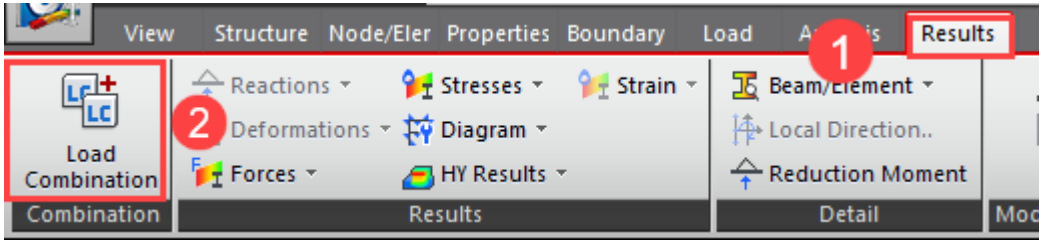
Midas Civil
Self-Learning

Modify Load Combination

midas Civil Learning – Load Combination

Load Combination in midas Civil

midas Civil offers auto-generation of load combinations as per various design codes. However, numerous situations demand users to modify the load combinations manually. This tutorial explains various methods to modify the load combination in midas Civil.



Load Combination Dialog Box

Ways to modify the load combination?

- Use excel to modify load combinations
- Using MCT Command Shell

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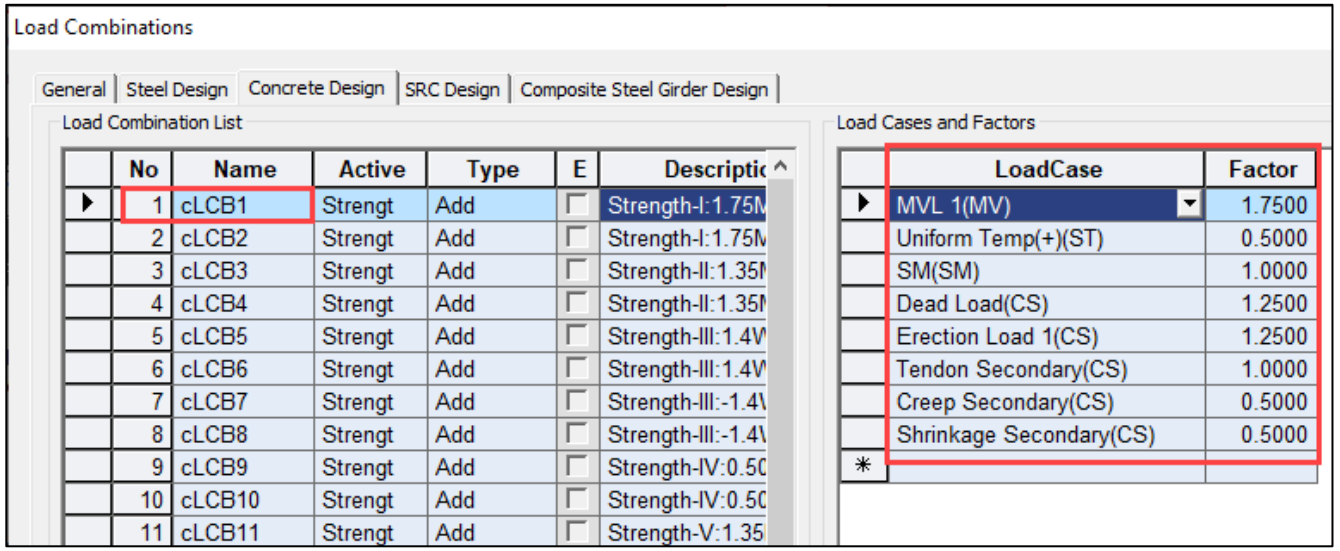

Load Combinations Dialog Box

Terminology & Normal Form

- **cLCB1** represents **Concrete Load Combinations**; c stands for Concrete; LCB stands for Load Combinations
- gLCB1 represents General Load Combinations; g stands for General
- Edit the factors in the right-side **Load Cases** and **Factors** section

