *	The total gutter length
###BargeLen *	The total barge length
###FasciaBargeLen *	The total fascia as barge length
###ApronLen *	The total apron length
###BoxGutterLen *	The total box gutter length
###StepLen *	The total length of step flashing
###FasciaOnlyLen *	The length of lines tagged as fascia-only
###GutterOnlyLen *	The length of lines tagged as gutter-only
###NumStoreys	Shows number of storeys in the model
###NumUnits	Units of measure used
—	
###ShellEnds *	The number of shell ends
###Apexes *	The number of apexes
###BargeApex *	Number of barge apex points
###BattenLen	The total batten line length – tile battens and metal roof battens/purlins.
###Batten2Len	The total batten 2 line length
###BargeBotLeft *	Number of connected barge bottom ends on the left hand side (the bottom of a barge line connected to a fascia as in the bottom of a gable end, or the bottom of a rake line on an atrium)
###BargeBotRight *	Number of connected barge bottom ends on the right hand side (the bottom of a barge line connected to a fascia as in the bottom of a gable end, or the bottom of a rake line on an atrium)
###BargeTopInt *	Number of connected barge top ends forming an internal corner
###BargeTopExt *	Number of connected barge top ends forming an external corner
###BargeFreeBotLeft *	Number of unconnected barge ends at the bottom left
###BargeFreeBotRight *	Number of unconnected barge ends at the bottom right
###BargeFreeTopLeft *	Number of unconnected barge ends at the top left
###BargeFreeTopRight*	Number of unconnected barge ends at the top right
###StopLeft *	Number of gutter stop end left
###StopRight *	Number of gutter stop end right
###Int90Cnr *	Number of gutter internal 90 corners
###Int135Cnr *	Number of gutter internal 135 corners
###Ext90Cnr *	Number of gutter external 90 corners
###Ext135Cnr *	Number of gutter external 135 corners
###ChimneyQty	The number of chimneys set in Supply and Install > Labour
###EaveOHG	Eave overhang or offset amount
###VergeOHG	Verge overhang or offset amount
###GableOHG	Verge overhang or offset amount (same as VergeOHG)
###Pitch	The pitch of the roof – if all your jobs are a single pitch.
###MultiPitches	Used to display all roof pitches – used when you might have lots of different pitches on the same job.
###EaveOffset	The eave offset
###EaveHeight	The eave height
###RafterCentres	The rafter spacing (Redundant Text String – use RafterSpace)
###RafterSpace	The rafter spacing
###Battensz	The batten size
###TotCnr	Total number of corners
—	
###NumRoofPlanes *	Reports total number of roof planes in a model
###NumEaveHeights *	Reports total number of eave heights in a model
###NumRoofPitches *	Reports total number of different roof pitches in a model
###NumRoofHoles *	Reports total number of holes in roof planes in a model
###NumRoofBargeLine*	Reports total number of barge-lines in a model (a.k.a. gable or eave transition or rake)

General Key Text Strings

Key text string	*Description*
###Supply	If you selected Costing Supply-Only, then this string is exchanged for “For the supply only of …” If you selected Costing Supply-Install, then this string is exchanged for “For the supply and installation of …” It is assumed that the material breakdown follows on the form. If the Labour Total is zero, the software will automatically say Supply Only. If it has any value in it, then the software will automatically say Supply and Install.
###SmallSupplyStr	If you selected Costing Supply-Only, then this string is exchanged for “.. supply only …” If you selected Costing Supply-Install, then this string is exchanged for “.. supply and installation …” It is assumed that the material breakdown follows on the form. If the Labour Total is zero, the software will automatically say Supply Only. If it has any value in it, then the software will automatically say Supply and Install.

###QQnote	This is the note specific to each form. To allow the note to format properly, you set the width field of the text entity to the physical width you want the text to run to. You set this by going to [CAD > Text > Change > Width], then select the QQNote key text string to set the width on the report.  The note will then wrap to that width, letting you enter as much as you like without worrying about formatting. QQNote allows for up to 1997 characters in each note for each report.They are stored in an array of 500 in size, which means you could have notes for 500 reports.To force a carriage return to wrap the text to a new line, use the ^ character in the text string. (The use of ^ relates for use with CAD templates only.)
###Discount	Discount rate on quote
###TotalPages	Total number of pages
###Page	Writes “Page xx of yy” where xx is the current page and yy is the total number of pages
###EstNum	The job quotation number (Legacy Text String – now redundant)
###PurchaseOrder	Purchase Order number as specified in the job details dialogue
###Profit	Job margin or job profit – quotation sell price minus job cost (RoofMaster program only)
###Todaysdate	Today’s date (Redundant Text String – use ###Today)
###Today	Today’s date
###Time	Time quote printed
—	
###RoofDrawing	Inserts a drawing of the roof onto a Word template at a known scale (it is recommended that ###RoofImage[n] be used instead of this string due to a Windows EPS filter bug – FAQ refers).
###UnscaledRoofDrawing	Inserts a drawing of the roof onto a Word template to best fit with constrained proportions
###(n)RoofDrawing	Inserts a drawing of the specified storey of the roof onto a Word template at a known scale (Where ‘n’ is the number of the storey – no brackets) – (it is recommended that ###RoofImage[n] be used instead of this string due to a Windows EPS filter bug – FAQ refers)
###(n)UnscaledRoofDrawing	Inserts a drawing of the specified storey of the roof onto a Word template to best fit with constrained proportions (Where ‘n’ is the number of the storey – no brackets) – (it is recommended that ###RoofImage[n] be used instead of this string due to a Windows EPS filter bug – FAQ refers)

###IsoRoofDrawing	Inserts an isometric view drawing of the roof onto a Word or Excel template to best fit the box with constrained proportions. Note that this key text string is case sensitive.
###RoofImage[n]	Inserts a roof plan drawing into a MS Word report – refer to that section of the manual above, as you have many controls for what appears with the roof plan. The KTS must be in a **single cell table** in your document – this sets the constraints for the image.
###RoofImageC[n]	Inserts a roof plan drawing into a MS Word report, constrained to position – refer to that section of the manual as you have many controls for what appears with the roof plan (dimensions, flashing layout etc.)
###DatabaseName	This will write the AppliCad database file and model name for this particular job. For example, if your database file name is called *"My Database Name"* and the model name is *"My model name"* then ###DatabaseName will be exchanged for "AppliCad database file : *My Database Name Model My Model name*"
###DatabaseFileName	The name of the database file (similar to above – database name only)
###DatabaseModelName	The name of the model (similar to above – model name only)
###Scale	The plot scale of the job
—	
###Notes1	User defined notes 1 – for very early software, only suited to //Quotation template
###Notes2	User defined notes 2 – for very early software, only suited to //Installer Pay template
###Notes3	User defined notes 3 – for very early software, only suited to //Cost Summary template
###Notes4	User defined notes 4 – for very early software, only suited to //Order Forms template
###MultiGauges	Prints out the course gauge for each plane on the roof
###EaveType	Eave type selected – ie None, Gutter Only, Fascia Only, Fascia & Gutter
###FrameType	Indicates steel or timber from from **Job Info** screen.
—	
###LabTax	The labour component for the job exclusive of tax
###Tax	The rate set in Tools>Preferences (Redundant String– use Costing Strings)
###SalesTax	The rate set in Tools>Preferences (Redundant String– use Costing Strings)
###SalesTax%	The rate set in Tools>Preferences (Redundant String– use Costing Strings)
###Term	Payment terms set in Customer (Redundant String – use Costing Strings)

Metal Roofing and Flashing Key Text Strings

Key text string	*Description*
###RoofMat	The straight metal roofing material you selected for this job
###SheetArea	The total roof sheet area when cut list is determined by Gen Panels
###1BlockArea	The total roof sheet area when cut list determined by Blocking – 1st storey
###2BlockArea	The total roof sheet area when cut list determined by Blocking – Total of all remaining storeys (ie excluding 1st storey).
###BlockCuttingDrawing	The Block-Cut Drawing – Showing the roof layout as determined using the Block-Cut process. May be used in a MS Word template.
###CRoofMat	The curved roof material you selected for this job
###MSRoofQty	The area of straight metal roofing
###MCRoofQty	The area of curved metal roofing
###MSarkName	The name of the sarking for the metal roof
###PanelMats	Similar to RoofMat, but this handles multiple material types on the same job – if more than one material the list is prefixed 1: [desc], 2: [desc] etc.
###PanelLens	Total length of all panels of a type – if more than one material on the same job, the list is prefixed 1: [length], 2: [length] etc.
###PanelAreas	Total area of all panels of a type – if more than one material on the same job, the list is prefixed 1: [area], 2: [area] etc.
###PanelQtys	Total number of individual panels, regardless of length. —
###CoilWidth	The width of coil required to fabricate a panel profile – (necessary for ordering/pricing of projects).
###CoilWeight	The weight per sq ft/sq m of the selected coil – (necessary for ordering/pricing of projects).
###JobCoilWeight	Total weight of the coil required for the job – (necessary for ordering/delivery charge to add to quotes). —
###MFallName	The name of the fall protection for the metal roof
###ValleyMat	The valley material you selected for this job
###RidgeMat	The ridge material you selected for this job
###HipMat	The hip material you selected for this job
###FasciaMat	The fascia material you selected for this job (Add ###FasciaCol if colour needs to be displayed)
###GutterMat	The gutter material you selected for this job (Add ###GutterCol if colour needs to be displayed)
###FasciaCol	Lists the material colour for fascia

###GutterCol	Lists the material colour for gutters
###BargeMat	The barge material you selected for this job
###BatMat	The batten material you selected for this job
###Bat2Mat	The batten material of the secondary batten for this job
###BoxGutterMat	The box gutter material you selected for this job
###ApronMat	The apron material you selected for this job
###StepMat	The step flashing you selected for this job.
###DPMat	The downpipe material you selected for this job
###MRidgeQty	The length of just metal ridge flashing
###MValleyQty	The length of just metal valley flashing
###MGutterQty	The length of just metal gutter
###MFasciaQty	The length of just metal fascia flashing
###MBargeQty	The length of just metal barge flashing
###MApronQty	The length of just metal apron flashing
###MHipQty	The length of just metal hip flashing
###MStepQty	The length of just metal step flashing
###MDPipeQty	The number of downpipes
###MDPipeSize	The size of the downpipes
###DPList	Creates a table of all downpipes used on the job (CAD Templates).
###DPListTable	Creates a table of all downpipes and DP accessories used on the job (Word and Excel Templates).
###DPQty	The quantity of the downpipes
###BattenItems	The list of battens on the job
###MBattenQty	The length of battens – type one
###MBatten2Qty	The length of battens – type two
###BatQty	The total quantity of batten items
###Bat	The length of battens (Redundant String – use ###BatQty)
###FlashAccessList	Lists the flashing accessories material items for the job
###SheetAccessList	Lists the sheeting/panel accessories material items for the job
###FlashLabAccessList	Lists the flashing accessories labour items for the job
###SheetLabAccessList	Lists the sheeting/panel accessories labour items for the job
###LineItem_Bends	Outputs the number of bends for custom profile flashing details
###LineItem_Girth	Outputs the girth of material required for custom profile flashings.
###(n)User(N)Len	The length of User flashing (as defined in Set-Up > System Preferences) where 'n' is the storey number and 'N' is the User number (1, 2, 3 or 4). eg: ###1User1Len ###1User2Len

