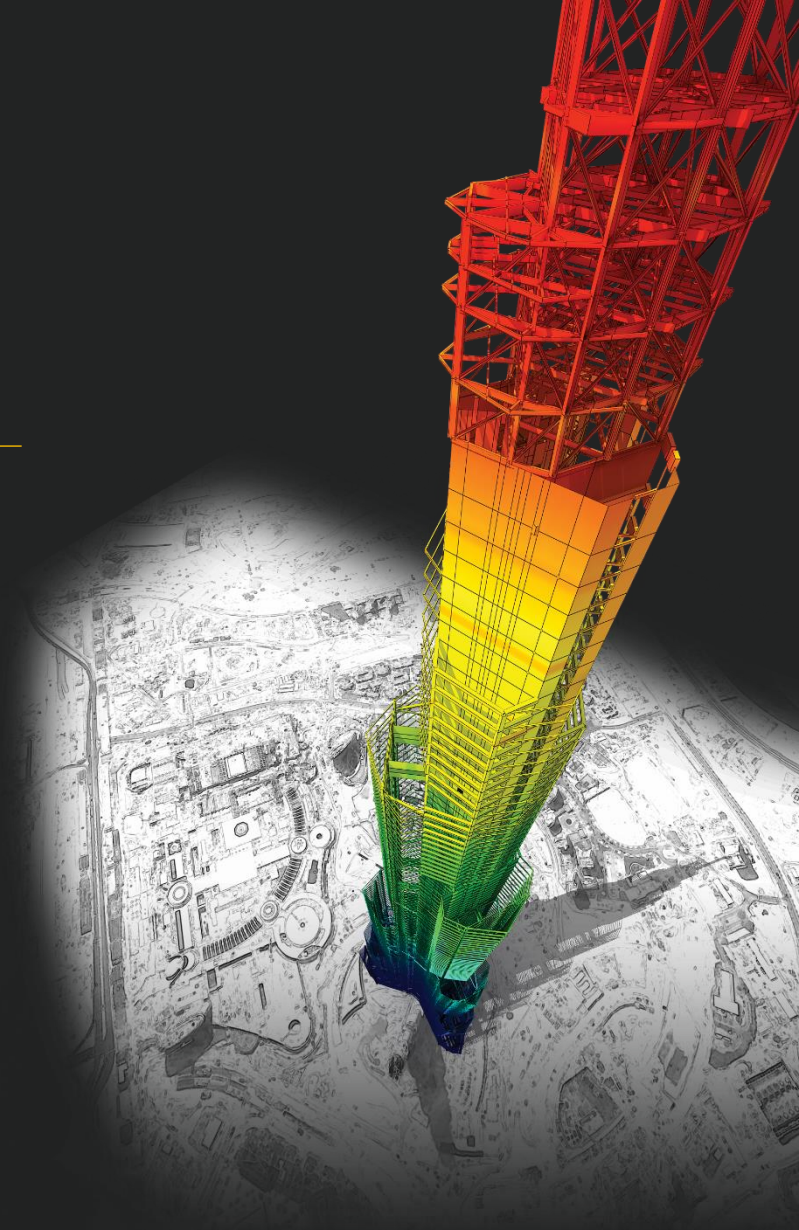


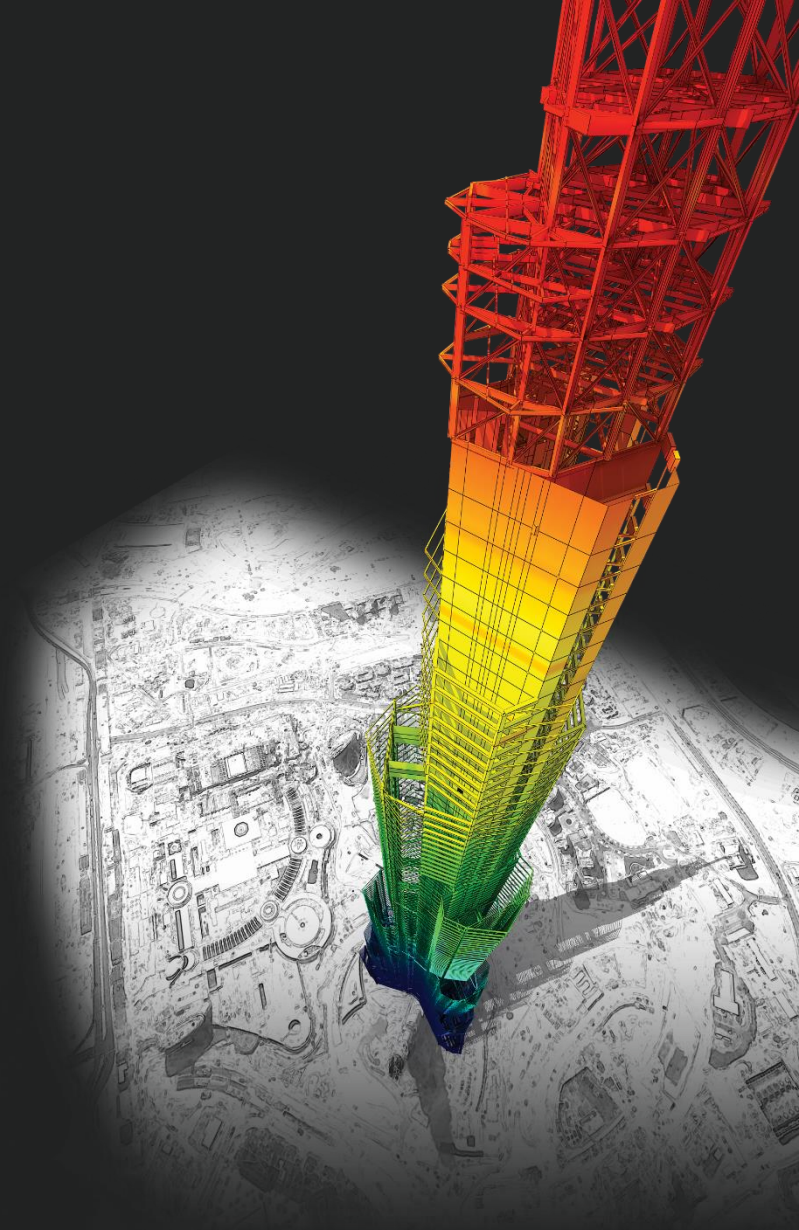
如何模擬 Crane Girder 結構



DESIGN OF General Structures

Integrated Design System for Building and General Structures