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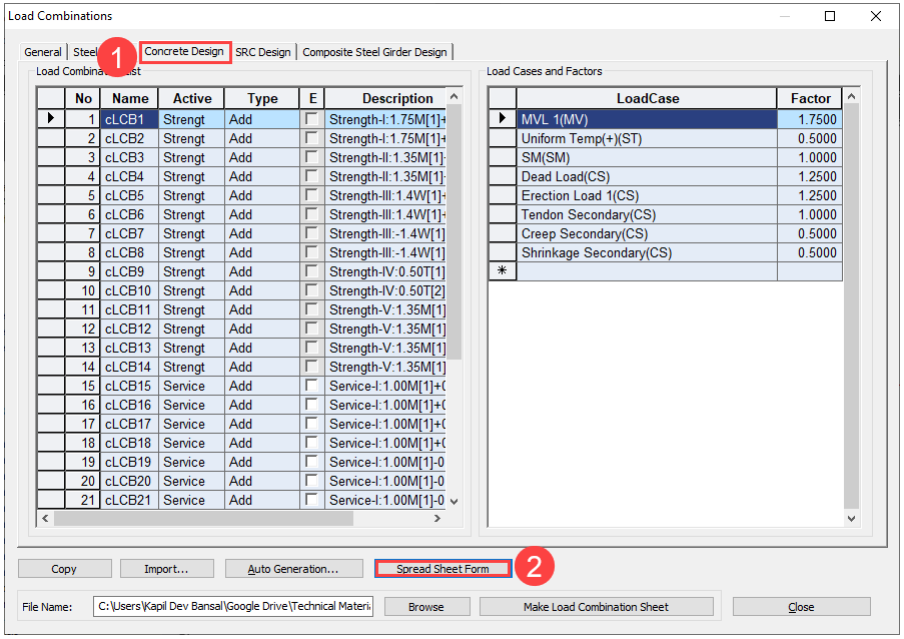
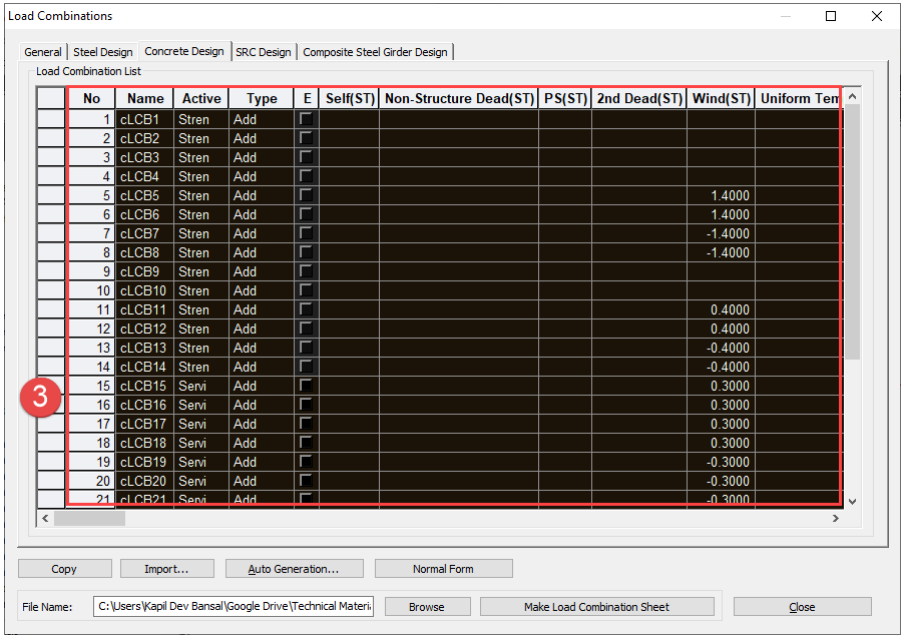