1st Storey User1Len: ###1User1Len

1st Storey User2Len: ###1User2Len

Tile Roof Key Text Strings

Key text string	*Description*
###TileMan	The tile supplier
###TileColour	The tile colour
###TileProfile	The tile profile
###TileType	The name of the tile
###TileMaterial	The tile material
###TileCov	The tile coverage
###TileMaxLen	The maximum length of the tile
###TileMinLen	The minimum length of the tile
###TileWidth	The width of the tile
###TileRidgeLen	The length of the ridge tile
###TileAccessList	A list of tile accessories on the job

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

###ShingleAccessList	A list of Shingle accessories on the job
###ShakeAccessList	A list of Shake accessories on the job
###TileRoofCost	The cost of a roof tile
###TileHipCost	The cost of a hip tile
###TileRidgeCost	The cost of a ridge tile
###TileShellcost	The cost of a shell end
###TileApexCost	The cost of an apex tile
###TileBargeLen	The length of a barge for tile
###TileBargeCost	The cost of a barge ridge tile
###TileCartage	The cost to deliver 100 tiles
###HipType	The hip type on the tile roof
###RidgeType	The ridge type on the tile roof
###ValleyType	The valley type on the tile roof
###GableType	The gable type on the tile roof

###FlexPointing	If flexible pointing is present
###CounterMat	The name of the counter batten material
###CBattenLen	The length of counter battens
###CourseLen	The length of courses on the tile roof (same as the batten length)
###LongRafter	The length of the longest rafter on a tile roof (only relevant if COURSING method of estimating is used.)
###LRCourses	The number of courses on the longest rafter
###LRCSpacing	The course spacing on the longest rafter
###MultiGauge	Shows the tile gauge for different roof planes

Fastener Key Text Strings

Key text string	*Description*
###FastQty	The quantity of fasteners
###FastSize	The fastener size

Fall Protection Key Text Strings
Fall protection options for fall protection “systems”. This allows estimators to produce exacting output of what is being estimated and calculated on various reports. In addition, the matching of this to modified categories ensures all results output, overcoming issues where previously modified category names would skew output.

Key text string	*Description*
###FallName	The name of the fall protection system you have selected (when there is just one selected)
###FallProtection	Set to YES if you have fall protection, otherwise NO
###Fall1Name	The name of the first fall protection system you have selected (up to max of 3 types in one job)
###Fall1Qty	The quantity of the first fall protection system you have selected
###Fall1Cost	The cost of the first fall protection system you have selected
###Fall2Name	The name of the second fall protection system you have selected (up to max of 3 types in one job)
###Fall2Qty	The quantity of the second fall protection system you have selected
###Fall2Cost	The cost of the second fall protection system you have selected
###Fall3Name	The name of the third fall protection system you have selected (up to max of 3 types in one job)
###Fall3Qty	The quantity of the third fall protection system you have selected
###Fall3Cost	The cost of the third fall protection system you have selected

Insulation Key Text Strings

Key text string	*Description*
###InsulQty	The quantity of insulation This KTS simply lists the total area of all “insulations” Where the value is calculated as the total of all laminate areas (up to 10 of them allowed) *If the value of laminate is 0.0, then it assigns the gl_SarkArea (Sarking or laminate area) to the value instead, so that this can be used for both ###INSULQTY and ###SARKAREA.*
###InsulMat	The insulation material you selected for this job. Uses the material option for Insulation first. *If set to “Not included” then it replaces with either Underlay or Sarking name, if in place.*
###InsulList	The list of insulation types used in the job. Works for CAD, Excel and Word builds list from Insulation, Underlay and Sarking category lists from S&I BOM with the category name of “Insulation” and outputs them in a list with the following format: <Supplier> – <Profile> [<Product Code>]
###Underlay	The underlay material you selected for this job
###SarkLargeRolls	The total number of large rolls of Sarking
###SarkSmallRolls	The total number of small rolls of Sarking
###SarkName	The name of the sarking for the job
###Sarked	Set to YES if there is sarking or NO if there is no sarking
###SarkArea	The area of roof that is sarked – Tile or Metal

Tiler Pay Values Key Text Strings

These values are calculated on the Costing1 dialog box in Roof Wizard

Note: All strings indicated with a * allow for a suffix to report individual storeys as shown below in the example for ###RoofArea. Without the suffix, the total length is reported.

Key text string	*Description*
###Tilername	Tiler’s name (Redundant string – use Installer)
###Tileraddress1	Tiler’s address line 1 (Redundant string – use Installer)
###Tileraddress2	Tiler’s address line 2 (Redundant string – use Installer)
###Tilerraddress3	Tiler’s address line 3 (Redundant string – use Installer)
###Tilerfax	Tiler’s fax number (Redundant string – use Installer)
###Tilercontact	Tiler’s contact name (Redundant string – use Installer)
###Tilerphone	Tiler’s phone (Redundant string – use Installer)
###Tilermobile	Tiler’s mobile (Redundant string – use Installer)

—

###Tilerroof1 *	Installers roof pay storey 1 – and each storey up to storey 10 Eg ###Tilerroof2 = installers roof pay storey 2 and ###Tilerroof3 = installers roof pay storey 3 etc.
###Tilerhips1 *	Installers hip pay storey 1
###Tilervalleys1 *	Installers valley pay storey 1
###Tilerridges1 *	Installers ridge pay storey 1
###Tilergables1 *	Installers gable pay storey 1
###TilersPay	The Tilers pay not including extras
###NumUnits	The default number of housing units for this job

Tile Quotation Values and Quantities Key Text Strings

The following strings refer to the **Reporting** command, after a quotation has been saved.

Key text string	*Description*
###TileItems	The number of tiles
###TileJCrate	The tile cost
###TileJobCost	Total cost of roof tiles
###TileAccessList	A list of tile accessories on the job
—	
###HipItems	The number of hip tiles
###HipJCrate	The hip tile cost
###HipJobCost	Total cost of hip tiles
—	
###ValleyItems	The number of valley items
###ValleyJCrate	The valley item cost
###ValleyJobCost	Total cost of valley items
—	
###RidgeItems	The number of ridge tiles
###RidgeJCrate	The ridge tile cost
###RidgeJobCost	Total cost of ridge tiles
###GableItems	The number of barge tiles
###GableJCrate	The barge tile cost
###GableJobCost	Total cost of barge tiles
—	
###SarkingItems	The number of rolls of sarking
###SarkingJCrate	The sarking cost
###SarkingJobCost	Total cost of sarking
—	
###BattenItems	The length of battens
###BattenQuoterate	The batten quote rate
###BattenJobCost	Total cost of battens
###BattenQuan	The quantity of battens
—	
###CartageItems	The number of cartage items
###CartageJCrate	The cartage cost
###CartageJobCost	Total cost of cartage
—	
###ShellEndsItems	The number of shell end items
###ShellEndsJCrate	The shell end cost
###ShellEndsJobCost	Total cost of shell ends
—	
###ApexItems	The number of apex items
###ApexJCrate	The apex cost
###ApexJobCost	Total cost of apexes
—	
###WasteTiles	The number of waste tiles
###WasteShingles	The number of waste shingles
###Wasteshakes	The number of waste shakes

Tables and Lists Key Text Strings

All ###CostingDetails* table reports will print as multi-page documents if required by the number of items in the table.

###COSTINGDETAILSTABLEFULLA table of ALL item description fields with all descriptions, product codes, pricing, showing all material items on a job as displayed in the Supply and Install dialog box including material and labour totals, tax etc.
NB – It only works with an Excel worksheet.
[Supplier][Product Code][Profile/Item Description][Finish][Colour/Gauge][Qty][Rate][SubTotal][Disc][Total][Category]

Key text string	*Description*
Variations on Costing Tables	
###CostingDetailsTable	The costing details table is drawn with its top left corner at the origin of this text. Note that the width of the table is a fixed size and includes Rebate/Extra

and Sub-Total fields when the job total has been manually modified. Shows material and labour markup, and excludes tax.
[Category][Item Desc][Qty][Rate][SubTotal][Disc][Total]The Job total is ex tax only.

###CostingDetailsTable1 This is the same as the costing details table above, but only reports the category, description and quantities only and omits all the costing fields.
[Category][Item Description][Qty]

###CostingDetailsTable2 The costing details table full format with tax is drawn with its top left corner at the origin of this text. Note that the width of the table is a fixed size. Shows material and labour markup, and total ex. tax as well as total inc. tax. Also shows tax as a separate item.
[Category][Item Desc][Qty][Rate][SubTotal][Disc][Total]

###CostingDetailsTable3 The costing details table full format without tax is drawn with its top left corner at the origin of this text. Shows material and labour totals. Does not show job totals or Quote Groups. Note that the width of the table is a fixed size.
[Category][Item Desc][Qty][Rate][SubTotal][Disc][Total]

###CostingDetailsTable4 The costing details table is drawn with its top left corner at the origin of this text. Note that the width of the table is a fixed size and includes Discount fields when the job total has been manually modified.###CostingDetailsTable4 outputs calls the function with mode = 2. With this set, the software outputs:

Discount in place of Sub-Total
Discounted-Rate in place if Discount.
[Category][Item Desc][Qty][Rate][Disc][DiscRate][Total]

###CostingDetailsTable5 The costing details table is drawn with its top left corner at the origin of this text. Note that the width of the table is a fixed size when the job total has been manually modified. It includes a column for **Units of Measure**.

