

Q

請問在 gen 建模上，RC 板下方有貼附鋼板加勁，這樣的複層材料斷面有辦法模擬且設計嗎？

A

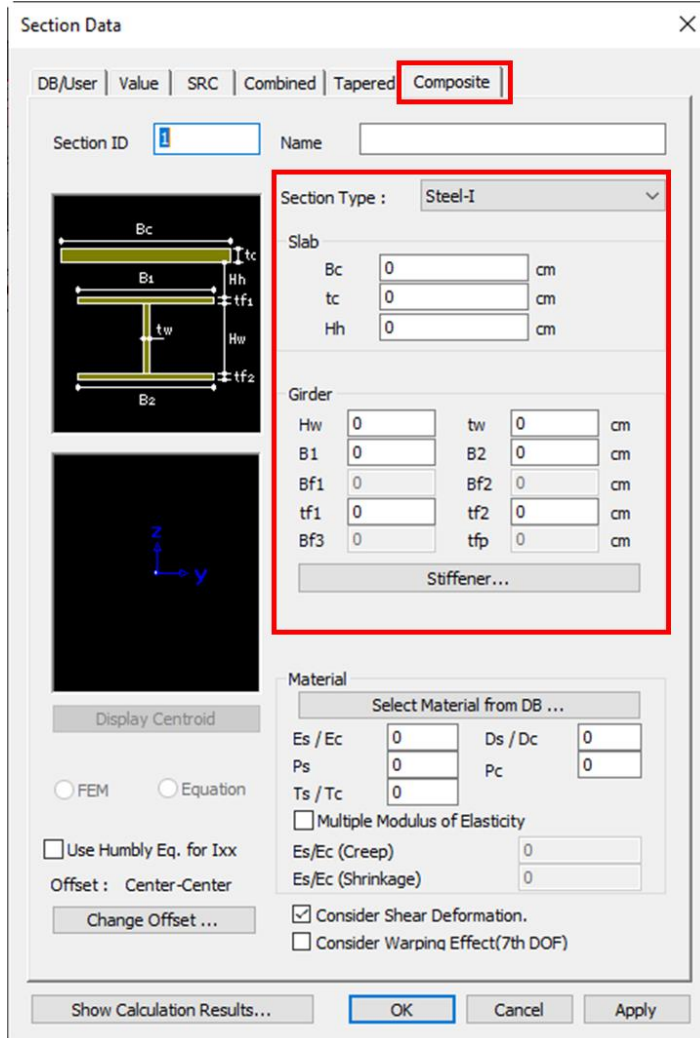
在 midas Gen，你可以做分析 Composite Section 但是你沒辦法做 Composite Design。

1. 首先你可以輸入 Composite Section 斷面。
2. 你也可以設定 Composite Section 的 Stiffness。

在 midas Design+，你可以做 Composite Design。

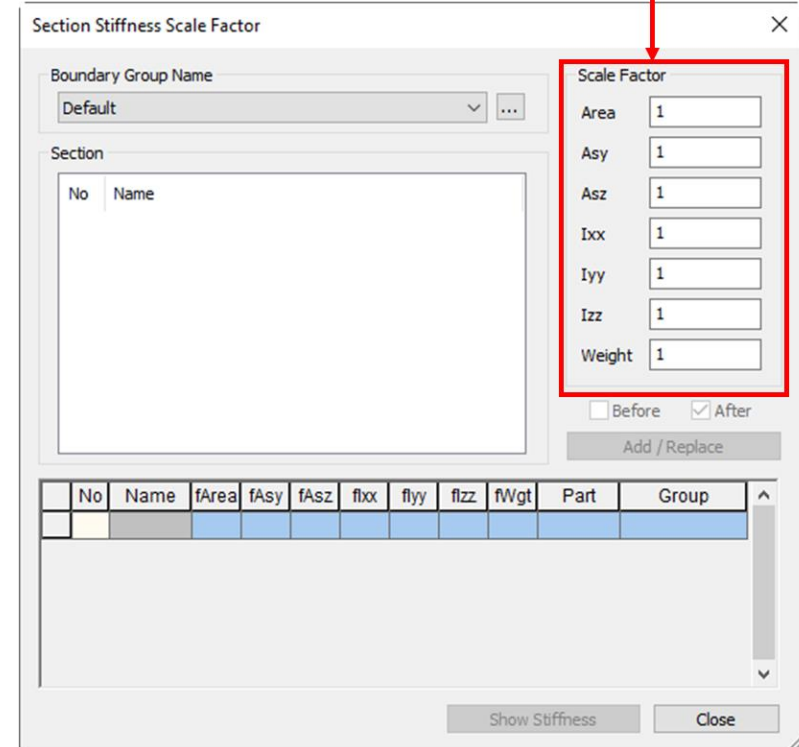
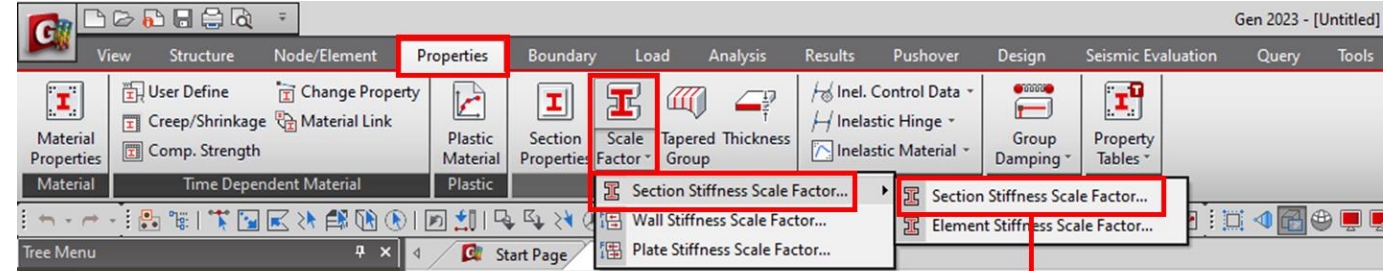
1. 首先你可以輸入 Composite Section 斷面。

