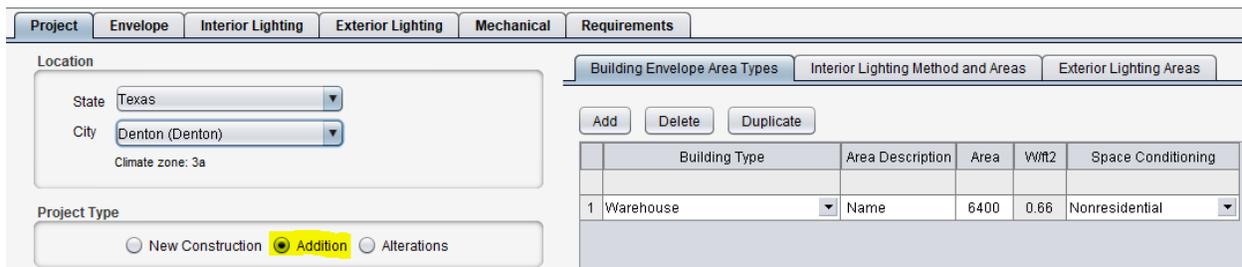


Energy Codes: Building Additions in COMcheck

By Tim Belcher, NBG Energy Lead — March 2019

This month's Energy Codes article focuses on how to deal with building additions in COMcheck. More specifically, how we deal with shared walls between an Existing Building and a Building Addition.

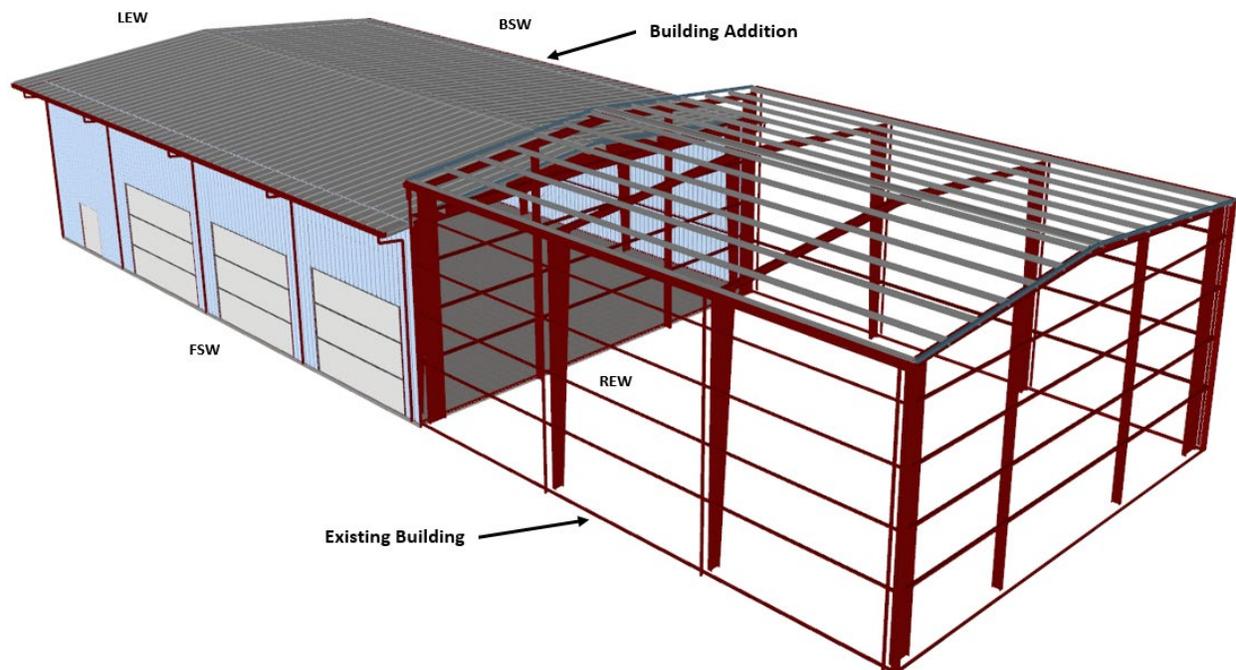
When entering a building addition in COMcheck you must first select the "Addition" Project Type from the Project tab.



The screenshot shows the COMcheck software interface. The 'Project' tab is selected, and the 'Addition' radio button under 'Project Type' is chosen. The 'Location' section shows 'Texas' for State and 'Denton (Denton)' for City, with a climate zone of '3a'. The 'Building Envelope Area Types' table is visible, containing one entry:

	Building Type	Area Description	Area	Wt/2	Space Conditioning
1	Warehouse	Name	6400	0.66	Nonresidential

Additions are treated the same as New Construction in COMcheck except that common walls shared between the existing building and the addition are ignored. This means that no information should be input for those common walls. In the labeled rendering below you can see the "REW" is shared by the existing building (shown as framing) and the building addition (shown with exterior panels).





Energy Update

If entering the above building in COMcheck you would see the building walls entered as depicted below with the LEW, FSW, and BSW walls appearing on the Envelope tab. The REW would not be included because it is shared with the existing building.

Project									
Envelope		Interior Lighting		Exterior Lighting		Mechanical		Requirements	
Roof	Skylight	Exterior Wall	Semi-Exterior Wall	Window	Door	Basement	Floor		
	Component	Assembly	Building Area Type	Orientation	Fenestration Details	Construction Details	Gross Area or Slab Perimeter	Units	
▼ Building									
1	FS Roof	Metal Building - Standing Seam	1 - Name (...)			Filled Cavity with Thermal Blocks	3211	ft2	
2	BS Roof	Metal Building - Standing Seam	1 - Name (...)			Filled Cavity with Thermal Blocks	3211	ft2	
3	LEW	Other Metal Building Wall	1 - Name (...)	West			1685	ft2	
4	FSW	Other Metal Building Wall	1 - Name (...)	South			2500	ft2	
5	Door 1 (Overhead 240" x 168")	Other Door				Non-Swinging	280	ft2	
6	Door 2 (Overhead 240" x 168")	Other Door				Non-Swinging	280	ft2	
7	Door 3 (Overhead 240" x 168")	Other Door				Non-Swinging	280	ft2	
8	Door 4 (WalkDoor 76" x 86")	Other Door				Swinging	45	ft2	
9	BSW	Other Metal Building Wall	1 - Name (...)	North			2500	ft2	

A scenario where the REW from the above referenced rendering would be included is if the REW of the new building were higher than the shared wall of the existing building. In this case the new wall area constructed above the existing wall would need to be included because it is part of the new construction.

For more information contact the Energy Hotline at **844-682-6724**.