Category	Item Description	Qty	Unit	Rate	Total
Straight Roofing	Alsynite, 100241-1,Hi Five,Industrial Polycarb,0.80	687.53	SqM	24.81	17057.55
Siding	ASE-Wall, ASEWALL.ASE.Plain,0.80	22.40	SqM	24.81	555.74
Panel Accessory	Alsynite, MWZNSTYZA,Hi Five Washer/EPDM Colour,Zincalume	27072.00	Pcs	0.27	7309.44
	Alsynite, LST20X30.5,Lap tap,Natural	5.00		0.99	4.95
	Alsynite, 100237,75mm purlin strips,Natural	1.00	L/M	73.84	73.84
	Alsynite, NBS0011ZA,12x25 Stiching screw,Zincalume	4.00	Pcs	0.12	0.48

To link the unit of measure with a product item, a file called UOM.dat must be created in the …\User folder with the product code of any/all products and the UoM separated by a comma.

For example –

Product Code,UoM
100241-1,SqM
ASEWALL,SqM
MWZNSTYZA,Pcs
LST20X30.5,L/M
100237,L/M
NBS0011ZA,Pcs
…

Note that the structure of the file is critical, for example: no spaces at the start of each line.

Failure to get this (the UoM.dat file) correct, stops this CostingTable from working.

###CostingSimpleTable A simple table of item description fields without pricing, showing all material items on a job.
[Item Description]

###CostingSimpleTableFlashQty A simple table of item description fields without pricing, showing flashing items on a job.
[Item Description]

Costing Details for Quote Groups

###CostingDetailsTableQG The costing details table is drawn with its top left corner at the origin of this text. Note that the width of the table is a fixed size. Items are grouped according to Quote Group definitions.

###CostingDetailsTable1QG This is the same as the costing details table above, but only reports the category, description and quantity and omits the costing fields. Items are grouped according to Quote Group definitions.

###CostingDetailsTable2QG — Same as previous table, but with Discount and Discount Rate, instead of Sub-Total and Discount. (Cost Price) Items are grouped according to Quote Group definitions.

Variations on Order Forms

###OrderTable — Full order table, number of columns = 3; Description, Qty, Rate

###TotalOrderTable — Full order table, number of columns = 4; Description, Qty, Rate, Total (***this works in conjunction with the MS Word template – OrderFormTemplate.doc and Excel with the OrderFormTemplate.xls***)

###OrderTableSimple — Number of columns = 2: Description, Qty (***this only works in conjunction with the MS Word template – OrderFormTemplate.doc***)

###OrderTableCutting — Number of columns = 6; Qty, <blank>, Length, <blank>, <blank>, <blank>, Cutting list in this format.

###OrderTableCuttingPrice — Number of columns = 8; Qty, <blank>, Length, <blank>, <blank>, <blank>, Price, SubTotal. Cutting list in this format.

###OrderTableNonCutting — Number of columns = 2: Description, Qty

###OrderTableNonCuttingPrices — Full order table, number of columns = 4; Description, Qty, Rate, SubTotal

###CuttingListTable — The metal panel cutting list table is drawn with its top left corner at the origin of this text. Note that the width of the table is a fixed size and matches the Tally Panels reporting dialog.
This table will also show panel lengths in whole Inches if set in Preferences, allowing you to easily input into your machine controller.

Category	Item Description	Qty
Straight	CS11,Standing Seam,Facade,26 Ga.	653.43 sqm
	4/11039, 1/11019, 1/10832, 1/10670, 2/10530, 1/10182, 1/10141, 1/9955, 1/9793, 2/9653, 2/9387, 1/9305, 1/9263, 1/9077, 1/9018, 1/8915, 3/8775, 1/8427, 1/8386, 1/8199, 1/8140, 1/8038, 3/7897, 1/7549, 1/7508, 1/7322, 24/7228, 1/7160, 1/7056, 5/7020, 1/6868, 1/6699, 1/6631, 1/6559, 1/6444, 1/6283, 5/6142, 1/5991, 1/5821, 1/5753, 1/5681, 1/5567, 1/5405, 1/5301, 5/5265, 1/5113, 1/4943, 1/4875, 1/4804, 1/4689, 1/4527, 5/4387, 1/4236, 1/4066, 1/3998, 1/3926, 1/3812, 1/3650, 1/3546, 5/3510, 1/3358, 1/3188, 1/3120, 1/3048, 1/2934, 1/2772, 5/2632, 1/2480, 1/2311, 1/2243, 1/2171, 1/2056, 1/1895, 1/1790, 5/1754, 1/1603, 1/1433, 1/1365, 1/1293, 1/1179, 1/1017, 5/877, 1/725, 1/556, 1/488, 1/416, 1/301, 1/140, 1/35.	859.77 m

Variations on Pay Tables

###PaySummaryTable — The pay summary table is drawn with its top left corner at the origin of this text. Note that the width of the table is a fixed size.

###PaySummaryTable2 — The pay summary table for second storey is drawn with its top left corner at the origin of this text. Note that the width of the table is a fixed size.

###PaySummaryTableQG — The pay summary table divided into Quote Groups is drawn with its top left corner at the origin of this text. Note that the width of the table is a fixed size. All pay items grouped according to Quote Group definitions.

###QG***Roofing***-PaySummaryTable — This creates a Pay Summary table for items that comprise the Quote Group (in this case the Quote Group called ***Roofing***). You might also have a Quote group pay summary for Fascia and Gutter and the KTS would be 'QG**Fascia_Gutter**-PaySummaryTable'.
A separate page is printed for each QG.

###PitchAreasTable — Creates a table of different roof areas based on pitch.

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

Sheet and Flashing List Tables

###SheetListTable — Produces a Sheetlist, together with a label of supplier, profile and finish. It automatically formats the sheetlist with 5 entries per line.
Note – This KTS works for MS Word/Excel and CAD templates.
In Word:

Stramit BP, Corrugated 0.42, Quartz
20/7255, 2/7085, 2/6765, 4/6600, 2/6260, 2/5940, 4/5775, 1/5435, 2/5115, 4/4950, 1/4875, 1/4610, 2/4290, 4/4125, 1/3785, 2/3465, 4/3300, 1/3225, 1/2960, 3/2925, 1/2640, 1/2550, 5/2475, 1/2395, 1/2135, 1/2090, 1/1815, 1/1725, 1/1710, 6/1650, 1/1575, 1/1570, 1/1310, 1/990, 1/900, 1/885, 6/825, 1/745, 1/485, 1/165, 1/75, 1/65

In Excel:

3	Stramit_BP, Corrugated 0.42, RAL7001
4	33/7255, 5/5065, 1/4950, 1/4505, 1/4370,
5	2/4125, 10/3605, 1/3545, 3/3300, 1/3225,
6	1/3220, 1/2960, 3/2925, 1/2640, 1/2550,
7	5/2475, 1/2395, 1/2135, 1/2090, 1/1815,
8	1/1725, 1/1710, 6/1650, 1/1575, 1/1570,
9	1/1310, 1/990, 1/900, 1/885, 6/825,
10	1/745, 1/485, 1/165, 1/75, 1/65

###SECTIONSTYLETABLE

Produces a sheet list table in the form of:

Qty	Linear M	Total Lin. M	Qty	Linear M	Total Lin. M
2	8.140 M	16.280 M	1	4.200 M	4.200 M
2	7.370 M	14.740 M	1	4.170 M	4.170 M
2	7.180 M	14.360 M	1	3.530 M	3.530 M
2	6.590 M	13.180 M	1	3.500 M	3.500 M
1	6.510 M	6.510 M	1	3.390 M	3.390 M
1	6.480 M	6.480 M	1	3.090 M	3.090 M
53	6.260 M	331.780 M	1	2.760 M	2.760 M
1	5.850 M	5.850 M	1	2.730 M	2.730 M
1	5.820 M	5.820 M	1	2.620 M	2.620 M
1	5.740 M	5.740 M	1	1.990 M	1.990 M
1	5.710 M	5.710 M	1	1.960 M	1.960 M
1	5.080 M	5.080 M	1	1.850 M	1.850 M
1	5.050 M	5.050 M	1	1.550 M	1.550 M
1	4.970 M	4.970 M	1	1.220 M	1.220 M
1	4.940 M	4.940 M	1	1.190 M	1.190 M
1	4.310 M	4.310 M	1	1.170 M	1.170 M
1	4.280 M	4.280 M	1	1.080 M	1.080 M
SubTotal	90	Panels			497.080 M

Minimum Panel Length Breakdown

1 / 1170 above made up of 1/450, 1/420, 1/300.

There are no options of single or double column etc.

###WALLSECTIONSTYLETABLE

Produces a sheet list table for wall panels similar to the one shown above.

###SheetListTable[N]

Controlling # Columns in Excel Produces a Sheetlist, together with a label of supplier, profile and finish. N can be 2,4,6,8 or 10 and specifies the number of columns making up a table that has QTY then LENGTH in subsequent cells.

Note – This KTS works for MS Excel templates only.

For example, a value of N = 2 would look like this for the following cutting list (23/7600, 12/5400, 22/1200)

23 7600
12 5400
22 1200

a value of N = 4 will produce the following:

23 7600 12 5400
22 1200

###FLASHINGLIST2[N]
###RIDGELIST2[N]
###VALLEYLIST2[N]
###FASCIALIST2[N]
###GUTTERLIST2[N]
###BARGELIST2[N]
###APRONLIST2[N]
###STEPLIST2[N]
###USER1LIST2[N]
###USER2LIST2[N]
###USER3LIST2[N]
###USER4LIST2[N]
###BOXGUTTER2LIST2[N]
###BATTENLIST2[N]
###BATTEN2LIST2[N]
###WLFLASHINGLIST2[N]
###WLEXTCNRLIST2[N]
###WLINTCNRLIST2[N]

Controlling # Columns in Excel

These strings produces a list, together with a label of supplier, profile and finish for each category of material.

Note – This KTS set works for MS Excel templates only.

N can be 2,4,6,8 or 10 and specifies the number of columns making up a table that has QTY then LENGTH in subsequent cells. Ideally suited to creating order forms and detailed quotations in Excel.For example, a value of N = 2 would look like this for the following cutting list (23/7600, 12/5400, 22/1200)

23 7600
12 5400
22 1200a value of N = 4 will produce the following:
23 7600 12 5400
22 1200

###WLWINDOWSILLLIST2[N]
###WLWINDOWHEADLIST2[N]
###WLWINDOWEDGELIST2[N]
###WLDOORHEADLIST2[N]
###WLDOOREDGELIST2[N]
###WLWALLTOPLIST2[N]
###WLWALLBASELIST2[N]

###WLWallBattenList
Outputs as per the current roof batten/purlin settings, but isolated to wall battens/purlins only.