Property > Section Property > Composite

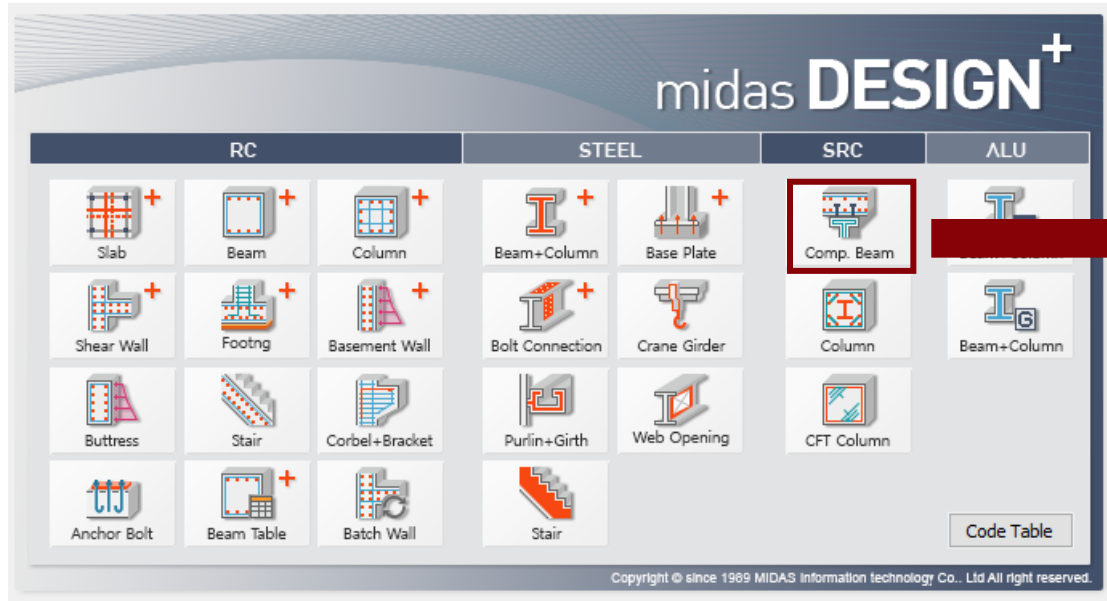


2. 你也可以設定 Composite Section 的 Stiffness。

Property > Scale Factor > Section Stiffness Scale Factor > Section Stiffness Scale Factor



Design+ 可以做 Composite Section Design ◦



Start Page Member Member List Drawing Quantity

General  
Member Name: B01

Section | Deck | Load | Vibration

Material  
H-Beam: SS330  
Shear Connector: SS330  
Concrete: 244.73 kgf/cm<sup>2</sup>

Section  
Shape: H Section  
 Use DB: RH 400x200x8x13

H	40.00	cm
B	20.00	cm
tw	0.80	cm
tf	1.30	cm
r	1.30	cm

Slab  
Thickness: 15.00 cm

Shape  
 T-Shape  Half T-Shape

Span & Support  
 Use Support

Span: 10.00 m  
Spacing: 3.00 m  
Unbraced Length: 1.00 m

Double click to Zoom

Double click to Zoom

Peak Acceleration (% Gravity)

Frequency (Hz)

Calculation Result

Check Item	Result	Remark
Width-Thickness Ratio		
h/tw		
Design Method		
Construction Stage		
$\rho Mn$ ( tonf.m )		
$Mu/\rho Mn$		
$\rho Vn$ ( tonf )		
$Vu/\rho Vn$		
$\delta DL$ ( cm )		
$\delta LL$ ( cm )		
Strength of Stud		
$Qn$ ( tonf/EA )		
$V'$ ( tonf )		
Service Stage		
$\rho Mn$ ( tonf.m )		
$Mu/\rho Mn$		
$\rho Vn$ ( tonf )		
$Vu/\rho Vn$		
$\delta DL$ ( cm )		
$\delta LL$ ( cm )		
$\delta ALL$ ( cm )		
Vibration		
Frequency (Hz)		
Acceleration (%)		

Design(F4) Check(F5) Report ... Apply(F3)