Load Combination Dialog – Switch to Spread Sheet Form



Load Combination Dialog – Copy data

Editing the load combinations using excel file

- Open **Concrete Design** tab in Load Combinations Dialog box
- Change to **Spread Sheet Form**
- Select all the rows using mouse/trackpad and use Ctrl +C to copy the load combination data
- Use Ctrl + V to paste the load combination data in an Excel File

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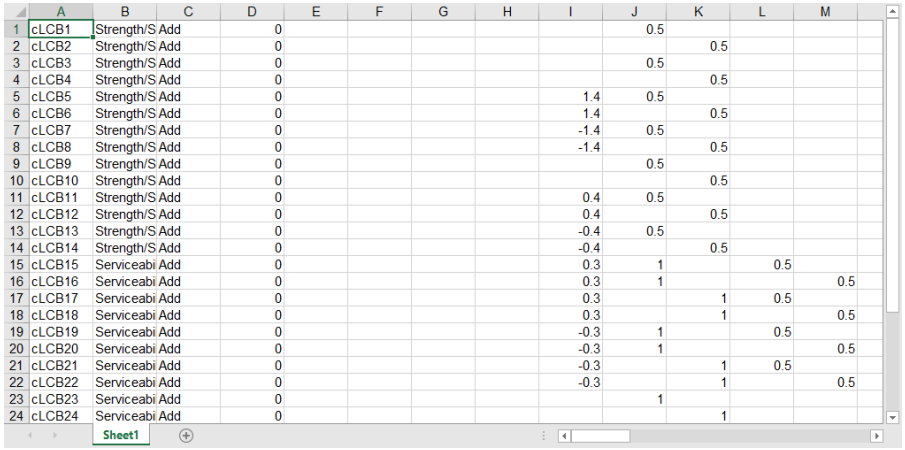

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	cLCB1	Strength/S	Add	0						0.5			
2	cLCB2	Strength/S	Add	0							0.5		
3	cLCB3	Strength/S	Add	0						0.5			
4	cLCB4	Strength/S	Add	0							0.5		
5	cLCB5	Strength/S	Add	0					1.4	0.5			
6	cLCB6	Strength/S	Add	0					1.4		0.5		
7	cLCB7	Strength/S	Add	0					-1.4	0.5			
8	cLCB8	Strength/S	Add	0					-1.4		0.5		
9	cLCB9	Strength/S	Add	0						0.5			
10	cLCB10	Strength/S	Add	0							0.5		
11	cLCB11	Strength/S	Add	0					0.4	0.5			
12	cLCB12	Strength/S	Add	0					0.4		0.5		
13	cLCB13	Strength/S	Add	0					-0.4	0.5			
14	cLCB14	Strength/S	Add	0					-0.4		0.5		
15	cLCB15	Serviceabi	Add	0					0.3	1		0.5	
16	cLCB16	Serviceabi	Add	0					0.3	1			0.5
17	cLCB17	Serviceabi	Add	0					0.3		1	0.5	
18	cLCB18	Serviceabi	Add	0					0.3		1		0.5
19	cLCB19	Serviceabi	Add	0					-0.3	1		0.5	
20	cLCB20	Serviceabi	Add	0					-0.3	1			0.5
21	cLCB21	Serviceabi	Add	0					-0.3		1	0.5	
22	cLCB22	Serviceabi	Add	0					-0.3		1		0.5
23	cLCB23	Serviceabi	Add	0						1			
24	cLCB24	Serviceabi	Add	0							1		

Sheet1

Load Combination Data in MS Excel

Editing the load combinations using excel file

- Edit the load combinations in Excel file
- Copy the exact range of cells in the excel sheet
- Use Ctrl + V to paste the load combination data back in Load Combination Dialog box in midas Civil

