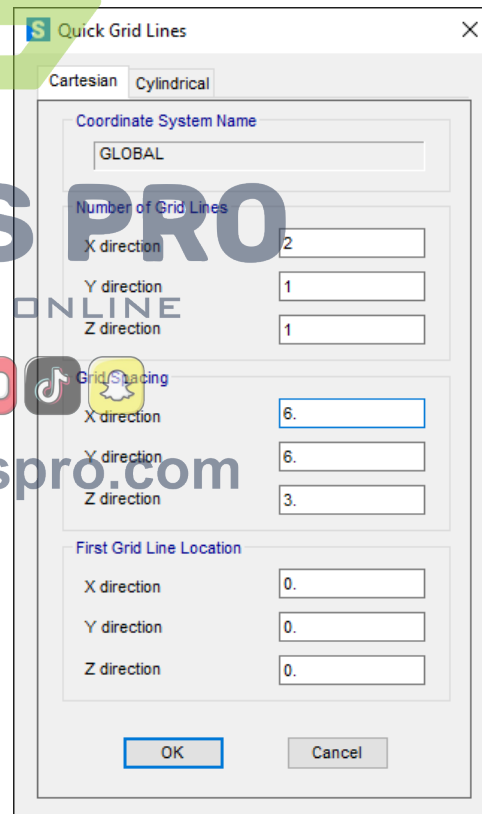
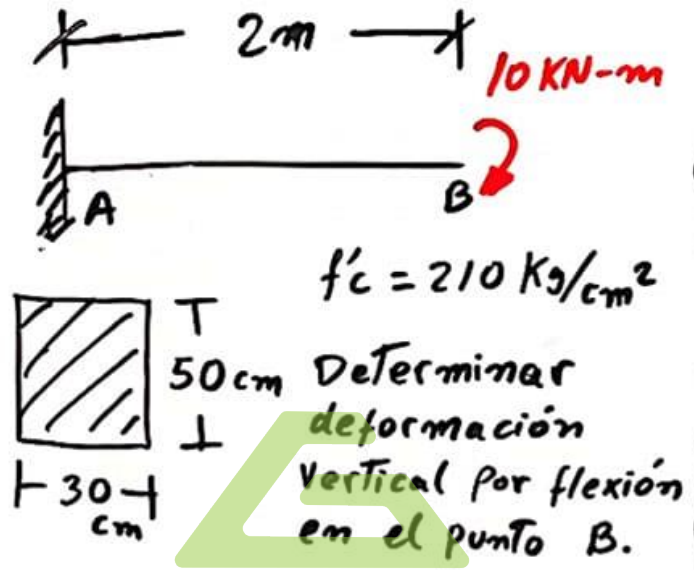