###HSheetListTable
Note the '**H**' – This produces a Sheetlist, together with a label of supplier, profile and finish. It writes the individual lengths ***in columns across*** the spreadsheet, instead of rows down the spreadsheet.
Note – This KTS works for MS Excel templates only.

###HSheetListTable2
Note the '**H**' – This produces a Sheetlist, together with a label of supplier, profile and finish. It writes the individual lengths ***in columns across*** the spreadsheet, instead of rows down the spreadsheet.**Note –** This KTS works for MS Excel templates only.

	A	B	C	D	E	F	G	H	I	J	K
1	Material	quantity	unit	lookup	length	Trim	gauge	finish	extra charge	bundle	bundle description
2	UV36	2	EA		301		28	56068			Plane 1
3	UV36	2	EA		603		28	56068			Plane 1
4	UV36	2	EA		905.7		28	56068			Plane 1
5	UV36	2	EA		1207.7		28	56068			Plane 1
6	UV36	2	EA		1509.6		28	56068			Plane 1
7	UV36	1	EA		1704.6		28	56068			Plane 1
8											
9											
10	**Total # panels**	**11**									

The sheet length is expressed in the form –
Ft Ft In In . In/8
So 1201.4 = 12' 1 4/8"
and 408 = 4/8"
and 1402.7 = 14' 2 7/8"
(Note: This format was a special order but may be useful for many other users)

###SheetLengthTable
Produces a table of sheet lengths – used ONLY for Drawing Output Type 4 using a MS Word template, to define where the sheet table is placed.
Note – This is the MS Word version of the *CAD Panel Layout* drawing.

###SheetList
Produces a Sheetlist, together with a label of supplier, profile and finish. It automatically formats the sheetlist with 5 entries per line. The text height on this report is set by using the Gen-Panels text height in Panel Allowances.
Note – This KTS works for CAD Report only.

###ShortSheetList
Produces a Sheetlist of Minimum Roof Panel Lengths Breakdown – similar to the list below:

Minimum Panel Length Breakdown

1/7392 above made up of 1/1986, 1/1876, 1/1810, 1/1720.
1/6599 above made up of 3/1655, 1/1633.
1/6532 above made up of 4/1633.
1/6892 above made up of 1/1435, 1/1413, 1/1395, 2/1324.
1/7905 above made up of 2/1324, 1/1170, 1/1060, 3/1009.
1/7268 above made up of 1/1009, 1/993, 1/982, 1/972, 1/861, 3/817.
1/6106 above made up of 3/817, 2/795, 1/618, 1/596, 1/243, 2/193, 1/177, 1/45.

This KTS works in Word and Excel

###WShortSheetList
Produces a Sheetlist of Minimum Wall Panel Lengths Breakdown similar to roof panel lengths described above.This KTS works in Word and Excel

###SheetAccessList
Creates a table of sheet or panel accessories

###SheetLabAccessList
Creates a table of labour for sheet or panel accessories

###FlashingList
Produces a flashing cutting list, together with a label of supplier, profile and finish. It automatically formats the list with 5 entries per line.

###FlashingTable
Providing underlined headings, including product code and finish, UoM = PIECES and exact bend angle.

Flashing / Trim	Qty	UOM	Bend Angle	Product Code
F-3445 Exterior Ridge/Hip Trim, Sig 200	6	PIECES	143.13°	ECO-EXTRRIDGEF-344524D
F-3445 Exterior Ridge/Hip Trim, Sig 200	8	PIECES	126.87°	ECO-EXTRRIDGEF-344524D
F-3500 Valley Trim, Sig 200	3	PIECES	143.13°	ECO-VALLEYF-350024D
F-3290 Drip Trim 1-1/2", Sig 200	28	PIECES	143.13°	DRIPTRIMF-329022D
F-3420 Gutter Wall 2"-6"/Roof 2"-3", Sig	7	PIECES	143.13°	ECO-GUTTERF-

###FlashingTable2
Providing underlined headings, removal of product code and finish, changed UoM PIECES to EA and rounded angle of bend to nearest whole degree.

Flashing / Trim	Qty	UOM	Bend Angle
F-3445 Exterior Ridge/Hip Trim	6	EA	143°
F-3445 Exterior Ridge/Hip Trim	8	EA	127°
F-3500 Valley Trim	3	EA	143°
F-3290 Drip Trim 1-1/2"	28	EA	143°
F-3420 Gutter Wall 2"-6"/Roof 2"-3"	7	EA	143°
F-292 Parapet Rake Cl	12	EA	143°
FL-275 Parapet High Eave	8	EA	143°

###FlashingListText	Produces a flashing cutting list, together with a label of supplier, profile and finish as free text in a Word document (ONLY in Word)
###FlashAccessList	Creates a table of flashing accessories
###FlashLabAccessList	Creates a table of labour for flashing accessories
###FasciaAccessList	Inserts list of Fascia accessories
###GutterAccessList	Inserts list of Gutter accessories
###RidgeList	Simply lists the ridge material and its cutting list. It is an abridged version of the ###FlashingList
###ValleyList	Simply lists the valley material and its cutting list. It is an abridged version of the ###FlashingList
###FasciaList	Simply lists the fascia material and its cutting list. It is an abridged version of the ###FlashingList
###GutterList	Simply lists the gutter material and its cutting list. It is an abridged version of the ###FlashingList
###DPList	Creates a table of all downpipes used on the job.
###BargeList	Simply lists the gable/barge material and its cutting list. It is an abridged version of the ###FlashingList
###ApronList	Simply lists the apron material and its cutting list. It is an abridged version of the ###FlashingList
###BattenList	Simply lists the batten material and its cutting list. It is an abridged version of the ###FlashingList
###BoxGutterList	Simply lists the box gutter material and its cutting list. It is an abridged version of the ###FlashingList
###StepList	Inserts table with cutting list of Step Flashing
###User1List, ###User2List, ###User3List, ###User4List	Inserts table with cutting list of User defined flashing – as defined in System Preferences.
###BattenSpacingTable2	Inserts a table which describes the batte2 spacings you have set.
###FixtureList	The list of fixture names in the job
###ExtraList	The list of extras you selected for the job – zero qty items do not output
###MiscList	The list of miscellaneous items you selected for the job
###ParaFixtureList	Outputs a table of label, length/diameter, width and height of parametric fixtures
###NettRoofQuantities	Generates a table of the nett roof quantities similar to the **Tools > Tally-Quantities** dialog box.
###InsulList	The list of insulation types used in the job Works for CAD, Excel and Word Simply builds up a list of all items in the S&I BOM list with the category name of “Insulation” and outputs them in a list with the following format: <Supplier> – <Profile> [<Product Code>]
###MembraneList	The list of flat roof membranes (single ply or BUR) used on the roof
###FLASHINGALLOWANCETABLE	The list of allowance settings for flashings and trim used on the roof model.

Line Type	Run	Lap	Int. Corner	Ext. Corner
Ridge	6 1/32"	1/8"		
Hip	1/8"	1/8"		
Valley	3/64"	1/8"		
Gable	3/64"	1/8"		
Fascia-Barge	3/64"	1/8"		
Batten 1	0'	0'		
Batten 2	0'	0'		
Apron	3/64"	1/8"		
Box-Gutter	3/64"	1/8"		
Step	3/64"	1/8"		
Brick Boundary Flashing	3/64"	1/8"		
Parapet Cap	3/64"	1/8"		
Solar Side	3/64"	1/8"		
Cable Tray	3/64"	1/8"		
Custom	3/64"	1/8"		
Gutter	1/8"	1/8"	0'	0'
Fascia	3/64"	1/8"	0'	0'

Note that User 1 -4 line types have been defined to other categories of flashing in this example. These are set in the System Preferences.

###PANELALLOWANCETABLE	The list of panel edge allowances used on the roof model. Note that these are the offsets from the the line – so for valley in this example, the setting is 4″

Offset-Roof Option	Distance
Gutter Overhang	4"
Box Gutter Overhang	6"
Hip Clearance	2"
Ridge Clearance	2"
Gable Clearance	1"
Valley Clearance	4"
Apron Clearance	1"
Batten Thickness	3"

each side of the line.

###MaterialQuantityTable — An abbreviated list of all materials used on the roof (no headings or descriptions – special order for one customer, but may be useful for other users.) Note that this table only works with MS Excel.

	A	B	C	D	E
1	Code	Qty	UOM	Qty	Length
2	SRBAC42MO		m2	1	718800
3	RCRTL42340MO		lm	1	8300
4	RCRTL42340MO		lm	2	7800
5	RCRTL42340MO		lm	1	7600
6	RCRTL42340MO		lm	2	6500
7	RCRTL42340MO		lm	1	6300
8	RCRTL42340MO		lm	2	5800
9	RCRTL42340MO		lm	1	5600
10	RCRTL42340MO		lm	3	4900
11	RCRTL42340MO		lm	1	4600
12	RCRTL42340MO		lm	1	4500
13	RCRTL42340MO		lm	2	4300
14	RCRTL42340MO		lm	1	4100
15	RCRTL42340MO		lm	1	4000
16	RCRTL42340MO		lm	2	2600
17	RCRTL42340MO		lm	1	2400
18	RCRTL42340MO		lm	1	900
19	VG42340MO		lm	1	8200
20	VG42340MO		lm	1	6500

###MaterialQuantityTotalTable — An abbreviated list of all materials used on the roof with same sheet lengths added together (no headings or descriptions – special order for one customer.) Note that this table only works with MS Excel.