問題

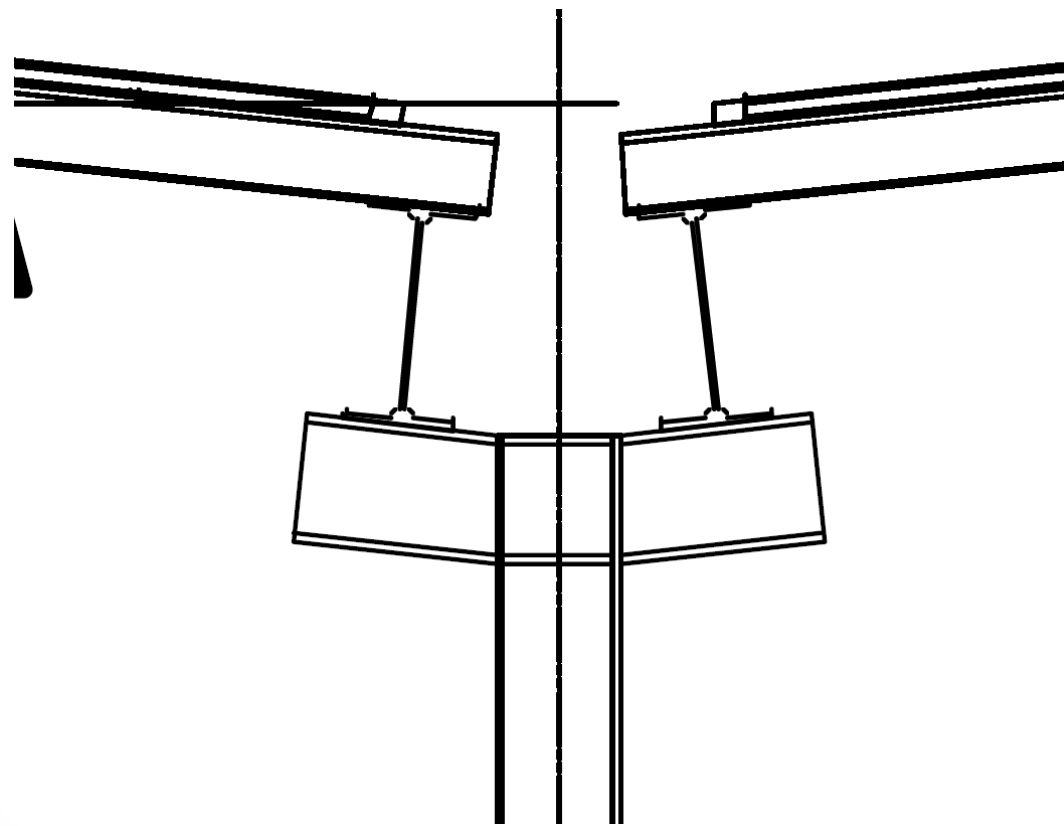


DESIGN OF General Structures

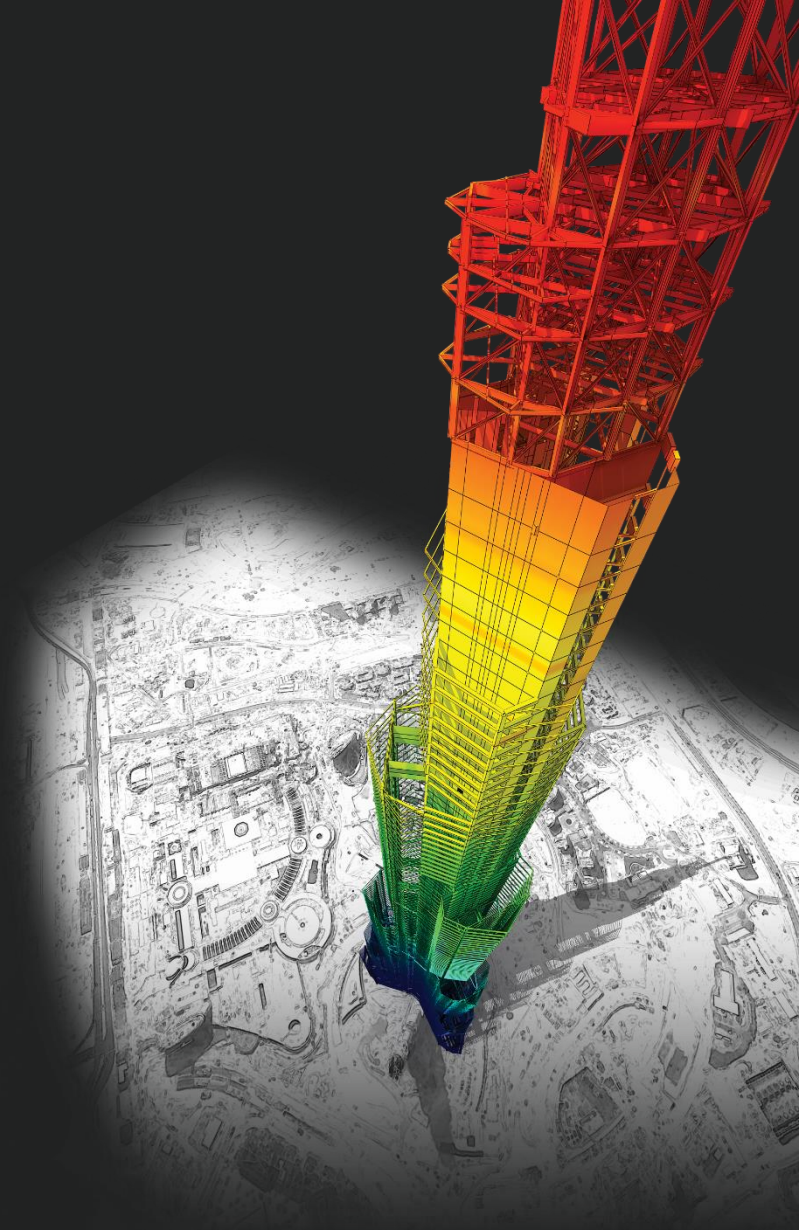
Integrated Design System for Building and General Structures

問題

再請問若是要建如下圖這種接頭(牛腿上疊一支橫梁，橫梁上再疊一支斜梁的方式)，我目前知道的方法只有 **Section Property** 那邊設定 **offset**，但好像只能針對兩支桿件的上下層關係。若有第三支桿件進來就無法形成這樣上下關係，想請教有沒有什麼方法可以處理這個問題



