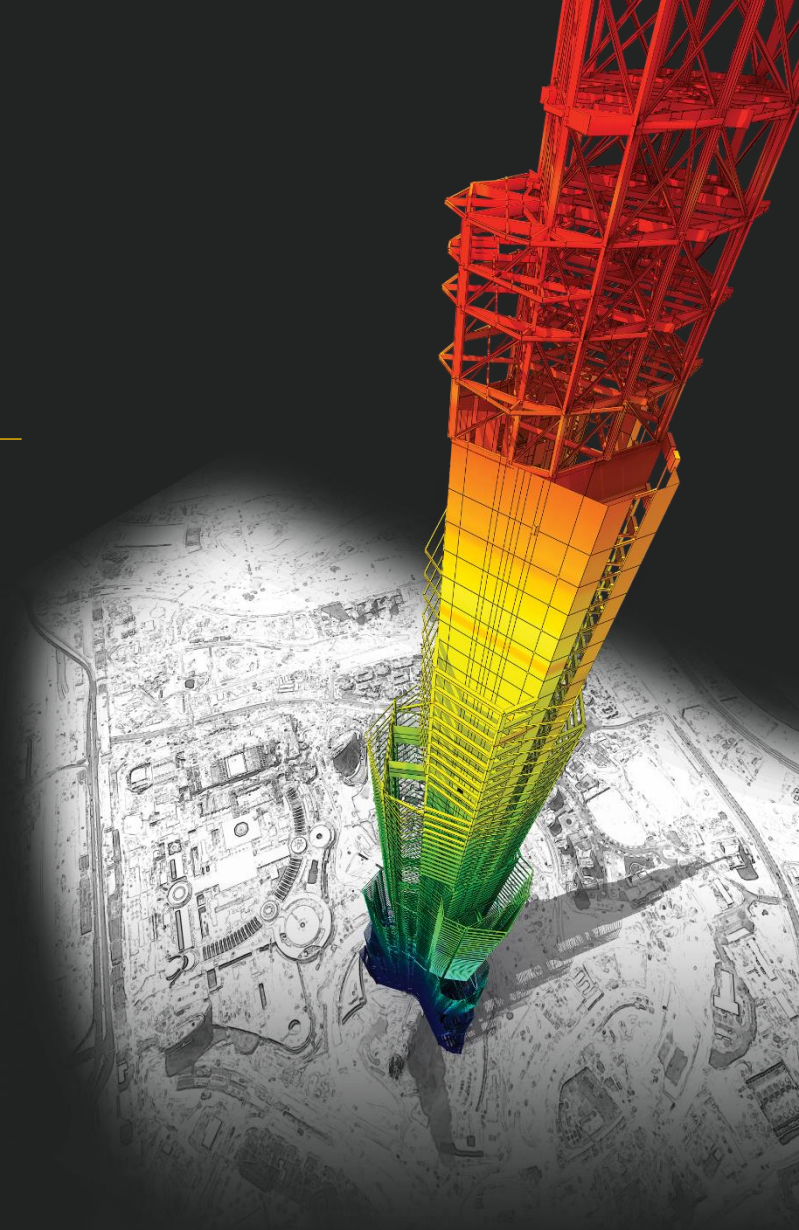




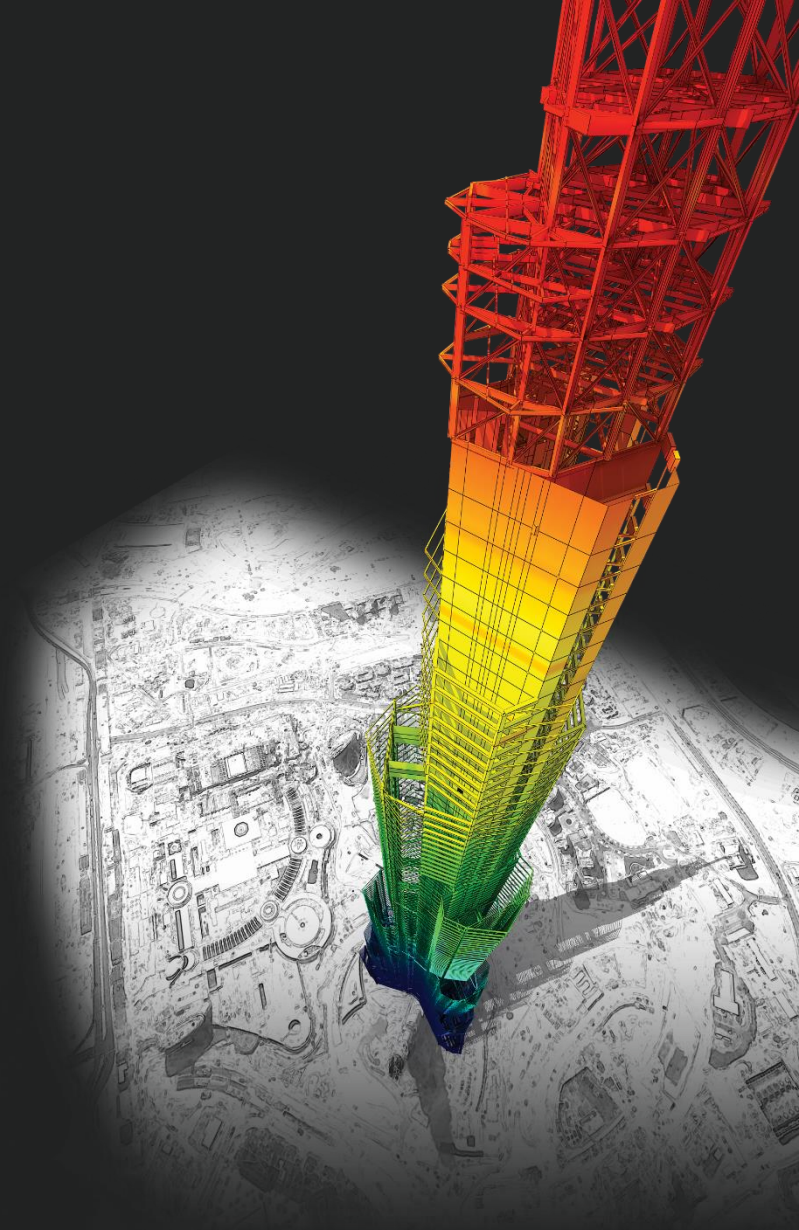
如何定義 Link 在 Pushover 上塑鉸



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回答



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1. 在 Boundary > General Link > General Link Properties > 選 Spring Type General Link

然後按 Inelastic Hinge Properties > 輸入 Inelastic Hinge Properties。

1 選 Element Type 1

2

3

4

DOF	Stiffness	Damping
<input checked="" type="checkbox"/> Dx	19200 kgf/cm	0 kgf*sec/cm
<input type="checkbox"/> Dy	0 kgf/cm	0 kgf*sec/cm
<input type="checkbox"/> Dz	0 kgf/cm	0 kgf*sec/cm
<input type="checkbox"/> Rx	0 kgf*cm/[rad]	0 kgf*cm*sec/[rad]
<input type="checkbox"/> Ry	0 kgf*cm/[rad]	0 kgf*cm*sec/[rad]
<input type="checkbox"/> Rz	0 kgf*cm/[rad]	0 kgf*cm*sec/[rad]

輸入 Inelastic Hinge Properties。

輸入 Inelastic Hinge Properties。

2. 在 Pushover > Hinge Properties > Define Pushover Hinge Properties > 選 Element Type General Link > 輸入 Hinge 參數

The screenshot displays the MIDAS/Gen software interface. The 'Pushover' menu is highlighted with a red box and a red circle labeled '1'. The 'Hinge Properties' sub-menu is also highlighted with a red box and a red circle labeled '2'. The 'Define Pushover Hinge Properties' option is selected, indicated by a red circle labeled '3' and a red arrow pointing to the dialog box. The dialog box, titled 'Add/Modify Pushover Hinge Properties', is shown with a red circle labeled '4' around the 'Interaction Type of RC' section. The 'Component Properties' section is also highlighted with a red box.

