VE convention for internal constructions and windows orientation

Construction layers within Apache construction database are defined from the outside to the inside.

Construction Layers (Outside To Inside)

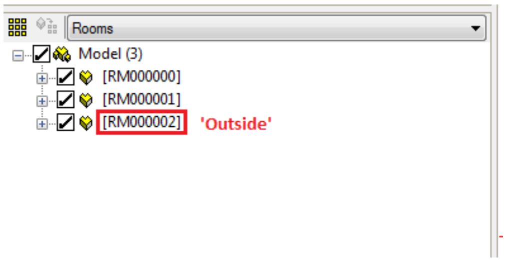
System Materials... Project Materials...

Material	Thickness mm	Conductivity W/(m·K)	Density kg/m³	Specific Heat Capacity J/(kg·K)	Resistance m²K/W	Vapour Resistivity GN·s/(kg·m)	Category
[STD_US2] Plasterboard	12.5	0.2100	700.0	1000.0	0.0595	0.000	Plaster
Cavity	50.0	-	-	-	0.1800	-	-
[STD_US3] Plasterboard	12.5	0.2100	700.0	1000.0	0.0595	0.000	Plaster

However, when we deal with internal construction such as internal partition both sides of the construction are inside the building. In this case the orientation of internal partitions is determined from the relative ordering of the adjacent spaces in the room browser (the index numbers). The convention is that the 'inside' of the internal partition is the side facing the space that appears first on the browser (has lower index number) and the 'outside' would be the room further down the list (has higher index number).

The convention is the same for internal windows placed in between two rooms. In MacroFlo when assigning 'degree of opening modulating profile' to a window and the profile contains a formula reference to the adjacent room (a_), the space with higher ID number would be the 'adjacent room'.

For example if the wall or window between room RM000001 and room RM000002 is considered, the room RM000001 would be the 'inside' and RM000002 would be the 'outside'.



Room index can be viewed in the ModelIT application on the room data bar when a room is selected or in the room # column in ModelIT tabular room data.

Room number index starts at 0.