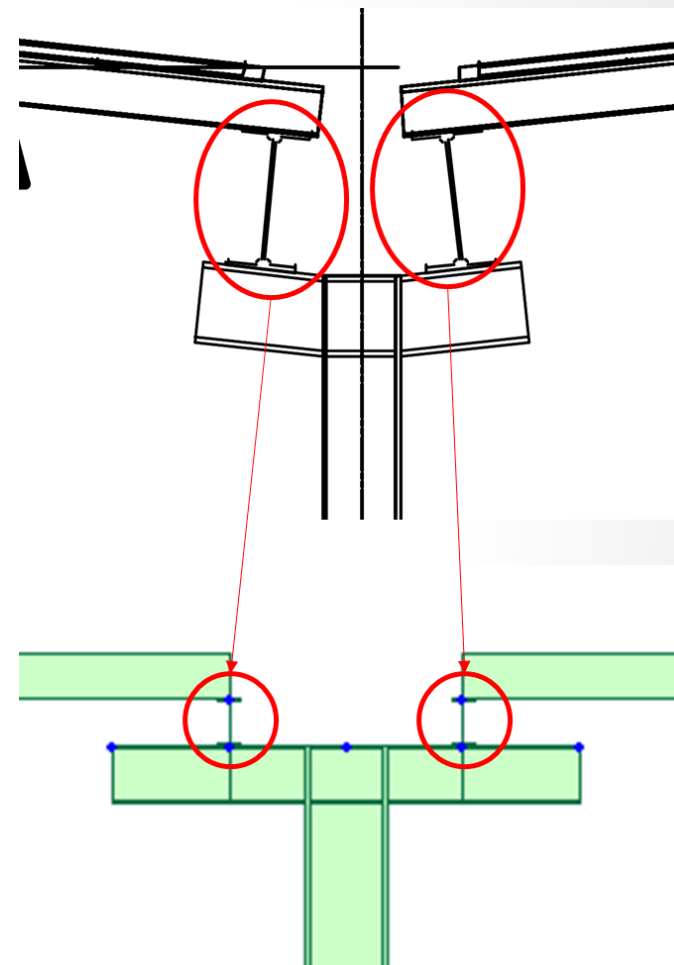
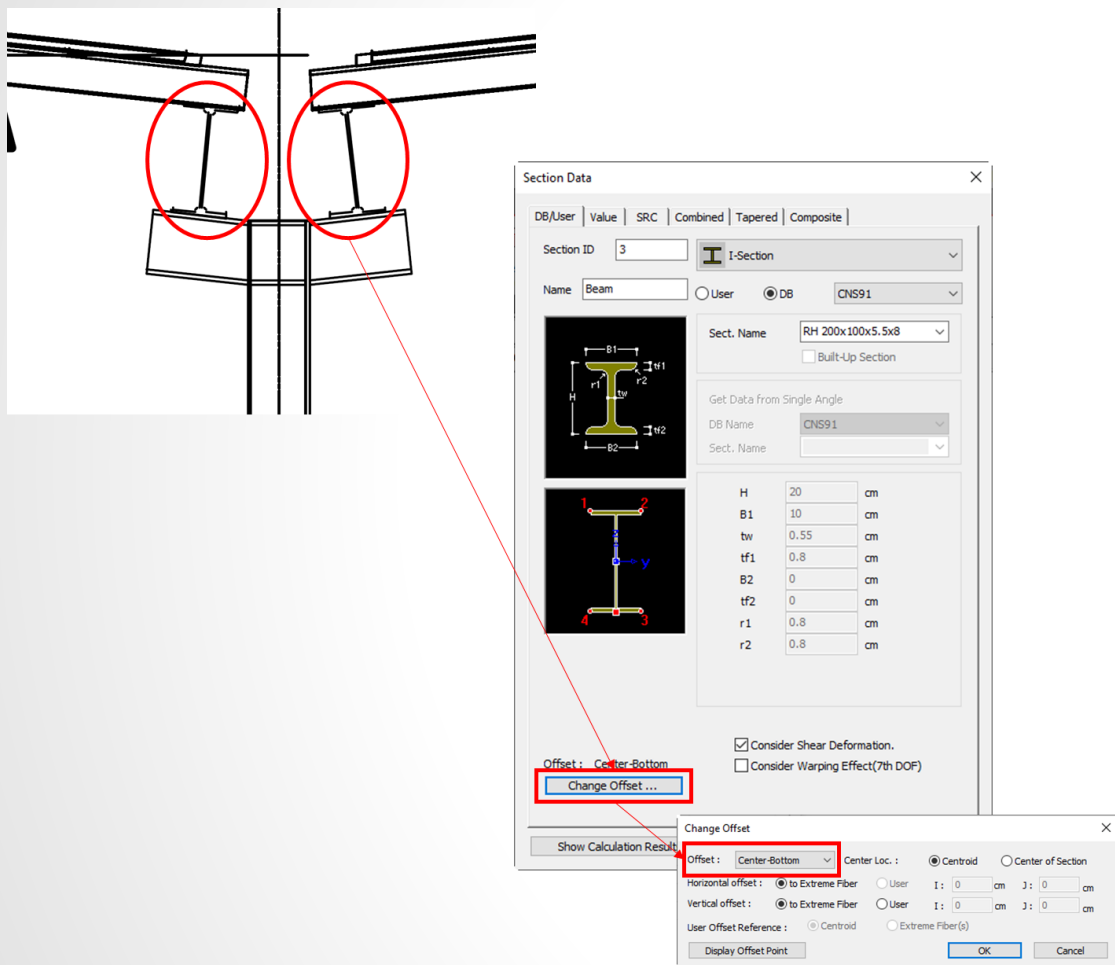
回答