1 Pushover

2 Hinge Properties

3 Define Pushover Hinge Properties

4 Interaction Type of RC

Add/Modify Pushover Hinge Properties

Name : LINK Description :

Element Type

- Beam/Column
- Truss
- Point Spring Support
- General Link
- Wall

Material Type

- RC / SRC (encased)
- Steel / SRC (filled)
- Masonry

Wall Type

- Membrane
- Plate

Definition

- Moment - Rotation (M-Theta)
- Moment - Curvature (M-Phi Lumped)
- Consider Hinge Length Integration Point
- Moment - Curvature (M-Phi Distributed)

Hinge Type

- Skeleton Model
- Fiber Model

Axial-Moment Interaction Type

- None
- P-M Interaction
- P-M-M in Status Determination

Fiber Section

- Auto Generation
- User Defined

Section : Fiber Name :

Out-of-plane Nonlinearity of Fiber Wall

Interaction Type of RC

- P-Q Interaction

Component Properties

Component	Skeleton Curve	Properties...
<input checked="" type="checkbox"/> Fx	FEMA	Properties...
<input type="checkbox"/> Fy	FEMA	Properties...
<input checked="" type="checkbox"/> Fz	FEMA	Properties...
<input type="checkbox"/> Mx	Trilinear Type	Properties...
<input type="checkbox"/> My	Trilinear Type	Properties...
<input type="checkbox"/> Mz	Trilinear Type	Properties...