	A	B	C	D	E
1	Code	Qty	UOM	Qty	Length
2	SRBAC42MO		m2	1	718800
3	RCRTL42340MO		lm	1	117000
4	VG42340MO		lm	1	34500
5	BSQT150MO		lm	1	9200
6	UNITYSF55MO		lm	1	3200
7					

Quote Specific Key Text Strings

Key text string	*Description*
###QuoteName	The name of this quote
###LabMargin	The labor margin percentage
###JobTotal	The Job total (quotation amount)
###Rebate	The job discount or extra job margin calculated when Total is changed **[=]**
###CroofMat	The total of the curved roof material
###InsulMat	The total of the insulation material
###DPMat	The total of the downpipe material
###RoofMatLab	The sum of roof material cost and roof labor cost
###CroofMatLab	The sum of curved roof material cost and curved roof labor cost
###FlashMatLab	The sum of flashing material cost and flashing labor cost
###InsulMatLab	The sum of insulation material cost and insulation labor cost
###BatMatLab	The sum of batten material cost and batten labor cost
###DPMatLab	The sum of downpipe material cost and downpipe labor cost
###AccMatLab	The sum of accessories material cost and accessories labor cost
###MatMargin	The material margin percentage
###SubTotal	The total of the materials and labor

###RoofMat	The total of the roof material
###BatMat	The total of the batten material
###BattenJCRate	Batten job cost rate
###QQCostTotal	Costing Plus only – total job cost price ex. Tax
###QQCustPriceTotal	Costing Plus only – total job sell price ex. Tax
###QQMARGINTABLE	Costin Plus only – table of job margin
###QQMargin	Costing Plus only – Sell price less cost price

Quote Groups Key Text Strings

Key text string……	***Description***
###CostingDetailsTableQG	The costing details table is drawn with its top left corner at the origin of this text. Note that the width of the table is a fixed size. Items are grouped according to Quote Group definitions.
###CostingDetailsTable1QG	This is the same as the costing details table above, but only reports the category, description and quantity only, and omits the costing fields. Items are grouped according to Quote Group definitions.
###CostingDetailsTable2QG	Same as the previous table but with Discount and Discount Rate, instead of Sub-Total and Discount. Note that the width of the table is a fixed size. (Cost Price) Items are grouped according to Quote Group definitions.
###QG”QGName”-PaySummaryTable	This creates a Pay Summary table for items that comprise the Quote Group (”QGName” might be ***Roofing***). You might also have a Quote group pay summary for Fascia and Gutter and the KTS would be ‘QG***Fascia_Gutter***-PaySummaryTable’. A separate page is printed for each QG name. (Permits output of individual QG labour items)
###QGList	Writes out a list of quote group names and what is within each quote group (as per setup categories).
###QGList2	Same as above but without header text for each Quote Group.
###QG”QGName”-MatSubTotal	Sub-total of Materials for specified Quote Group name
###QG”QGName”-LabSubTotal	Sub-total of Labour for specified Quote Group name
###QG”QGName”-Total	Total of Materials and Labour for specified Quote Group name

Labor Key Text Strings

Key text string	***Description***
###RateRoof	The labor rate for roofing
###RateRidge	The labor rate for ridges
###RateValley	The labor rate for valley
###RateFascia	The labor rate for fascia
###RateBarge	The labor rate for barges
###RateChimney	The labor rate for chimneys set in Metal Rates
###RateCRoof	The labor rate for curved roofing
###RateCApron	The labor rate per curved apron
###RateCHip	The labor rate per curved hip
###RateBat	The labor rate for battens
###RateInsul	The labor rate for insulation
###RateGutter	The labor rate for guttering
###RateApron	The labor rate for apron flashing
###RateBoxGutter	The labor rate for box guttering
###RateCSheet	The labor rate per curved sheet

###RateCBarge	The labor rate per curved barge
###RateCValley	The labor rate per curved valley
###RateDP	The labor rate for downpipes
###InsulLab	The total of the insulation labor
###DPLab	The total of the downpipe labor
###TotalLab	The total cost of labor
###LabExTax	Labour excluding tax
###LabIncTax	Labour including tax
###FlashLab	The total of the flashing labor
###FlashLabAccessList	Creates a table of labour for flashing accessories
###SheetLabAccessList	Creates a table of labour for sheet or panel accessories
###AccLab	The total of the accessory labor

Wall Geometry Key Text Strings

Key text string	*Description*
###WLWALLAREA	The wall area
###WLWALLLENGTH	The total wall length
###WLWINDOWSILL	The length of window sills
###WLWINDOWEDGE	The length of window edges
###WLWINDOWHEAD	The length of window heads
###WLDOOREDGE	The length of door edges
###WLDOORHEAD	The length of door heads
###WLINTCNR	The length of internal corners
###WLEXTCNR	The length of external corners
###WLWALLTOP	The length of wall tops
###WLWALLBASE	The length of wall bases
###WLNWINDOWSILL	The number of window sills
###WLNWINDOWEDGE	The number of window edges
###WLNWINDOWHEAD	The number of window heads
###WLNDOOREDGE	The number of door edges
###WLNDOORHEAD	The number of door heads
###WLNINTCNR	The number of internal corners
###WLNEXTCNR	The number of external corners
###WLNWALLTOP	The number of wall tops
###WLNWALLBASE	The number of wall bases
###WLNWALLS	The number of walls

Wall and Roof Facet Reports

Additional capability is available to display roof and wall models in isometric view and provide summaries of areas, pitches, lengths etc.

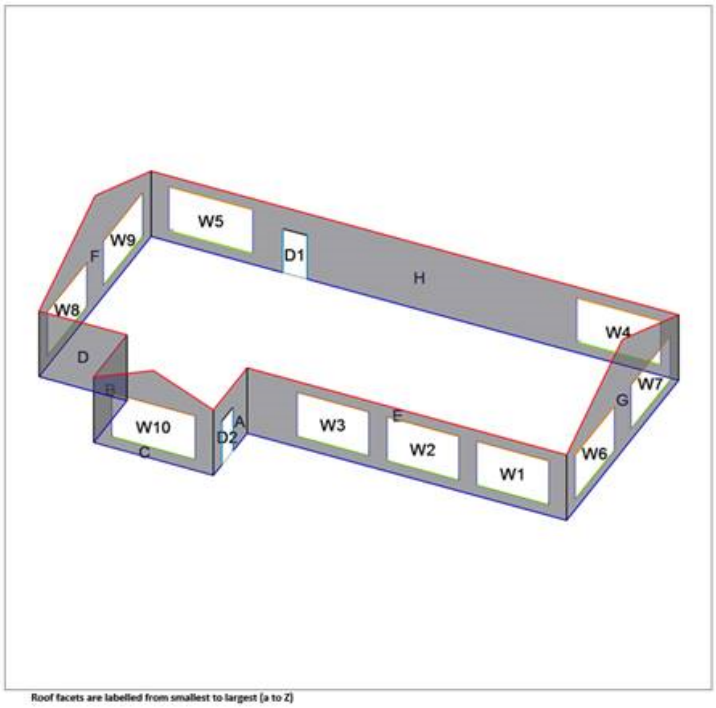
You control the appearance of the attributes of the roof as they appear on the report using **###RoofImage[n]**. The key text string for the roof image **MUST be placed in a single cell table** in MS Word or a cell in MS Excel to work correctly and the size of the single cell table will determine the size of the image. Failure to insert in a MS Word single cell table may cause the software to crash.

The key text string for this option allows the operator to control the level of annotation applied to the roof drawing. For example, you might require dimensions, roof slope/pitch and Line types. This can be achieved by setting the ‘switches’ as shown below, in the combination that you require for the desired output.

The following list summarises what is included on the drawing of the roof model.

Additional annotation Switch

```
1 - Roof planes (1 = on, 0 = off)
2 - Display Walls (2 = on, 0 = off)
4 - Panel layout/Block layout/Offcut layout (4 = on, 0 = off)
8 - Dimensions (8 = on, 0 = off)
16 - Roof Pitch/Slope (16 = on, 0
64 - Flashing annotations (64 = on, 0 = off)
128 - Battens/Purlins (128 = on, 0 = off)
256 - Course lines (256 = on, 0 = off)
512 - Downpipes (512 = on, 0 = off)
1024 - Section Details Report (1024 = on, 0 = off)
2048 - Block-Cutting (2048 = on, 0 = off)
4096 - Roof plane areas (4096 = on, 0 = off)
8192 - Display defined Zones (8192 = on, 0 = off)
16384 - Display automated roof plane Labels (16384 = on, 0 = off)
```



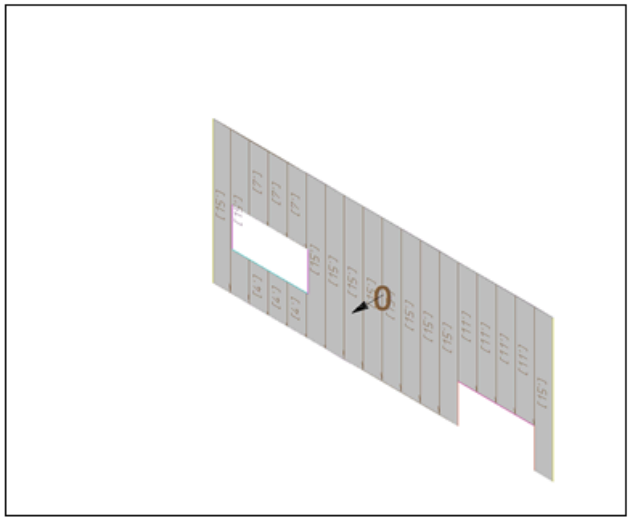
Roof facets are labelled from smallest to largest (a to Z)