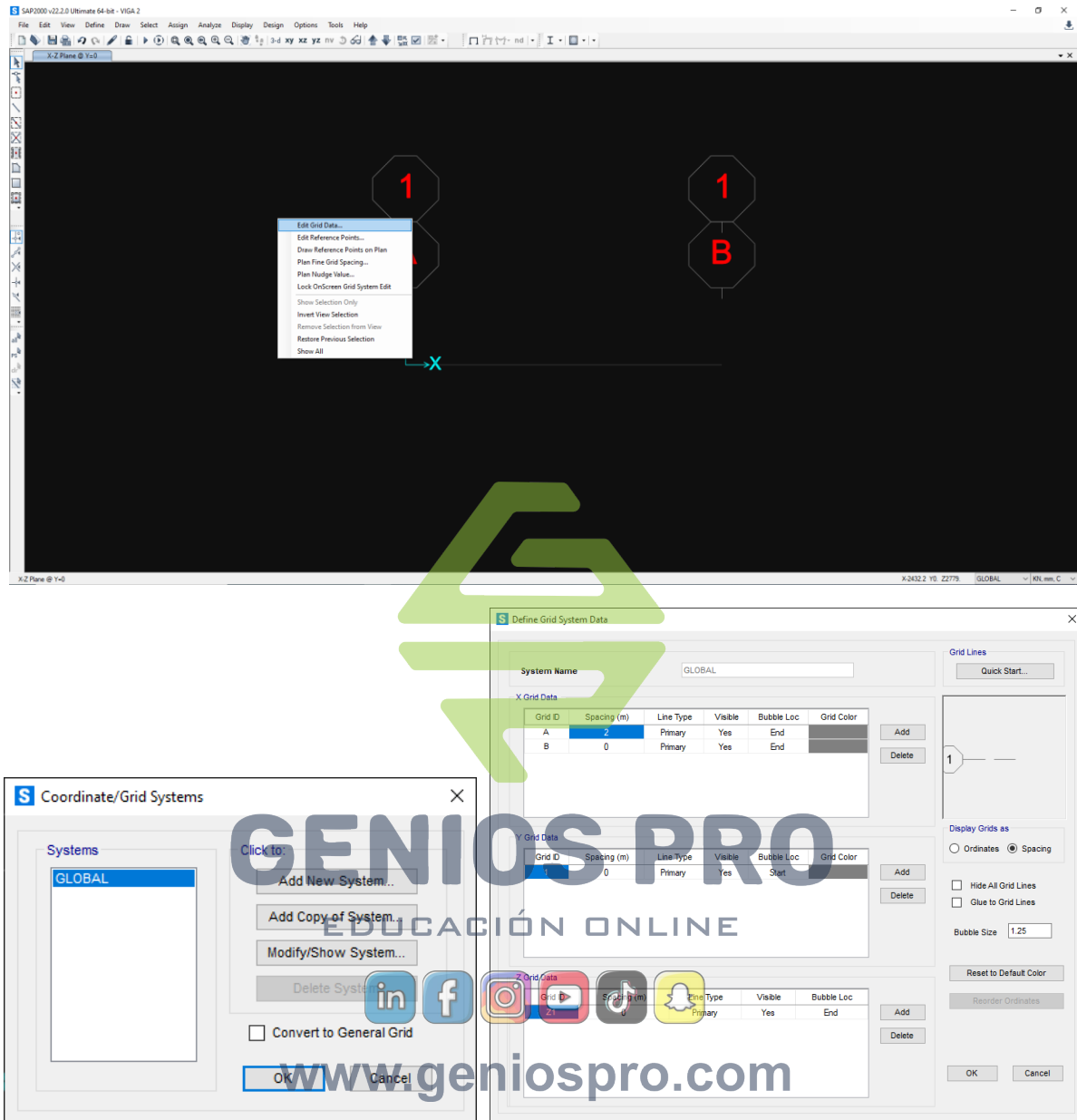
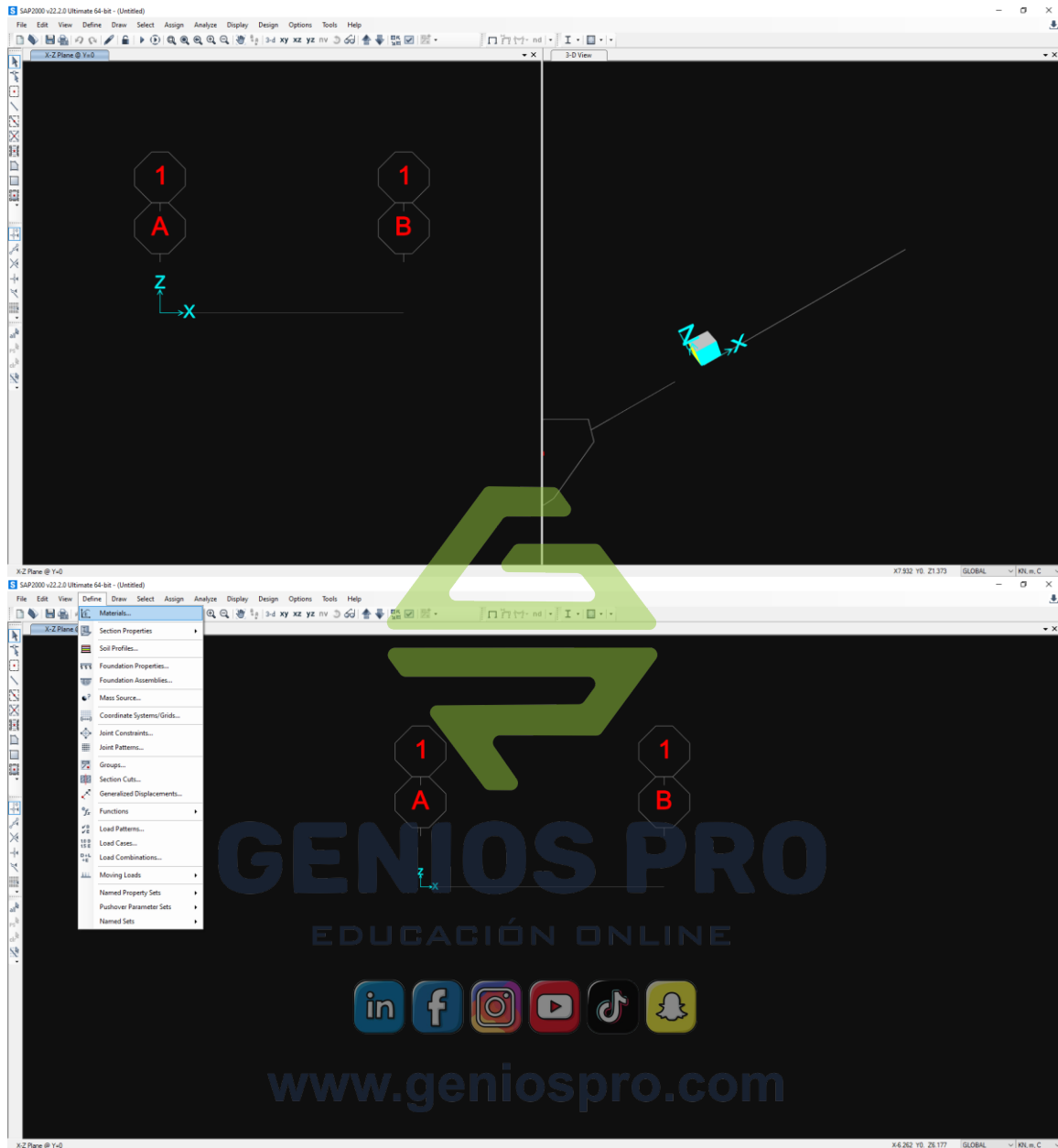


