

Définition de Cas de Chargement Statique

SAP2000 v17.2.0 Ultimate - (Untitled)

1 Clic sur Load Patterns

2 Ajoute ou Modifie un cas de charge

Validier

Load Pattern Name	Type	Self Weight Multiplier	Auto Lateral Load Pattern
DEAD	DEAD	1	
DEAD	DEAD	1	

Annotations in dialog:

- Nom Permanente (pointing to DEAD)
- Variable Sismique Vent (pointing to QUAKE)
- Validier (pointing to OK)

Define → Load Patterns

Exemple

Load Pattern Name	Type	Self Weight Multiplier	Auto Lateral Load Pattern
E	QUAKE	0	None
G	DEAD	1	
Q	LIVE	0	
E	QUAKE	0	None

Sélection des Dalles

SAP2000 v17.2.0 Ultimate - (Untitled)

1 Clic sur Area Sections

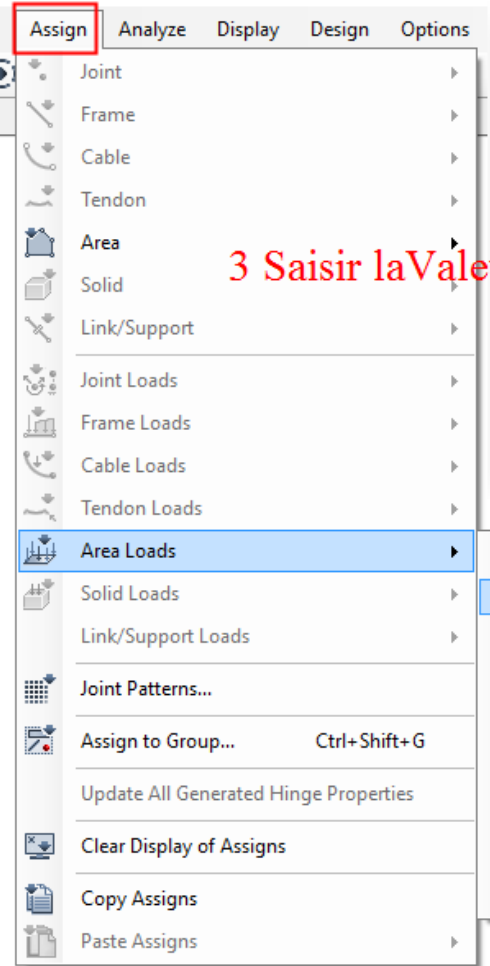
The screenshot displays the SAP2000 software interface. The 'Select' menu is open, showing options like 'Pointer/Window', 'Poly', 'Intersecting Poly', 'Intersecting Line', 'Coordinate Specification', 'Select Lines Parallel To', 'Properties', 'Assignments', 'Groups...', 'Labels...', and 'All'. The 'Properties' sub-menu is also open, with 'Area Sections...' selected. In the bottom-left corner, a 'Select Sections' dialog box is visible, titled '2 Choisir Dalle', with a list containing 'DALLE', 'None', and 'VOILE'. The main 3D view shows a red slab structure with green support points and blue coordinate axes.

