



Member Presets

Rev 0, Created 10 September 2021

Presets in Structural Toolkit can be used to save modules with different default values that can be easily selected from. These presets can be used across projects and are saved within the user's settings folder. Presets have a variety of uses: e.g., creating standard member designs, or designating entire projects to have tiled or sheet roofs. This document aims to explain how to create presets and use them.

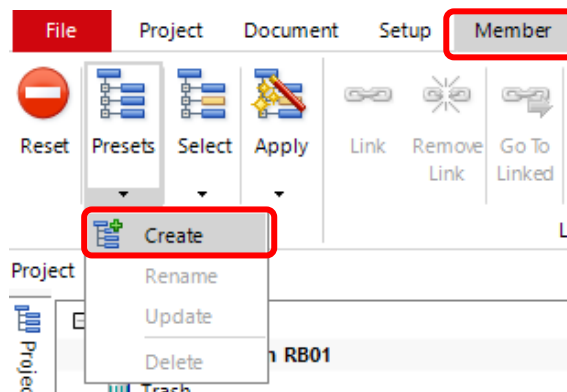
Creating Member Presets

To create a preset for a module, fill in the desired default values (this can also include a member size). In the case below, a set of default values have been entered for a typical tiled roof timber beam.

Geometry (For a primary building member)	
Category =	2 (1) House, (2) Primary building elements, (3) Important
Span (L) =	3000 mm
Centres (cts) =	600 mm
Span type =	S (S)ingle,(D)ouble
Edge restrained (down) =	C (T)ension,(C)ompression,(B)oth
Lay.t (Top) =	600 mm

Loadings	
Roof area (A) =	1.80 m ²
LL = 1.8/A+0.12 ≥ 0.25 =	1.12 kPa
Apply wind reduction =	Y (Y)es,(N)o
Roof reduction (Ka) =	1.00 AS/NZS 1170.2, Table 5.4
Ratio Ws/Wu =	0.68 (Refer wind analysis)
Uniform dead loads	
Roof dead load (wdl) =	0.90 kPa *
Wall dead load (wdl) =	kPa *
Include S.Wt =	Y (Y)es,(N)o
600 mm +	kN/m = 0.54 kN/m
mm +	kN/m = 0.00 kN/m
S.Wt =	0.06 kN/m
Σwdl =	0.60 kN/m
Uniform live loads	
Roof live load (wll) =	1.12 kPa *
Other live load (wll) =	kPa *
Alternate point live load =	1.40 kN (critical)
600 mm +	kN/m = 0.67 kN/m
mm +	kN/m = 0.00 kN/m
Distr. to	1 members
Σwll =	0.93 kN/m
Uniform wind loads	
Ult. wind load (Wu) =	0.84 kPa *
Cp,e =	0.9
Cp,i =	0.2
600 mm	
Σwwl* =	-0.55 kN/m (up)
Point loads	
Dead load (pdl) =	kN
Live load (pll) =	kN
Wind load (pwl*) =	kN (-ve up)
Position =	1500 mm from LHS
Shear using PL at support =	Y (Y)es,(N)o

Once the values have been set, the preset can be saved in the [Member] tab under the [Presets] dropdown.