Yield Surface Properties... Masonry Properties...

OK Cancel Apply

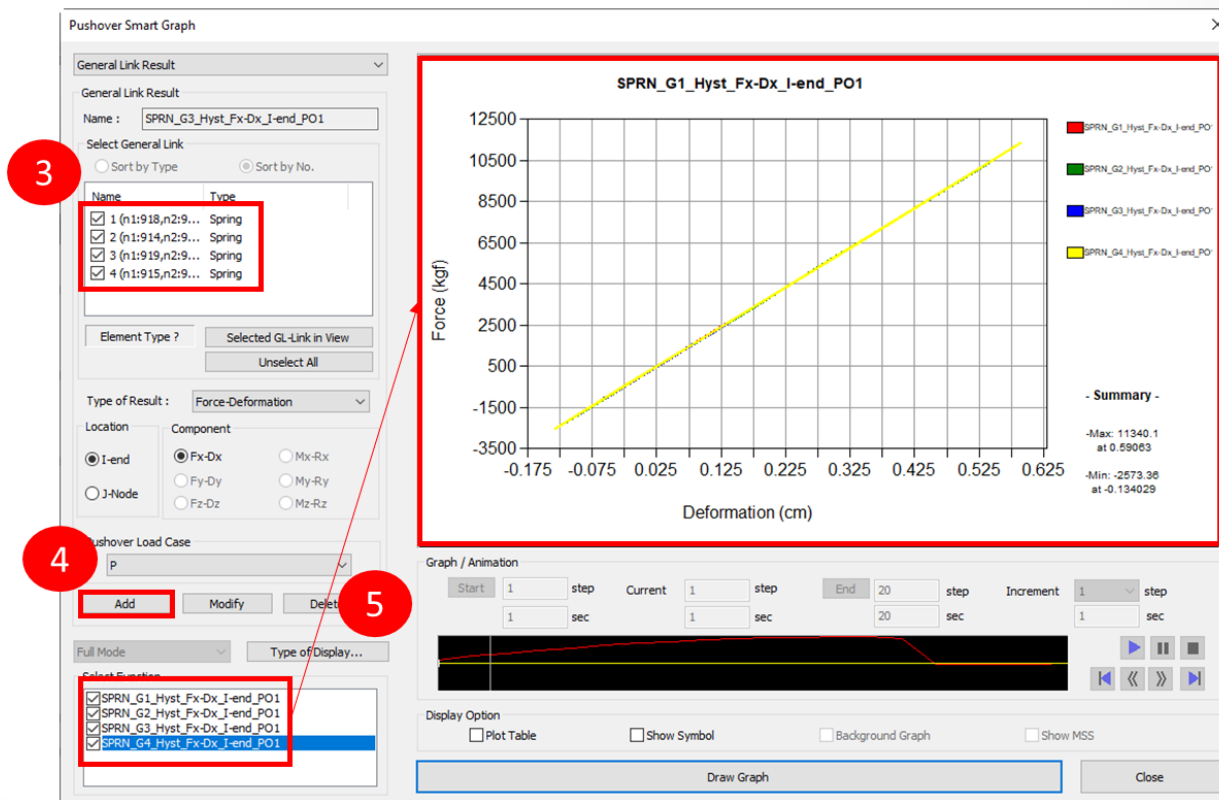
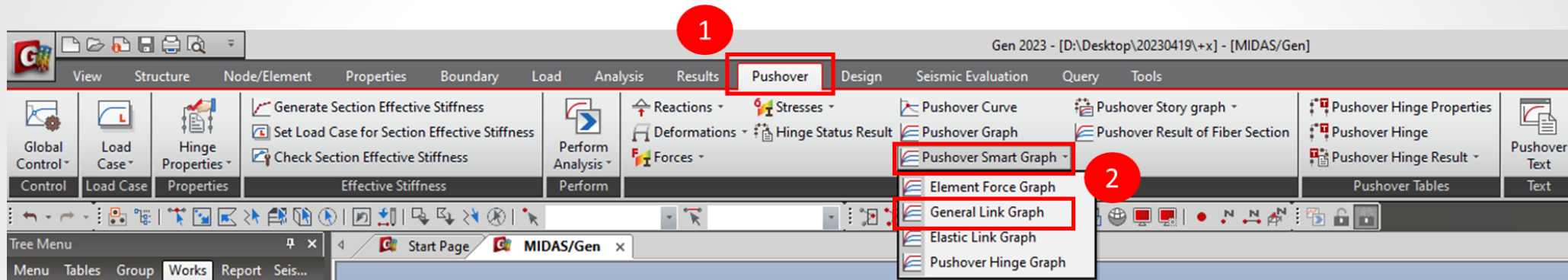
3. 在 Pushover > Hinge Properties > Assign Pushover Hinge Properties > 選 Element Type General Link > 輸入 Hinge