2 Choisir Dalle

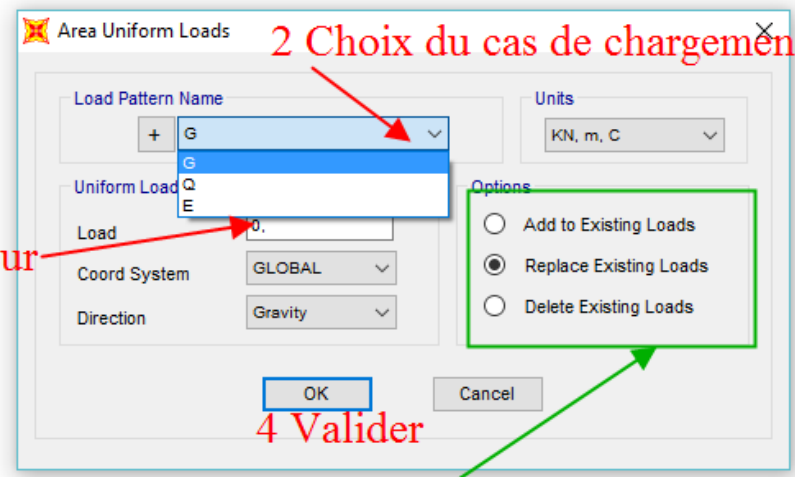
Select → Properties → Area Sections

Chargement des Dalles

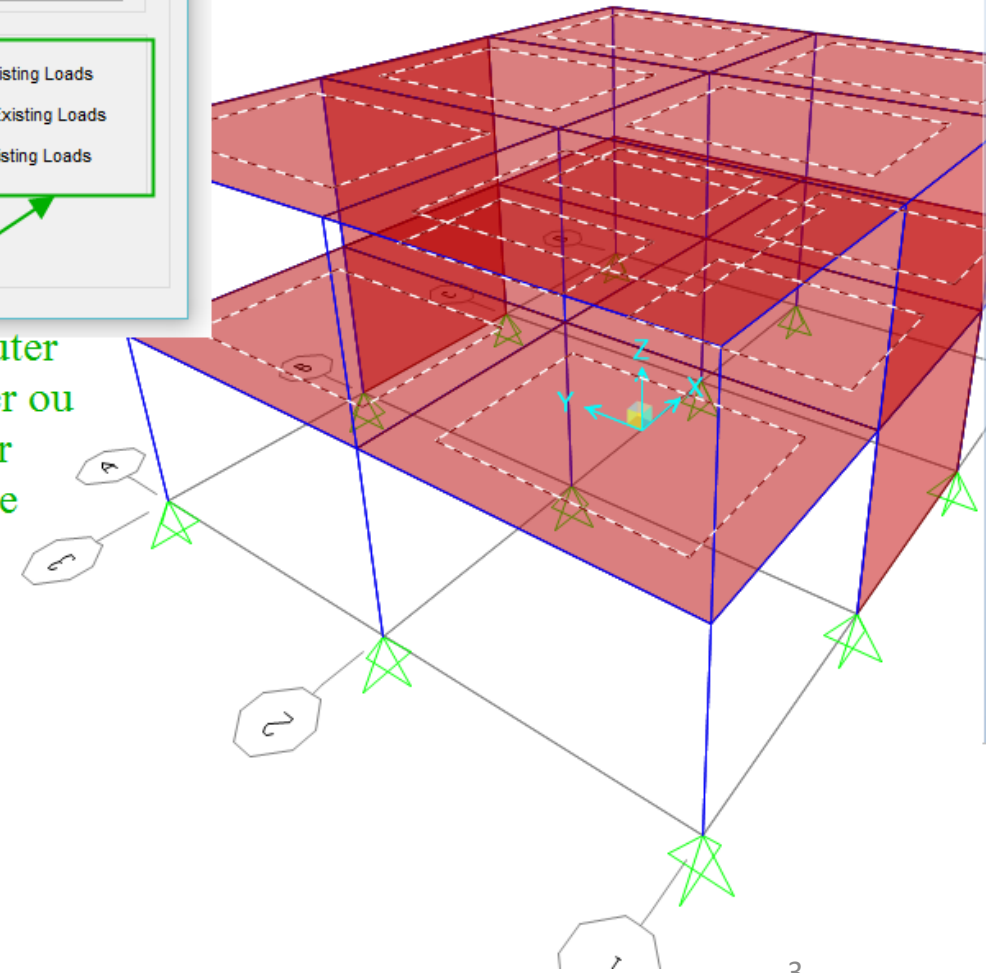
1 Clic sur Uniform



3 Saisir la Valeur



Pour Ajouter
Remplacer ou
Supprimer
une charge



Assign → Area Loads → Uniform (Shell)

Chargement des Nœuds

2 Clic sur Forces

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File Edit View Define Draw Select **Assign** Analyze Display Design Options Tools Help

Joint Loads (E)

Joint
Frame
Cable
Tendon
Area
Solid
Link/Support
Joint Loads
Frame Loads
Cable Loads
Tendon Loads
Area Loads
Solid Loads
Link/Support Loads
Joint Patterns...
Assign to Group... Ctrl+Shift+G
Update All Generated Hinge Properties
Clear Display of Assigns
Copy Assigns
Paste Assigns

Forces...
Displacements...

Joint Forces

Load Pattern Name: + E

Units: KN, m, C

Coordinate System: GLOBAL

Options:
 Add to Existing Loads
 Replace Existing Loads
 Delete Existing Loads

Force Global X: 9.
Force Global Y: 0.
Force Global Z: 0.
Moment about Global X: 0.
Moment about Global Y: 0.
Moment about Global Z: 0.