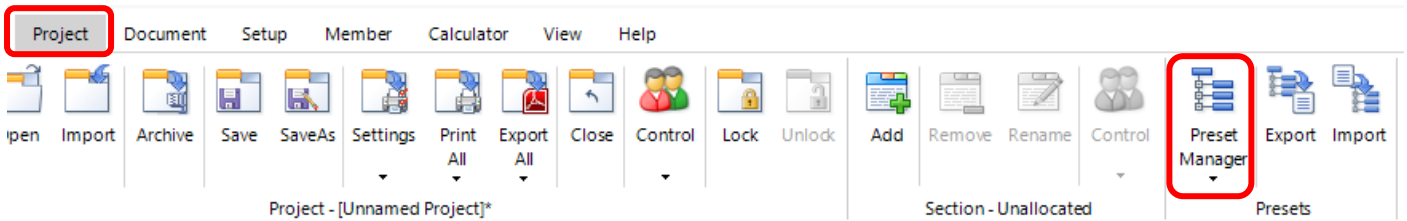




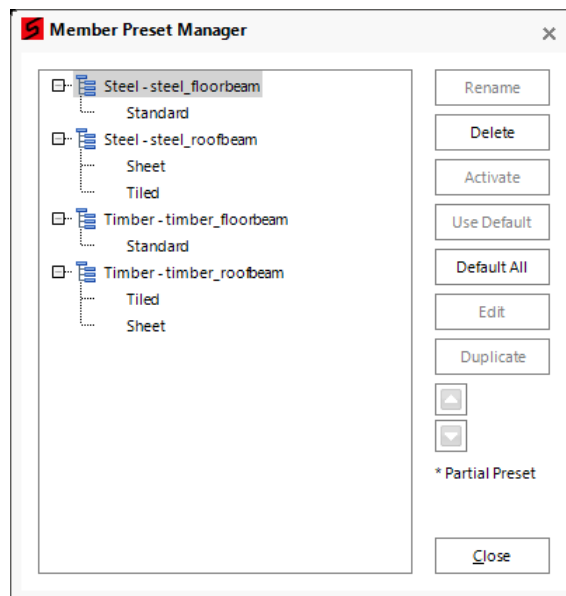
The user will then be prompted to give the preset a name. This process can be completed multiple times for any valid member in Structural Toolkit – effectively creating a library of presets.

Using Member Presets

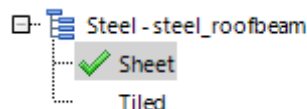
To use a created preset, it needs to be set as the active preset for the module. This can be done in two ways. The first way is from the [Project] tab, by clicking on the [Preset Manager].



The preset manager will show all presets that have been created by the user.

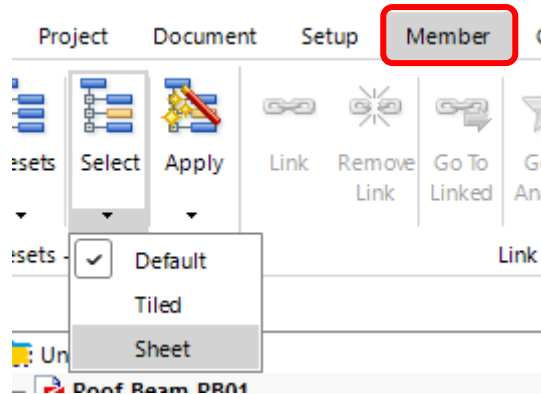


Within this interface, the desired presets can be activated for each module by either double-clicking or selecting it and pressing [Activate]. This will then show a green tick next to its name as seen below. Note the original default values can be used by pressing [Use Default] or [Default All]. Also note the selected preset will also persist to new projects until a different preset is selected.



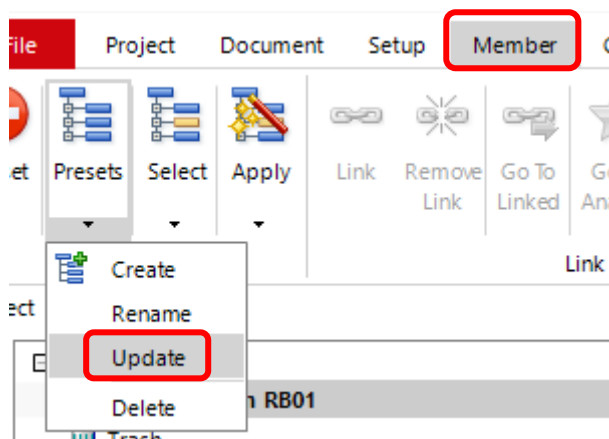


The second way a preset can be set as active is within a module itself. Under [Member] and the [Select] dropdown, a valid preset can be set as active. [Apply] can then be pressed to apply the active preset to the current open document.



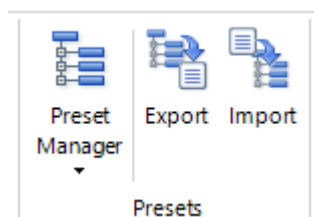
Updating a Preset

If values in an existing preset need to be updated, this can be done under the [Member] tab and [Presets] dropdown – the same location a preset is created. Ensure the preset to be changed is set as active, then change the values as needed and press “Update”. Note that the default preset cannot be changed.



Exporting and Importing Presets

Preset libraries can be shared with other users by using the export and import functions. These are found under the [Project] tab, titled as [Export] and [Import]. By exporting the presets, a zip file will be created, which can then be transferred to another computer and then imported in.



If you have any questions about creating and using presets, contact our support team.