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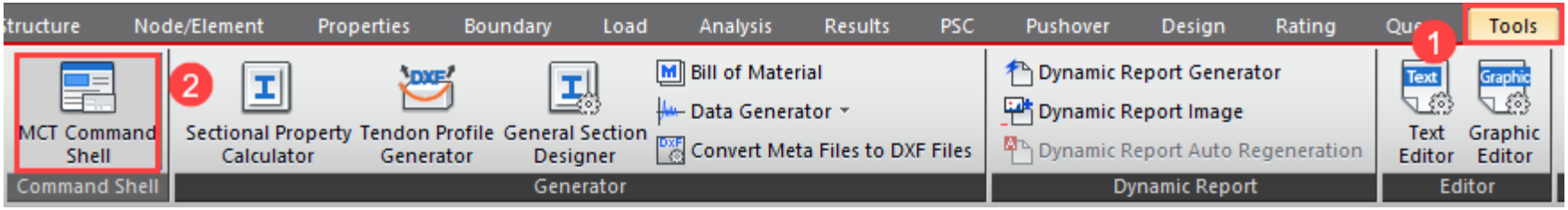

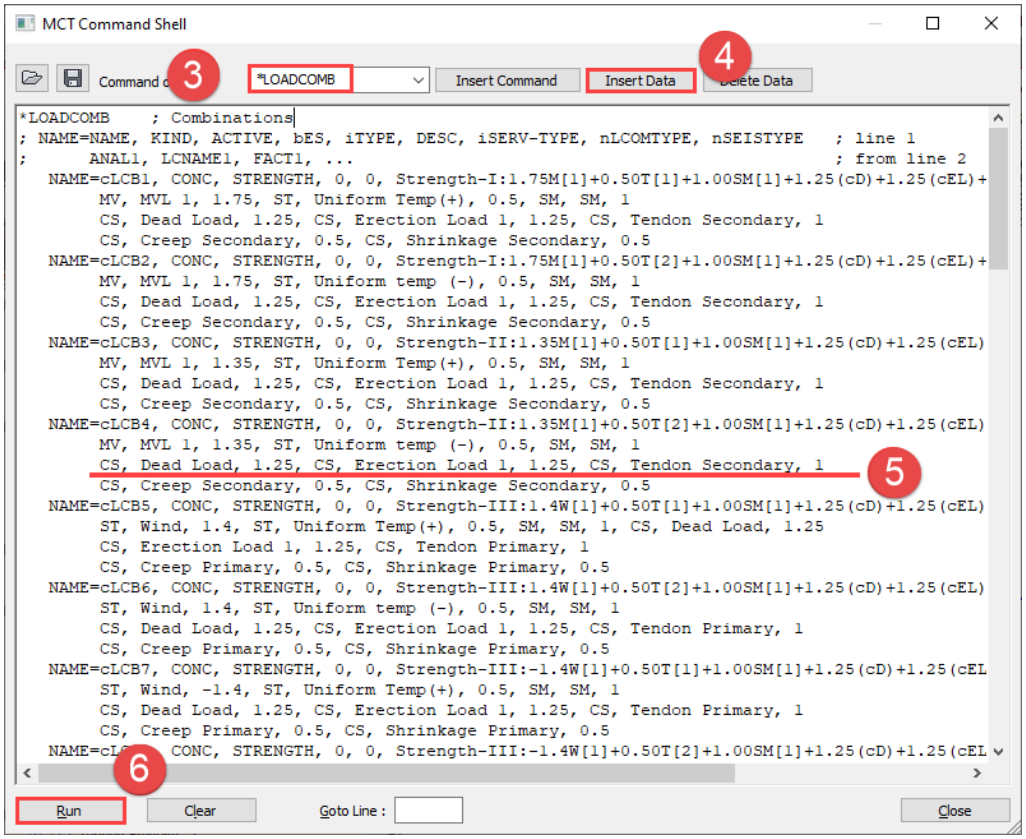

Edit the data in MCT Command Shell

- **Tools > MCT Command Shell…**
- Type ***LOADCOMB**
- Click on **Insert Data**
- Edit the data in the MCT Command Shell
- Click **Run**