The image displays the MIDAS/Gen software interface with the 'Pushover' menu open. The steps are numbered 1 through 5:

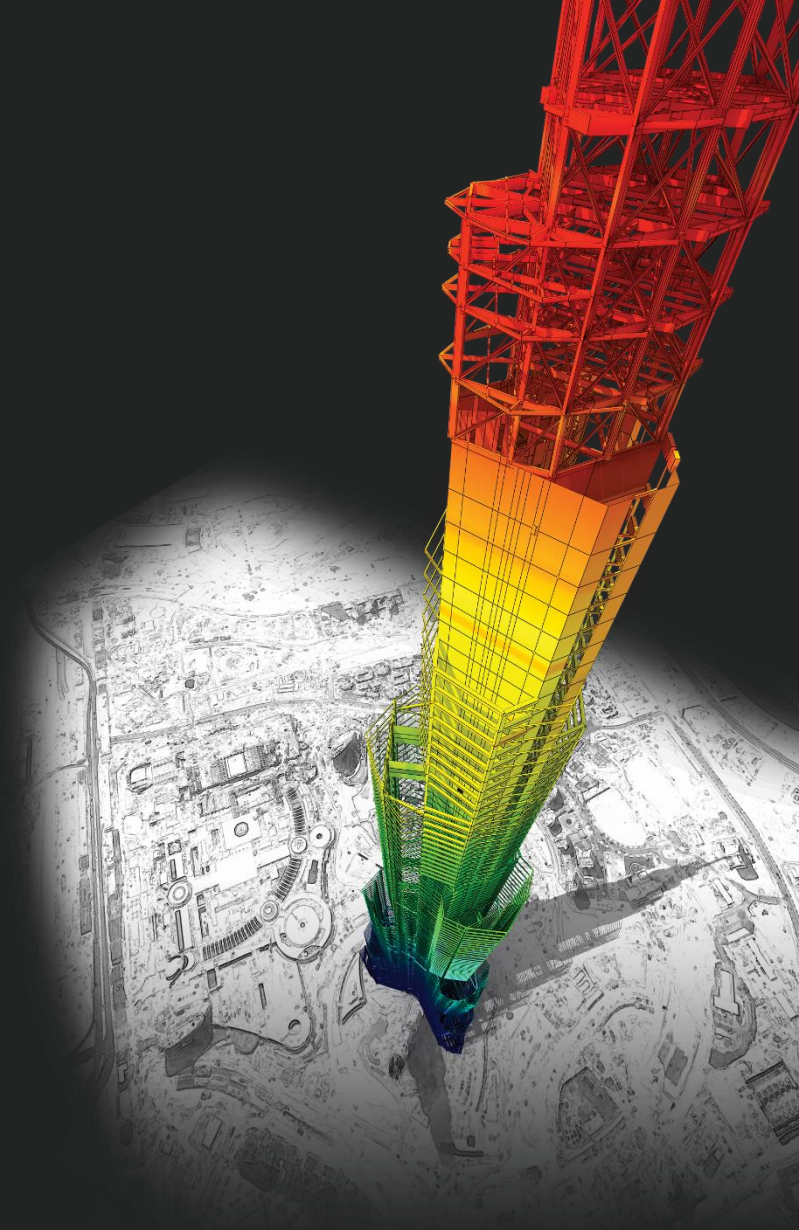
1. The 'Pushover' menu is selected.
2. The 'Hinge Properties' sub-menu is selected.
3. The 'Assign Pushover Hinge Properties' option is selected.
4. In the 'Assign Hinge Properties' dialog box, the 'General Link' radio button is selected under 'Element Type'.
5. The 'Select 2 Nodes' radio button is selected, and the nodes '918,914' are entered in the text field.

The 3D model on the right shows a multi-story frame structure. A red box highlights a vertical link in the lower part of the structure, which is highlighted in yellow in the second view. A red arrow points from the dialog box to this link.

4. 做 Pushover Analysis 以後，在 Pushover Smart Graph > General Link Graph 可以看 General Link Hinge 的結果



Thank You



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