CHROMIC5 Command List

DESIGNER REVISIONIST BOTH NEITHER

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CHROMIC5

* Command summary
  + Executes GETROOFS, REVLIST, RFTXT and GETSNAPROOFS in succession.
* Detailed summary
  + Gets current Excel roof data and replaces the appropriate roof values for module, orientation and pitch inside the current roof dictionaries. Makes a revision snapshot of the current roof data in the “CURRENT EXCEL ROOFS” sheet. Created a roof text block for the array schedule. Gets roof data from the last sent revision to the township (“REVISION LIST” sheet in excel) and places it in the revision roof dictionaries.
* How to use this command
  + Simply type in the command. Please see explanations for GETROOFS, REVLIST, RFTXT and GETSNAPROOFS.

REVCOUNT

* Command summary
  + Executes MODCOUNTR and SNAPCOUNT in succession.
* Detailed summary
  + Counts all of the roof modules, pitch and orientation on the modelspace for each roof and compares them to the current Excel data of the same roof. Compares and finds the difference between the revision snapshot roof data to the current Excel roof data.
* How to use this command
  + Simply type in the command. Please see explanations for MODCOUNTR and SNAPCOUNT.

MAKEROOFS

* Command summary
  + Makes new variable data for modules, orientations and pitches and sets their value to “N/A”.
* Detailed summary
  + Creates data (keys) for two sets of roof information in the dictionaries. The first set is the current Excel roof information and the second is a snapshot of roof information of the last drawing sent to the township. Each set accommodates up to 40 roofs. Each roof has 3 keys as follows; number of modules on the roof, roof orientation and roof pitch. Overall, 240 data keys are created during this command.
* How to use this command
  + Simply type in the command. Due to the large creation of data, this command may take many seconds. This command will run automatically upon opening a new drawing file.

GETROOFS

* Command summary
  + Gets current Excel roof data and replaces the appropriate roof values for module, orientation and pitch inside the current roof dictionaries.
* Detailed summary
  + Opens up Excel and goes to the bottom of the “CALCULATIONS” sheet. Looks at the roof number in a specific cell and takes the module number, orientation, and pitch of that roof. Looks in the current roof dictionaries to see if there is a current Excel key for the current roof module number which should have been created during MAKEROOFS. If there is, it updates the amount of modules on that roof, in the current roof dictionaries. It does the same for that roof’s orientation and pitch. The program runs again and checks for the next roof in the “CALCULATIONS” sheet in Excel.
* How to use this command
  + Simply type in the command. This command will run automatically upon opening a new drawing file.

REVLIST

* Command summary
  + Makes a revision snapshot of the current roof data in the “CURRENT EXCEL ROOFS” sheet.
* Detailed summary
  + Looks at what is the current revision tag is and then takes all the roof information from the “CURRENT EXCEL ROOFS” sheet and places it in the proper revision tag section in the “REVISION LIST” sheet.
* How to use this command
  + Simply type in the command. This command utilizes VBA rather than AutoLISP. This command will run automatically upon opening a new drawing file.

PROTOQB

* Command Summary
  + Creates the modelspace/RSA dictionaries to place the modelspace roof data in
* Detailed Summary
  + Creates 3 separate dictionaries. One for module numbers, one for pitch number and one for orientation numbers
* How to use this command
  + Simply type in the command. This command is only run during the initial start up of AutoCAD

RFTXT

* Command summary
  + Created a roof text block for the array schedule.
* Detailed summary
  + Takes the max roof value from DWGPROPS. Goes through the current roof dictionary and gets all current Excel module number, orientation and pitch for roof 1 to the max number of roofs and places it in the roof schedule box in Model Space.
* How to use this command
  + Simply type in the command. The roof schedule will appear in the roof schedule box. This command will run automatically after the .genesis file is brought in.