OK Cancel

1 Selection des Nœuds

3 Choix du cas de chargement

4 Choix de la direction et Saisir la Valeur

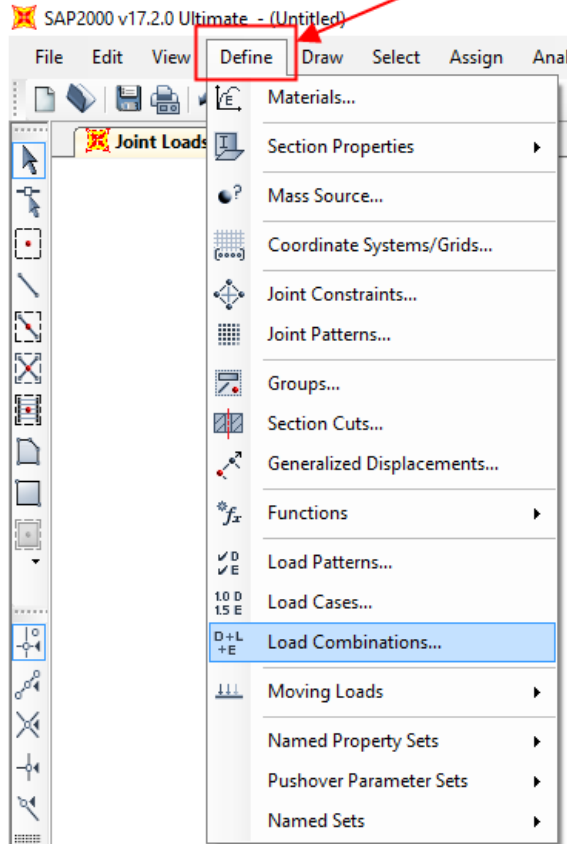
5 Valider

Pour Ajouter Remplacer ou Supprimer une charge

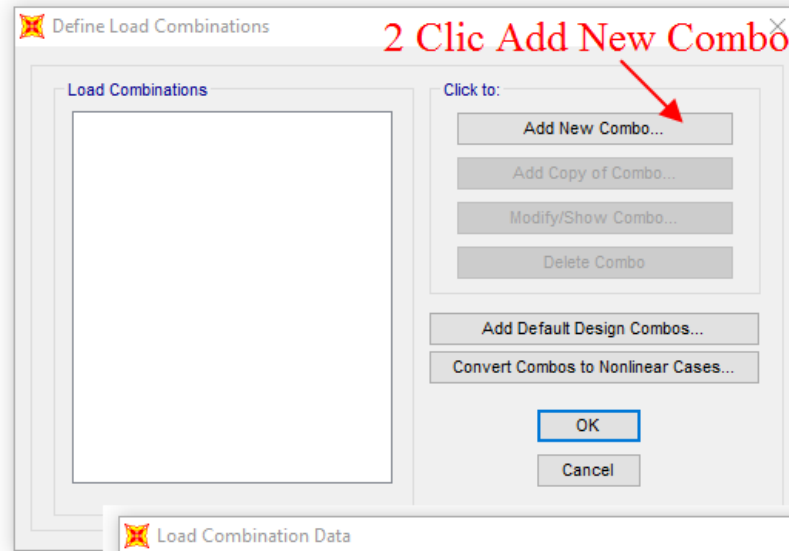
Assign → Joint Loads → Forces

Définition des Combinaisons des Charges

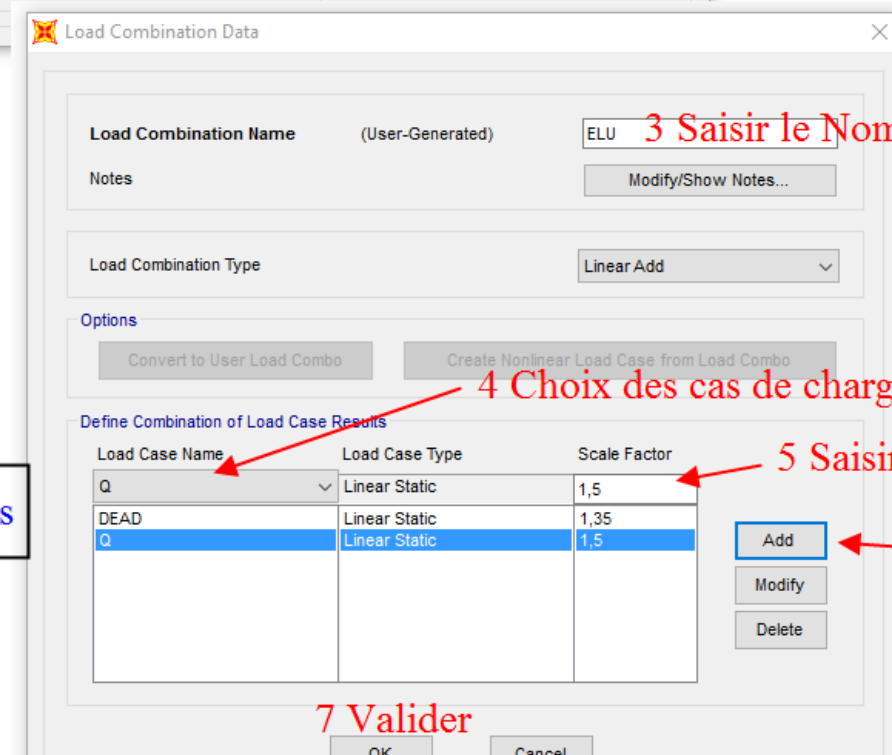
1 Clic Load Combination



Define → Load Combinations



2 Clic Add New Combo



3 Saisir le Nom

4 Choix des cas de charge

5 Saisir le Coef de penderation

6 Clic Add

7 Valider