###WallImage[n] works in the same way for creating wall reports as ###RoofImage[n] works for roofing. The operator can now control the appearance of the attributes of the wall as they appear on the report using **###WallImage[n]** where n = the 'switches' as shown below, in the combination that you require for the desired output, in the same manner as described above for the roof report.

```
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 (64 = On, 0 = Off)
128 – Display Wall Plane Areas  (128 = On, 0 = Off)
256 – Display Overall Dimensions (256 = On, 0 = Off)
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 Section Details

###WallSectionReport
Produces a series of tables, and an illustration of each individual wall in the structure, plus a companion table showing –
[Qty]; [Linear (Ft/MM)]; [% Waste]; [Total Linear (Ft/MM)]; [Square (Ft/MM)] and a [SubTotal] for each column.



Wall Plane Area - 464.90 Sq. Ft.

Qty	Linear Feet	% Waste	Total Lin. Feet	Square Feet
11	15' 0"	4.8	165' 0"	330.0
4	11' 0"	2.2	44' 0"	88.0
3	7' 0"	3.4	21' 0"	42.0
3	4' 0"	-0.0	12' 0"	24.0
SubTotal	21	**Panels**	242' 0"	484.0

###WallSectionReportDir
Produces a series of tables, and an illustration of each individual wall in the structure, plus a companion table showing –
[Qty]; [Linear (Ft/MM)]; [% Waste]; [Total Linear (Ft/MM)]; [Square (Ft/MM)] and a [SubTotal] for each column, with the **panel list arranged in the direction of lay, regardless of length**.

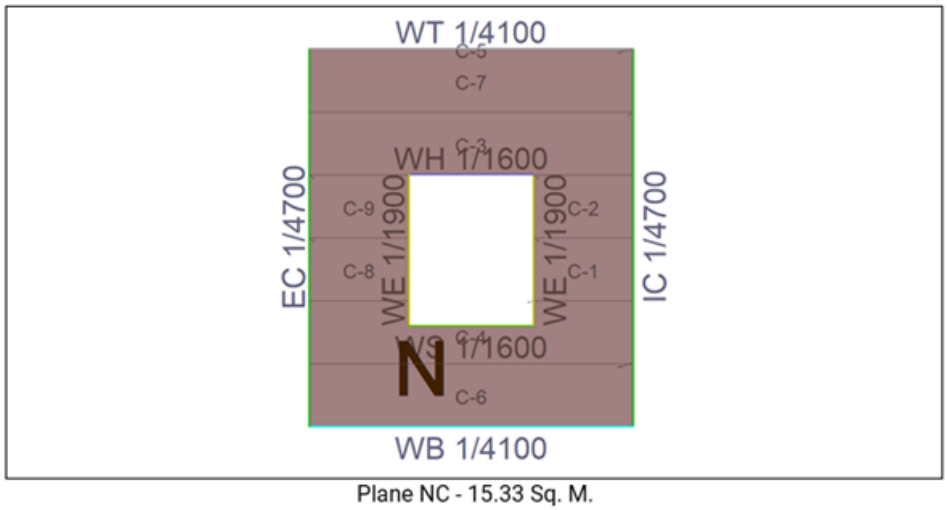
###WallSectionReport2
Produces a series of tables, and an illustration of each individual wall in the structure. It includes an isometric view of the structure, plus a companion table showing –
[Qty]; [Linear (Ft/MM)]; [% Waste]; [Total Linear (Ft/MM)]; [Square (Ft/MM)] and a [SubTotal] for each column.

###WallSectionReportDir2
Produces a series of tables, and an illustration of each individual wall in the structure. It includes an isometric view of the structure, plus a companion table showing –
[Qty]; [Linear (Ft/MM)]; [% Waste]; [Total Linear (Ft/MM)]; [Square (Ft/MM)] and a [SubTotal] for each column, with the **panel list arranged in the direction of lay, regardless of length**.

###WallSectionReport3
Produces a series of tables, and an illustration of each individual wall in the structure. It includes an isometric view of the structure, plus a companion table showing –
[Qty]; [Linear (Ft/MM)]; [Total Linear (Ft/MM)]; [Qty]; [Linear (Ft/MM)]; [Total Linear (Ft/MM)] in two columns.

###WallSectionReportDir3
Produces a series of tables, and an illustration of each individual wall in the structure. It includes an isometric view of the structure, plus a companion table showing – [Qty]; [Linear (Ft/MM)]; [Total Linear (Ft/MM)]; [Qty]; [Linear (Ft/MM)]; [Total Linear (Ft/MM)] in two columns, with the **panel list arranged in the direction of lay, regardless of length**.

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 turned off using the **Tools > Set-Display** option prior to reporting.



Plane NC - 15.33 Sq. M.

Unfold Wall Report

The key text string **###UnfoldWallReport** allows 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.

Facet (Wall/Roof Plane) Tables

Facets are labelled A to Z from smallest to largest. Similarly, windows and doors.

Facet	Area	Plane Type
A	11m²	Wall
B	14m²	Wall
C	16m²	Wall
D	17m²	Wall
E	33m²	Wall
F	40m²	Wall
G	40m²	Wall
H	75m²	Wall
W1	9m²	Window
W2	9m²	Window
W3	9m²	Window
W4	11m²	Window
W5	11m²	Window
W6	11m²	Window
W7	11m²	Window
W8	11m²	Window
W9	11m²	Window
W10	11m²	Window
D1	3m²	Door
D2	3m²	Door

###WallSectionReportDir (2, 3, 4)
Produces a series of tables, and an illustration of each individual wall in the structure, plus a companion table showing –
[Qty]; [Linear (Ft/MM)]; [% Waste]; [Total Linear (Ft/MM)]; [Square (Ft/MM)] and a [SubTotal] for each column, with the **panel list arranged in the direction of lay, regardless of length**.

###ROOFFACETTABLE
Produces a table of roof facets, labelled with A, B, C etc. and a companion table of facet letter, area and pitch.

###ROOFFACETTABLE2
Produces a table of roof facets, labelled with A, B, C etc. and a companion table of facet letter, area and pitch and plane type (material).

###ROOFFACETTABLE3
Produces a table of roof facets, labelled with A, B, C etc. and a companion table of facet letter, area and pitch and plane type (material) and azimuth.

###WALLFACETTABLE
Produces a table of wall facets only, labelled with A, B, C etc. and a companion table of facet letter, area and plane type.

###WALLFACETTABLE2
Produces a table of wall facets with windows and doors, labelled with A, B, C etc. and a companion table of facet letter, area and plane type. (see example above, note that appearance of the table is controlled by TableFormats.csv)

###WALLFACETTABLE3
Produces a table of windows and doors only, labelled with A, B, C etc. and a companion table of facet letter, area and plane type.

Wall Material and Labor Key Text Strings

Key text string	*Description*
###WLSidingMat	The siding material
###WLExtCnrMat	The external corner material
###WLIntCnrMat	The internal corner material
###WLWindowSillMat	The window sill material
###WLWindowEdgeMat	The window edge material
###WLWindowHeadMat	The window head material
###WLDoorEdgeMat	The door edge material
###WLDoorHeadMat	The door head material
###WLWallTopMat	The wall top material
###WLWallBaseMat	The wall base material
###WLLabSiding	The siding labor total
###WLLabExtCnr	The external corner labor total
###WLLabIntCnr	The internal corner labor total
###WLLabWindowSill	The window sill labor total
###WLLabWindowEdge	The window edge labor total
###WLLabWindowHead	The window head labor total
###WLLabDoorEdge	The door edge labor total
###WLLabDoorHead	The door head labor total
###WLLabWallTop	The wall top labor total
###WLLabWallBase	The wall base labor total

Wall Flashing Key Text Strings

Key text string	*Description*
###WLFLashingList	The cutting list of all the wall flashings
###WLExtCnrList	The external corner flashing list
###WLIntCnrList	The internal corner flashing list
###WLWindowHeadList	The window head flashing list
###WLWindowEdgeList	The window edge flashing list
###WLWindowSillList	The window sill flashing list
###WLDoorEdgeList	The door edge flashing list
###WLDoorHeadList	The door head flashing list
###WLWallTopList	The wall top flashing list
###WLWallBaseList	The wall base flashing list

Cranked/Arc Roof Reports Key Text Strings

Key text string	*Description*
###CrankInsideHeight	Overall inside height measurement of cranked roof section
###CrankInsideWidth	Overall inside width measurement of cranked roof section
###NumCranks	The number of cranked bends in the sheet
###NumSheets	The total number of sheets to be cranked for the particular job
###PanelDepth	The profile depth of the sheet
###Radius1	Radius of first bend of cranked sheet
###Radius2	Radius of second bend of cranked sheet
###Radius3	Radius of third bend of cranked sheet
###Angle1	The first angle of arc to bend the crank
###Angle2	The second angle of arc to bend the crank
###Angle3	The third angle of arc to bend the crank
###LengthA	Length of the first straight section of a single crank sheet type 1, 2, 3, 6, 8
###LengthA1	The length of the first straight section of a double crank sheet
###LengthB	The length of the second straight section of a cranked sheet type 4, 5, 7
###LengthB2	The length of the third straight section of a double cranked sheet type 4
###LengthC	The length of the first arc of a single crank sheet type 1,2,3,6,8
###LengthC1	The length of the first arc of a double crank sheet type 4,5,7
###LengthC2	The length of the second arc of a double crank sheet type 4,5,7
###LengthO	The length of the first section of the cranked sheet type 9
###LengthX	The length of the first arc of a three crank sheet type 9
###LengthY	The length of the second arc of a three crank sheet type 9
###LengthZ	The length of the third arc of a three crank sheet type 9
###OrderNo	Order number for cranked sheet work order
###TotalLength	Total length of sheet required before cranking
###Pitch	Roof Pitch
###Colour	Sheet colour for cranked sheets
###GeometryTable	Sets the geometry table for non-standard roof shapes (specifically not one of the standard shapes 1 through 9)

Miscellaneous Key Text Strings

Key text string	*Description*
###CartageQty	The quantity of cartage
###DeliveryArea	Job delivery Area Name (Redundant String – Use Job Key Text Strings)
###DeliveryDate	Proposed delivery date (Redundant String – Use Job Key Text Strings)
###PickupDate	Proposed job pickup date (Redundant String – Use Job Key Text Strings)
###Fixdate	Install date (Redundant String – Use Job Key Text Strings)
###TIDescription	The tax invoice description as input when printing Tax Invoice 1 or 2 reports
###StageDelDate	The delivery date of the currently selected stage
###StageInstallDate	The install date of the currently selected stage
###StageInstaller	The installer of the currently selected stage
###StageName	The name of the currently selected stage
—	
###Title	Drawing Title