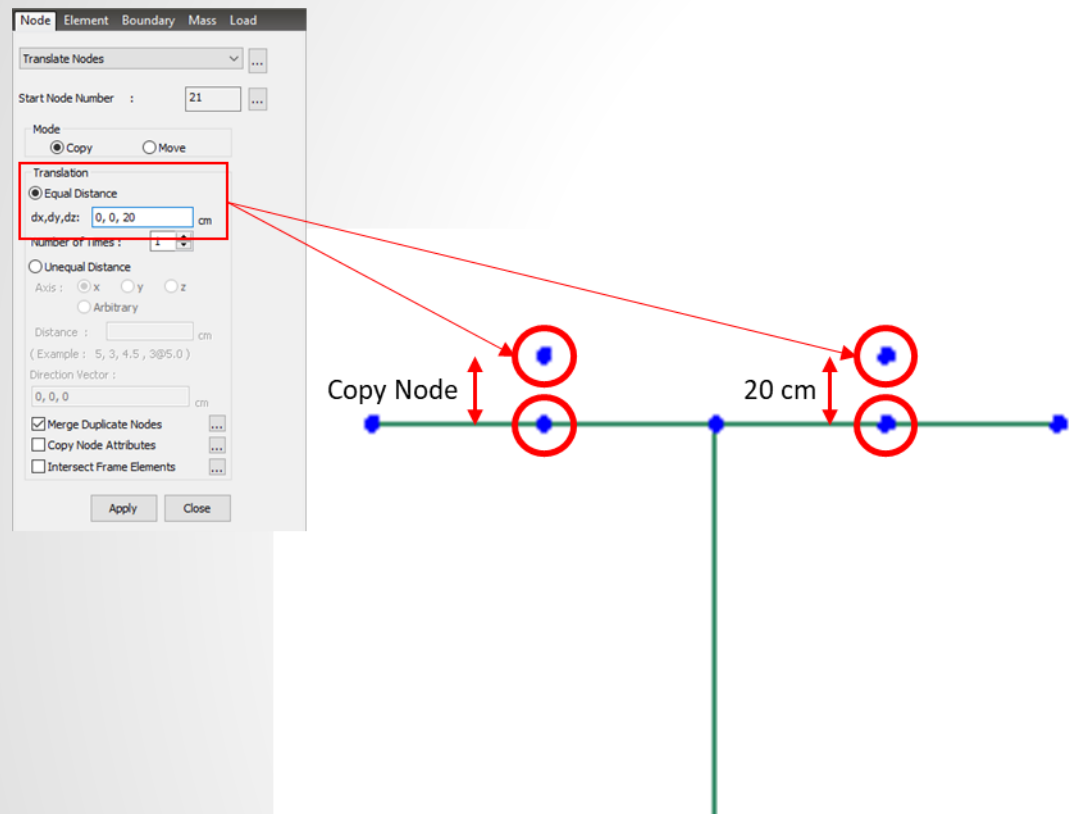
DESIGN OF General Structures

Integrated Design System for Building and General Structures

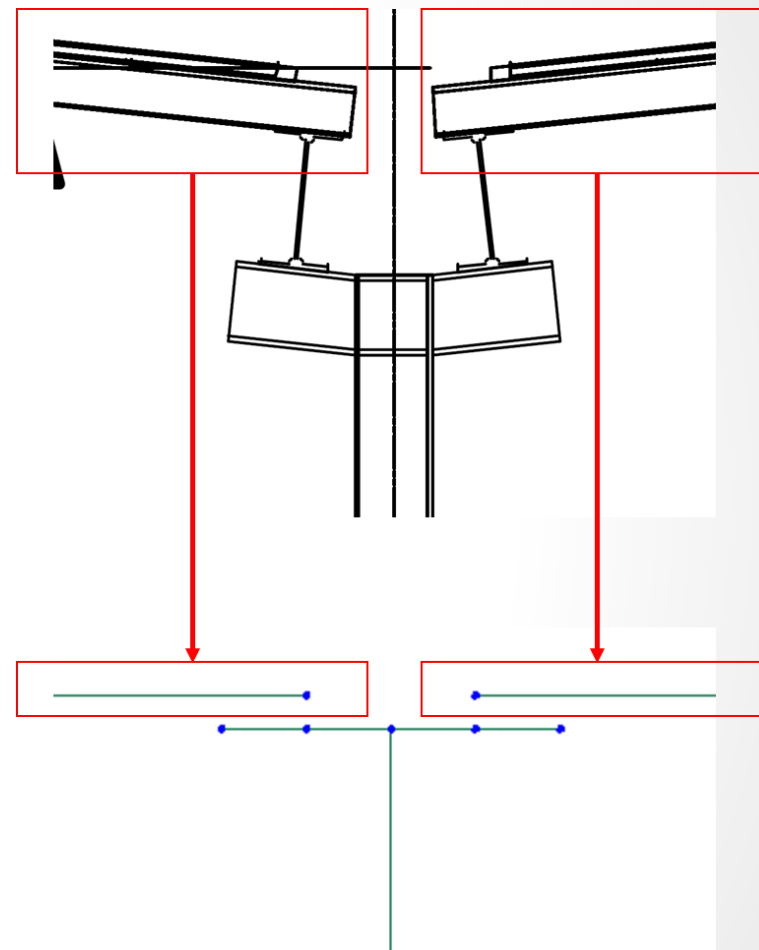
1. 您應該設定 Section Offset 。您可以選 Center-Bottom offset 。



