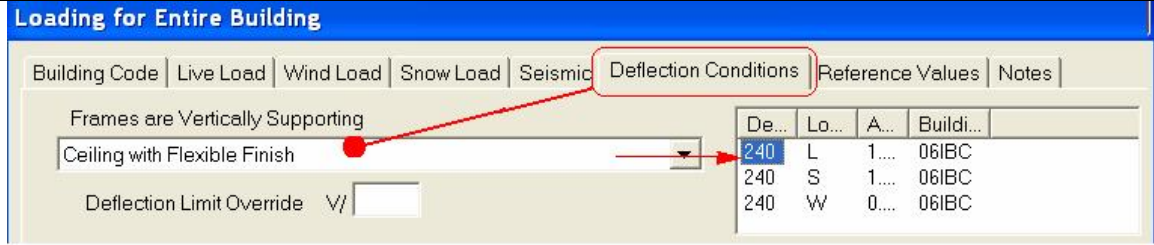


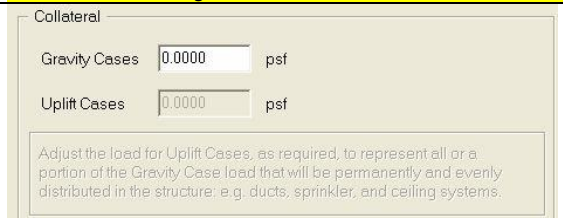
VPC-Tip #57 – Collateral / Deflection Discussion

1) Deflection Question: Really has to do with “what” is being suspended or supported by the roof secondary and frames, and NOT dependent on the magnitude of the Collateral Loads.

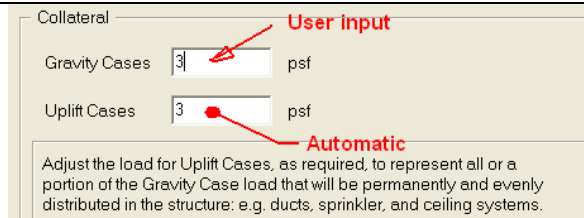


If the Collateral Loads represent a weight that includes a flexible drop ceiling, then when selected under VPC's Deflection Conditions screen, the appropriate deflection will be supplied by VP Command.

2a) Jobs newly created in VPC 5.5/5.5a:

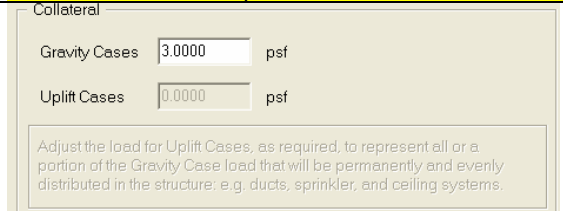


The Live Load screen looks as shown before any Collateral entry is made. Note the message at the bottom of the fields; its stays "grayed out" meaning not applicable.

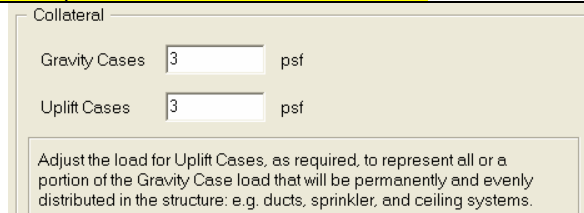


A Collateral value of 3 psf is input AND vpc automatically assumes that all of that amount is similar to dead load on the building; hence the "grayed out" message lights up (becomes applicable to the user). The user must then determine if ALL of the Collateral load fits the description of the "lit up" message. If some of the Collateral load (say 1 psf) is meant for future loading or is not evenly distributed over entire floor plan, then the uplift field will be revised to 2 psf (3 -1). VPC will then design for worst case combinations

2b) Jobs created prior to VPC 5.5/5.5a, but opened in Version 5.5/5.5a



When filled-in in an earlier version than 5.5, the Collateral fields is as shown. The Gravity Cases remain filled-in, however the Uplift Cases remain "grayed out".



The user MUST re-enter the Gravity Cases value at which point both fields will become available for input.