###RoofImage[n]	Inserts an image of your roof model into a report unconstrained – that is it fits the available MS Word text box, table or shape where the information displayed is set by the sum of prime numbers. Refer to managing content for MS Word templates for details.
###RoofImageC[n]	Inserts an image of your roof model into a report constrained by the image aspect ratio, where the information displayed is set by the sum of prime numbers. Refer to managing content for MS Word templates for details.
###Image[filename]	Inserts an image (jpg, gif, tif) into a report unconstrained – that is it fits the available MS Word text box, table or shape where the filename is the name of the file inside the square brackets. Refer to setting up MS Word templates for details.
###ImageC[filename]	Inserts an image (jpg, gif, tif) into a report constrained by the image aspect ratio, where the filename is the name of the file inside the square brackets. Refer to setting up MS Word templates for details.

Costing Specific Key Text Strings (Sell Price Dialog box)

Key text string	*Description*

###QLSUBTOTAL	The labour sub total (Sell price)
###QLMARKUP	The labour mark up percentage (Sell price)
###QLTOTAL	The labour total (Sell price)
###QMSUBTOTAL	The material subtotal (Sell price)
###QMMARKUP	The material mark up percentage (Sell price)
###QMTOTAL	The material total (Sell price)
###QSTAXRATE	The sales tax rate
###QSTAX	The sales tax amount
###QQName	The saved name of the quotation
###QQTotal	The job total for the saved quotation (Same value as ###JobTotal)
###QuoteCostTotal	The quotation sell price + tax amount (Redundant String – Use QQTotal)

Costing Plus Specific Key Text Strings (Cost Price Dialog box)

Key text string	*Description*
###2QLMARKUP	The labour mark up percentage (Cost price)
###2QLSUBTOTAL	The labour cost sub total (Cost price)
###2QLTOTAL	The labour total (Cost price)
###2QMSUBTOTAL	The material subtotal (Cost price)
###2QMMARKUP	The material mark up percentage (Cost price)
###2QMTOTAL	The material total (Cost price)
###2QSTAXRATE	The sales tax rate (Cost price)
###2QSTAX	The sales tax amount (Cost price)
###2GST	The defined Goods and Services Tax rate (GST on Cost Price)
###2Tax	The GST amount (on the Cost Price)
###2JobTotal	The Total Job cost (Cost Price)
###2TotalExTax	The Total Job cost excluding tax (Cost Price)
###2TotalIncTax	The Total Job cost including tax (Cost Price)
###2LabTAX	The labour tax rate
###2LabIncTAX	The Total Labour cost including tax (Labour Cost)
###2LabExTAX	The Total Labour cost excluding tax (Labour Cost)
—	
###2WLLABSIDING	Wall Labour amount
###2WLLABEXTCNR	Wall external corner labour amount
###2WLLABINTCNR	Wall internal corner labour amount
###2WLLABWINDOWSILL	Wall window sill labour amount
###2WLLABWINDOWEDGE	Wall window edge labour amount
###2WLLABWINDOWHEAD	Wall window head labour amount
###2WLLABDOOREDGE	Wall door edge labour amount
###2WLLABDOORHEAD	Wall door head labour amount
###2WLLABWALLTOP	Wall door top labour amount
###2WLLABWALLBASE	Wall base labour amount
—	
###2COSTINGDETAILSTABLE	The costing details table full format no tax is drawn with its top left corner at the origin of this text. Note that the width of the table is a fixed size. (Cost Price)
###2COSTINGDETAILSTABLE1	This is the same as the costing details table above, but only reports the category, description and quantity and omits the costing fields.
###2COSTINGDETAILSTABLE2	The costing details table full format with tax is drawn with its top left corner at the origin of this text. Note that the width of the table is a fixed size. (Cost Price)
###2CUTTINGLISTTABLE	The cutting list table is drawn with its top left corner at the origin of this text. Note that the width of the table is a fixed size.
—	
###2FIXTURELIST	The list of Fixture names in the job with quantity
###2MISCLIST	The list of Miscellaneous items you selected for the job
###2EXTRALIST	The list of Extras you selected for the job
###2INSULLIST	The list of insulation types used in the job
###2MEMBRANELIST	The list of flat roof membranes (single ply or BUR) used on the roof

Costing Strings – Specific to Roof Wizard 'Costing > Supply and Install' Costing Method
Usually used in conjunction with a variety of the KTS in this list.

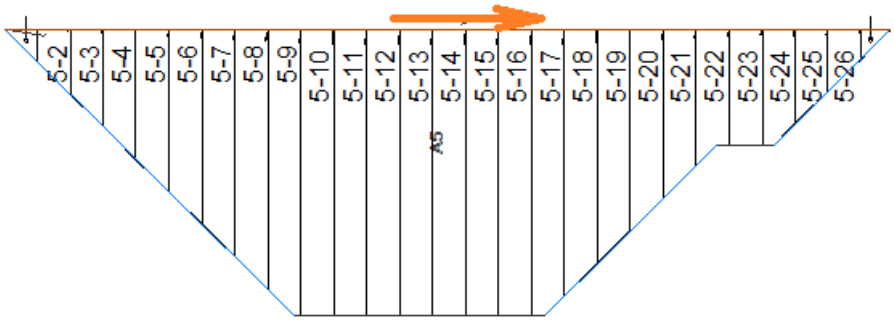
Key text string	*Description*
###TotalExTax	The total quote excluding tax
###SellPrice	The value equal to "My total (ex tax)" (Redundant String – use JobTotal)
###JobTotal	Same as ###SellPrice – job total price (labour and materials, excluding tax)
###GST	Percentage of total based on tax rate set in Tools > Preferences
###TotalIncTax	Total quote including tax

Section Report Strings

Section Report Strings are used to create separate metal cutting list reports for each roof plane.
They are only relevant to the **Section Report** function and only work in MS Word templates.

Key text string	*Description*
###SectionReport	metal cutting list reports per roof plane with plane image and annotation, with waste and panel areas in table
### SectionReport2	metal cutting list reports per roof plane with no roof plane image, with waste and panel areas in table

SectionReport3 metal cutting list reports per roof plane without plane annotation, no waste or panel area in the table
SectionReport4 metal cutting list reports per roof plane with plane image and annotation, with waste and panel area in the table, includes section numbers.
###SectionReportDir metal cutting list reports per roof plane with plane image and annotation, with waste and panel areas in table, with the panels sorted in the direction of the panel, from small to large and back to small (such as on a hip end) and aggregates those panels of the same length.



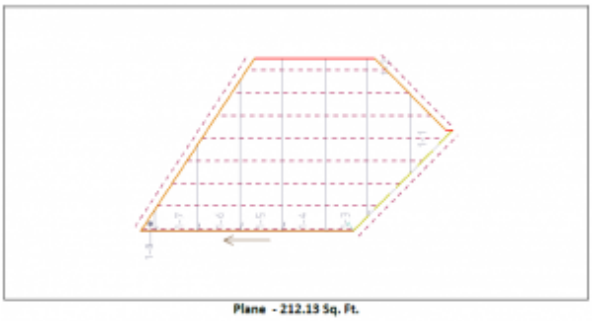
Plane A5 - 94.45 Sq. M.

Qty	Linear M	% Waste	Total Lin. M	Square Metres
1	0.825 M	50.0	0.825 M	0.6
1	1.650 M	25.0	1.650 M	1.3
1	2.475 M	16.7	2.475 M	1.9
1	3.300 M	12.5	3.300 M	2.5
1	4.125 M	10.0	4.125 M	3.1
1	4.950 M	8.4	4.950 M	3.8
1	5.775 M	7.2	5.775 M	4.4
1	6.600 M	6.3	6.600 M	5.0
9	7.255 M	0.7	65.295 M	49.8
1	6.765 M	6.2	6.765 M	5.2
1	5.940 M	7.0	5.940 M	4.5
1	5.115 M	8.1	5.115 M	3.9
1	4.290 M	9.7	4.290 M	3.3
1	3.465 M	10.6	3.465 M	2.6
2	2.925 M	3.0	5.850 M	4.5
1	2.395 M	17.3	2.395 M	1.8
1	1.570 M	26.3	1.570 M	1.2
1	0.745 M	54.9	0.745 M	0.6
SubTotal	27	Panels	131.130 M	99.9

Note the panels of the same length listed together.

SectionReportDir2 metal cutting list reports per roof plane with no roof plane image, with waste and panel areas in table, with the panels sorted in the direction of the panel.
SectionReportDir3 metal cutting list reports per roof plane without plane annotation, no waste or panel area in the table, with the panels sorted in the direction of the panel.
SectionReportDir4 metal cutting list reports per roof plane with plane image and annotation, with waste and panel area in the table, includes section numbers, with the panels sorted in the direction of the panel.
###FlashingTable available for commercial roofing to display bend angle of flashing
###FlashAccesstable available for Commercial Roofing to display accessories and fasteners associated with trim and panels
###ExtrasTable displays any extras selected for the current estimate

Note that the Section Report key text strings also displays the breakdown of the panels, shorter than the minimum length combined to make longer lengths as shown here, where the 15’1″ panel is made up of 1/7’2″, 1/6’2″ and 1/1’9″.



Plane - 212.13 Sq. Ft.

Qty	Linear Feet	Total Lin. Feet	Qty	Linear Feet	Total Lin. Feet
1	15' 1"	15' 1"	1	12' 9"	12' 9"
3	14' 5"	43' 3"	1	12' 7"	12' 7"
SubTotal	6	Panels			83' 8"

Minimum Panel Length Breakdown
1 / 15' 1" above made up of 1/7' 2", 1/6' 2", 1/1' 9".

This is done to reduce packing and for ease of handling.

Line Item Key Text Strings

Line items are values generated by the software and displayed in the **Reporting > *Supply Only*** or ***Supply and Install*** dialog box.

Using Line Items is a standard function of the software and is typically used to extract values for your reports based on calculated values using the Line Items where the value will vary with each job and quotation calculation.

For Word or Excel based report templates only:
For Line Item calculations to be determined in a report by the software (for Word or Excel based report templates only), the key text string for that Line Item must be preceded by two ## signs. This is a variation on the use of the # signs for the AppliCad CAD based reports where three # signs are used. This is to ensure that the right calculation is being used in the right report.

##LI string search not only looks for the whole category, but also searches for a substring within the category also.

These text strings mimic the values in the costing dialog box. More exactly, they mimic the LineItem records in the grim file. This kind of text string is in the form:

##LI _<LineItemCategory>_<subcategory>_<LineNumber>

where <LineitemCategory> is the category you see in the costing dialog

and <subcategory> is one of SUP, CODE, PRO, FIN, QTY, RATE, TOT, DISC, SUB, COL
where SUP = Supplier; CODE = Product Code; PRO = Profile; FIN = Finish; QTY = Quantity; RATE = Cost; TOT = Total; DISC = Discount; SUB = Sub -Total; COL = Colour.