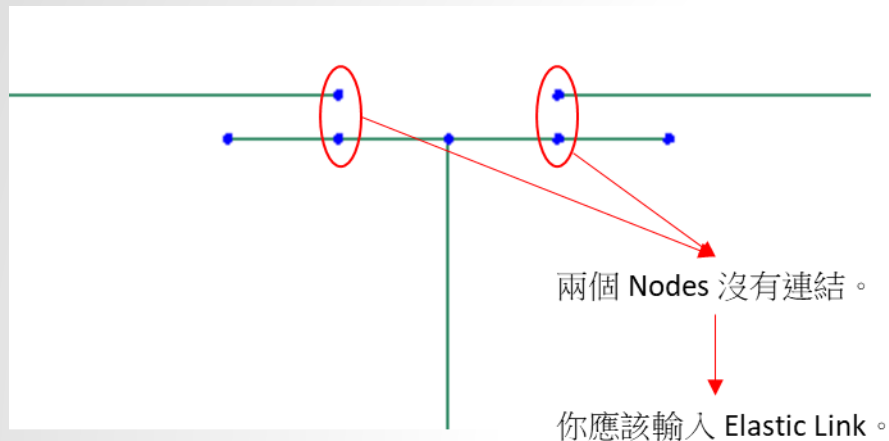
2. 您可以做 Copy Nodes 。



3. Copy Node 以後，在那個 Nodes 您可以建立 Beam Girder 。



4. 因為那個 Beam Girder 沒有連結，您可以輸入 Link (Boundary > Elastic Link > 選 Rigid Type)。



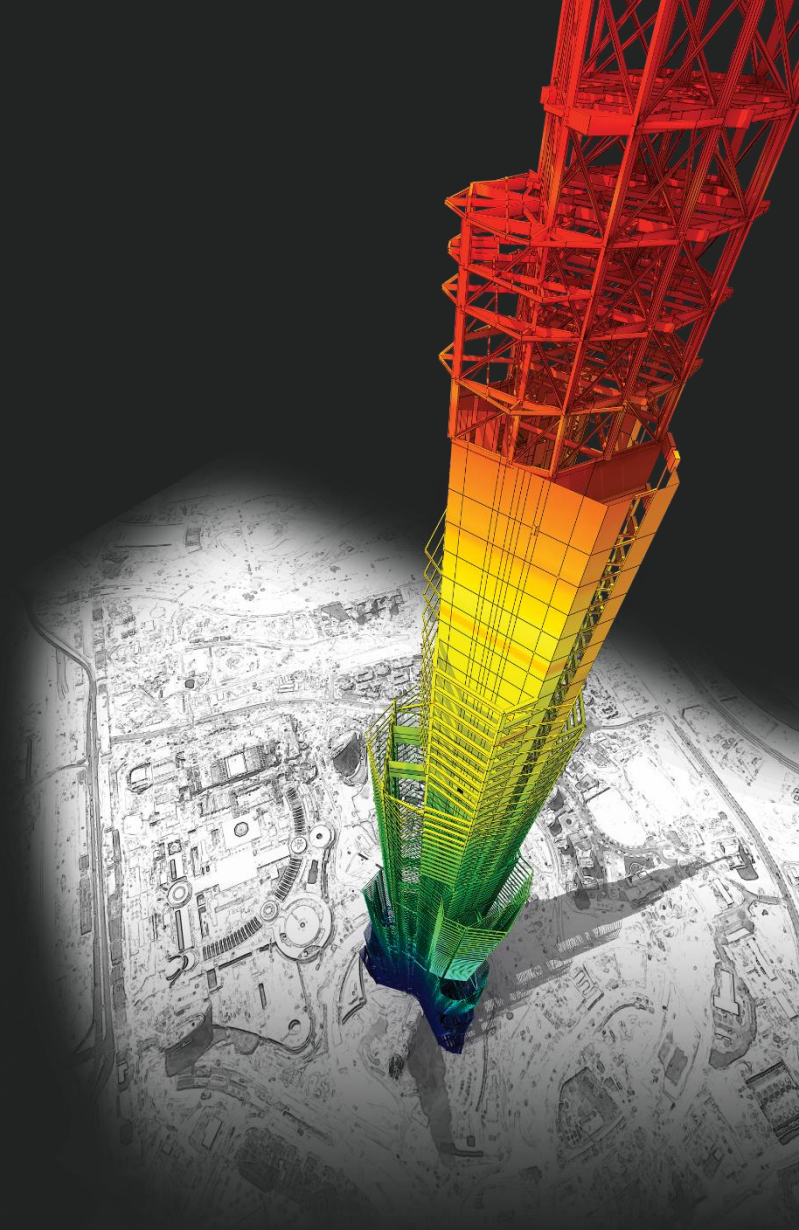
Boundary > Elastic Link > Rigid

Elastic Link Data
Type: Rigid

2 Nodes: []
Distances: [] cm
(Example: 5, 3, 4.5, 3@95.0)

```
-----STARTING SOLUTION-----  
MULTI-FRONTAL SOLVER  
AVAILABLE MEMORY = 22.4 GBYTES  
GPU ACCELERATION : DISABLED (NOT SUITABLE COMPUTE CAPABILITY)  
ENTRY NUMBERING EQN  
ENTRY FORM_STIFF_MASS_LOAD  
THE INDIVIDUAL ELEMENT STIFFNESS AND LOAD MATRICES WILL NOW BE FORMED.  
ELEMENT NO. : 16 OF 16  
ENTRY SOLUTION PHASE  
ENTRY LOAD_BLOCK  
TOTAL NUMBER OF VALID DOFS IN MODEL : 108  
  
ENTRY STATIC ANALYSIS  
MULTI-FRONTAL SOLUTION HAS BEEN COMPLETED.  
DISPLACEMENT/FORCE/STRESS OUTPUT.  
ELEM. : 16 OF 16  
你的結構可以分析。  
  
-----SOLUTION TERMINATED-----  
YOUR MIDAS JOB IS SUCCESSFULLY COMPLETED.....D:\Desktop\20230530\Untitled  
TOTAL SOLUTION TIME..: 0.17 [SEC]
```

Thank You



DESIGN OF General Structures

Integrated Design System for Building and General Structures