MODCOUNT

* Command summary
  + Counts all of the roof modules, pitch and orientation on the modelspace for each roof and compares them to the current Excel data of the same roof.
* Detailed summary
  + Takes the modelspace roof data from the dictionaries and compares it to the current Excel roof data in the dictionaries. This command will run automatically after the .genesis file is brought in. If there is a discrepancy between the modelspace data and the current Excel data, there will be a popup stating the specific discrepancy. If the block has been previously created but is not on the modelspace, the program will prompt to either Remove the block from the drawing’s block database or recreate the block using the QUICKB command.
* How to use this command
  + Simply type in the command. If prompted to remove or recreate the block, be very careful to check for discrepancies. If you are sure you need to remove, select “Remove” and the roof block will be purged from the drawing’s block database. If prompted to remove or recreate the roof block and you need to recreate, please see the QUICKB command section.

UPDATEAPPSNOW

* Command Summary
  + Gathers the electrical information from the modelspace and the Excel sheet
* Detailed Summary
  + Grabs the Racking, Inverter type, Interconnection type, Main disconnect type, Unfused disconnect, Production meter, OCPD amperage, DC system size, AC system size and Total panels
* How to use this command
  + This command is not used, only utilized in other functions. This command is a C# based command

GETSNAPROOFS

* Command summary
  + Gets roof data from the last sent revision to the township (“REVISION LIST” sheet in excel) and places it in the revision roof dictionaries.
* Detailed summary
  + Opens up Excel and looks into the last revision tag cell on the “FORM” sheet. It then goes to the “REVISION LIST” sheet taking the roof information from the proper revision tag. The roof information includes the roof module number, pitch and orientation. Each piece of roof data in the revision tag list is placed in its designated key in the revision roof dictionaries.
* How to use this command
  + Simply type in the command.

SNAPCOUNT

* Command summary
  + Compares and finds the difference between the revision snapshot roof data to the current Excel roof data.
* Detailed summary
  + Looks to see which roof blocks are on the drawing and then it goes through the revision roof dictionaries and compares what is in the current Excel roof data and the last revision snapshot roof data. If there are discrepancies, the designer/revisionist will receive a pop up letting them know what changed.
* How to use this command
  + Simply type in the command. Keep in mind the content of the popups if it is accurate.

QUICKB

* Command summary
  + Creates a new block and asks the user to name it.
* Detailed summary
  + Prompts the user for the number roof block that they want to create. There is a check as to whether there are any duplicate roof blocks. The current named roof block is purged from the block database and then a new block with the same name is made and placed on the roof. The block’s base point is always at (0,0,0). New roof data for the block is then created inside the modelspace roof dictionaries. This data is only the number of modules for the new roof.
* How to use this command
  + When prompted which roof to create, the designer/revisionist will input the number roof they want to create. If there are duplicates outside the grey box, there will be a popup telling the designer/revisionist to place the duplicate layout in the grey box. The designer/revisionist will have to the command.

QB

* Command summary
  + Creates roof blocks from the .genesis file. Creates the modelspace roof information and places it in the modelspace roof dictionaries.
* Detailed summary
  + Finds the maximum amount of roofs on the drawing and places it in a key inside DWGPROPS. Places all modules on a single roof and makes them a single block. It takes the orientation and pitch of the current roof and places it in a key in the modelspace roof dictionaries. Then goes onto put the modules on the next roof.
* How to use this command
  + This command is not used by designers or revisionists. It simply runs during the creation of the roof layout from the .genesis file.

RFROT

* Command summary
  + Rotates the roof wireframe and roof IDs.
* Detailed summary
  + Prompts the user to rotate the roof and then executes the ROTID command to rotate the roof IDs to 0°.
* How to use this command
  + Choose a base point, press the “R” key for “Reference”, choose a line and rotate your house.

ROTID

* Command summary
  + Rotates roof IDs to be level.
* Detailed summary
  + Changes all block angles on the “N – ROOF NUMBERS” layer to 0.
* How to use this command
  + Simply type in the command.