and <LineNumber> finds the instance of that category in the event that you have multiple line items of the same category.

For example, the Key Text String (KTS) ##LI_Roof Tiles_Qty_1 represents the code of the roof tiles category will insert that line item's details into the required report.

So the key text string in the Word or Excel template would look like this – **##LI_Roof tiles_Qty_1**

##<LI>(for line item)*space*<**Category**>(of Material)_(underscore)<**Qty**>(for quantity of material)_(underscore)<**LineNumber**>

An example of fascia quantities with different fascia items in the material list:
##LI_Fascia_Qty_1
##LI_Fascia_Qty_2
##LI_Fascia_Qty_3
if you have three different fascia types on the same job as standard.

Another example for quantity of tile ridge and hip accessories might be,
for the **CAD file report template format**:
%CALC[###LI Ridge Tiles_Qty + ###LI Hip Tiles_Qty]:0
and for the **Word/Excel file report template format**:
%CALC[##LI_Ridge Tiles_Qty + ##LI_Hip Tiles_Qty]:0

The CAD versions you use three #, whereas for the Word/Excel version you use 2 #'s. With the Word and Excel versions, you also need to use an underscore after the LI to differentiate the actual word from an instruction.

The structure for Word/Excel is:

##LI_<Category>_<Sub-Category>_<Line-Number> where the use of the underscore between each element in the key text string is essential.

Category	**Sub-Category**	**Line-No**
COVER *(roof cover material)* FLASHFITT *(flashing or fittings)* ACCESS *(accessories)* FAST *(fasteners)* SEARCH *(anything)*	MAN *(manufacturer)* SUP *(supplier)* DESC *(description)* QTY *(quantity)* RATE *(cost rate per item)* SUB *(sub-total cost)* DISC *(discount)* TOT *(total cost)* CODE *(product code)* FULL DESC *(product description)* FIN *(finish)* GAUGE *(base metal thickness)*	The line number required from the list displayed in the 'Costing' screen.

The syntax for the use of the ##LI_SEARCH function is typically as shown below, used in this example to find an additional freight charge in the list of line items:

Additional Freight Charge $##LI_SEARCH(FRGHT)_Sub_1

This KTS searched for the category FRGHT anywhere in the list of items under Costing and returns the Sub-Total of the first 'FRGHT' item in your list. The text 'Additional Freight Charge' and the '$' sign complete the entry in the report. The search term can be the whole or unique part of the category text.

Further examples of the use of these strings in your template might be:

Cover – Product Code	Description	Quantity
##LI_Cover_Code_1	##LI_Cover_Desc_1	##LI_Cover_Qty_1
##LI_Cover_Code_2	##LI_Cover_Desc_2	##LI_Cover_Qty_2
##LI_Cover_Code_3Etc.	##LI_Cover_Desc_3Etc.	##LI_Cover_Qty_3Etc.
Flashing – Product Code	Description	Quantity
##LI_Flashing_Code_1	##LI_Flashing_Desc_1	##LI_Flashing_Qty_1
##LI_Flashing_Code_2Etc.	##LI_Flashing_Desc_2Etc.	##LI_Flashing_Qty_2Etc.

Where the cover material product code, the description and the quantity for three different cover materials on the job cost summary are shown in your report, followed by two types of flashing.

You can go further as indicated by this example:

This in your template –

Roof Colour	##LI_COVER_FIN_1
Flashing 1	##LI_FLASHFITT_FIN_1
Flashing 2	##LI_FLASHFITT_FIN_2
Flashing 3	##LI_FLASHFITT_FIN_3
Flashing 4	##LI_FLASHFITT_FIN_4
Flashing 5	##LI_FLASHFITT_FIN_5
Flashing 6	##LI_FLASHFITT_FIN_6

results in this in your report –

Roof Colour	Classic Cream
Flashing 1	Classic Cream
Flashing 2	Dune
Flashing 3	Dune
Flashing 4	Facade
Flashing 5	Grey Tint
Flashing 6	Cotta Sand

Yes, this roof would look like a circus tent with all these different colour trims, but you get the idea.

This may take a little set up and testing to get right, but worth the effort as it streamlines so much of the 'hack' work of generating quotations and job reports.
Make sure that every entry is tested thoroughly on your standard test job once completed.

Note: we changed the tiles database (between V8 and V9) to have tile accessories and then had to decide on new category names for these items used the **Accessory Name** as the category name and thus Ridge Tiles accessory name went to category Ridge Tiles etc.

Index	LI Search String	Result
1	MAN	Manufacturer
2	FULLDESC	All 4 fields of the description (separated by commas)
3	QTY	Line Item Quantity
4	RATE	Line Item Rate
5	SUB	Line Item SubTotal
6	DISC	Line Item Discount
7	TOT	Line Item Total
8	CODE	Product Code (first field of description)
9	DESC	Description (second field of description)
10	COL	Colour (third field of description)

11	GAUGE	Gauge (fourth field of description)
12	FIN	Finish (third field of description, but if fourth field non-blank then this field is added, separated by a space)
13	SUP	Supplier (same as MAN, but with secondary supplier field added)

Irrespective of all the above, don't forget you can always take the product code of any item and add it to **AltCategories.CSV** to have the Category name overwritten with something else. This is why, as we have been working through the code over the years, we have endeavored to add product codes to all the items that were missing them. The Tile Accessories and Downpipe structures all changed at this time to allow product codes to be added to the accessory items.

Inline Calculations with Key Text Strings

You can embed key text string values into a text string as a calculation.

***Note** – not all Key Text Strings are 'real' numbers and as such, cannot be used in a %CALC expression. For example, ###PanelLens will provide the lengths of multiple panels in a job, so the %CALC will not know how to handle the result of this KTS in the expression.*

The format of a calculation string is –
%CALC [<expression>]:<precision>

where

%CALC is a key word stating that a calculation exists
[..] the brackets which encompass the expression,
<expression> the expression might be – 2*###TotalIncTax +100
: a colon separating the expression and the precision
<precision> the number of decimal places you want to display

For example, to add 10% to the total price for a job, the total price for you is –
%CALC [###totalinctax + ###totalinctax / 10]:2

If the ###totalinctax amount was 3000, then the amount reported above would be 3300. These calculations are also valid if they are in a Grim Template File too.

Quite complex calculations may be made, for example:

Bal 12.5 to 29 Included:
*$%CALC[(###TotalIncTax*1)+(###RidgeLen+###HipLen+###FasciaBargeLen+(###ValleyLen*2)+###FasciaLen)*2.50*((###QMMARKUP/100)+1)]:0 Inc GST*

Or

Anticon 55 Included:
*$%CALC [(###TotalIncTax * 1)+(###RoofArea*5)]:0 Inc GST*

The text **$** at the front and '**Inc GST**' is not part of the calculation, it is to complete the correct display of the result. These will look like this on your template…

TOTAL	
Sisalation Inc	$%CALC [(###TotalIncTax * 1)]:0 Inc GST
Bal 12.5 to 29 Inc	$%CALC[(###TotalIncTax*1)+(###RidgeLen+###HipLen+###FasciaBargeLen+(###ValleyLen*2)+###FasciaLen)*2.50*((###QMMARKUP/100)+1)]:0 Inc Gst
Anticon 55 Inc	$%CALC [(###TotalIncTax * 1)+(###RoofArea*5)]:0 Inc GST

and display/print like this on your report…

TOTAL	
Sisalation Inc	$3276 Inc GST
Bal 12.5 to 29 Inc	$3625 Inc Gst
Anticon 55 Inc	$4401 Inc GST

Try a few options that suit your own requirements. Don't be concerned if the formula doesn't fit the space – so long as the answer fits the available space, you will be OK.

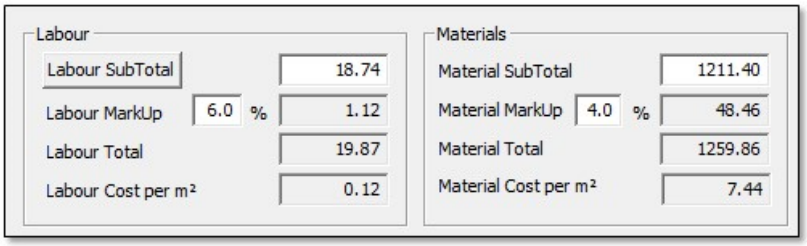
Another useful example of this is if you want to get the material waste for a metal roof to display on your report. There is no specific KTS for this output, but you can get the desired result by using this calculation:
*%CALC[((###SheetArea – ###RoofArea)/###SheetArea)*100]:2 %*

Add the **%** symbol at the end to complete the correct display. As you can see, if the information is available, you can use it.

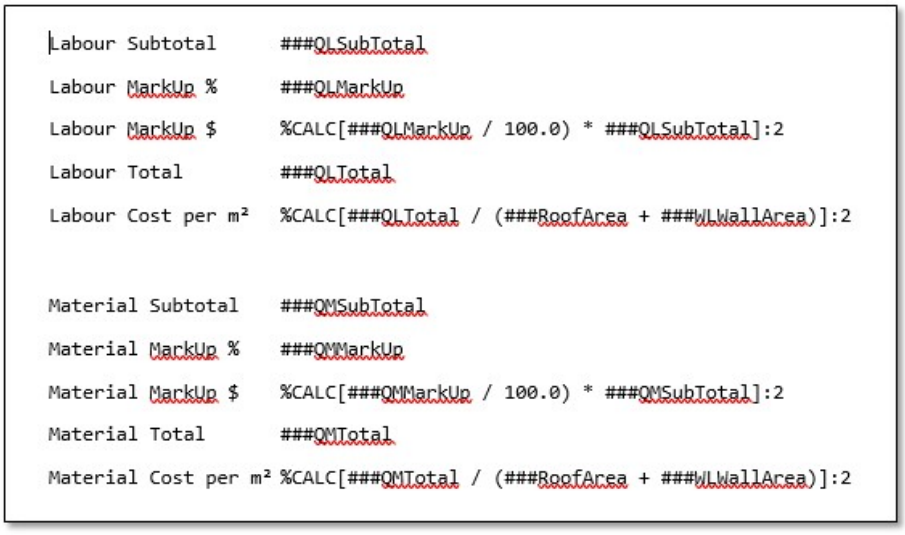
because we have some hyphenated KTSs in Word/Excel land (we did this to make names easier to read etc.) you need to have a space between the subtraction calculations, since the software can't tell whether the – is a subtraction or a hyphen for the next part of the KTS. So, the calculation needs to have spaces around the hyphen (minus sign) to work correctly.

Another useful example is taking the information contained in the Costing dialog and using it to display cost per square…

These are the values in the dialog:



These are the established Key Text Strings:



This is the result:

Labour Subtotal	18.74
Labour MarkUp %	6.00
Labour MarkUp $	1.12
Labour Total	19.87
Labour Cost per m²	0.12
Material Subtotal	1211.40
Material MarkUp %	4.00
Material MarkUp $	48.46
Material Total	1259.86
Material Cost per m²	7.44

This is a very powerful set of functions for detailing your quotations, office costing and inventory etc.

Note – not all Key Text Strings are 'real' numbers and as such, cannot be used in a %CALC expression. For example, ###PanelLens will provide the lengths of multiple panels in a job, so the %CALC will not know how to handle the result of this KTS in the expression.