EJERCICIO 2: Determinar deformaciones verticales por flexión en el punto B.







S Define Materials

Materials

4000Psi
A992Fy50

Click to:

Add New Material...

Add Copy of Material...

Modify/Show Material...

Delete Material

☐ Show Advanced Properties

OK

Cancel

S Add Material Property

Region: United States

Material Type: Concrete

Standard: Concrete

Grade: Aluminum

Rebar

Tendon

Other

OK

Cancel

S Define Materials

Materials

4000Psi
4000Psi-1
A992Fy50

Click to:

Add New Material...

Add Copy of Material...

Modify/Show Material...

Delete Material

☐ Show Advanced Properties

OK

Cancel

S Material Property Data

General Data

Material Name and Display Color: FC=210 KG/CM2

Material Type: Concrete

Material Grade: FC=210 KG/CM2

Material Notes: Modify/Show Notes...

Weight and Mass

Weight per Unit Volume: 0.

Mass per Unit Volume: 0.

Units: KN, m, C

Isotropic Property Data

Modulus Of Elasticity, E: 21740000.

Poisson, U: 0.2

Coefficient Of Thermal Expansion, A: 9.900E-06

Shear Modulus, G: 9058333.

Other Properties For Concrete Materials

Specified Concrete Compressive Strength, f_c: 20593.965

Expected Concrete Compressive Strength: 20593.965

☐ Lightweight Concrete

Shear Length Reduction Factor:

☐ Switch To Advanced Property Display

OK

Cancel

Material Property Data

General Data

Material Name and Display Color: FC=210 KG/CM2

Material Type: Concrete

Material Grade: FC=210 KG/CM2

Material Notes: [Modify/Show Notes...](#)

Weight and Mass

Weight per Unit Volume: 0.

Mass per Unit Volume: 0.

Isotropic Property Data

Modulus Of Elasticity, E: 221686.3

Poisson, U: 0.2

Coefficient Of Thermal Expansion, A: 9.900E-06

Shear Modulus, G: 92369.29

Other Properties For Concrete Materials

Specified Concrete Compressive Strength, f_c: 210.

Expected Concrete Compressive Strength: 210.

☐ Lightweight Concrete

Shear Strength Reduction Factor:

☐ Switch To Advanced Property Display

[OK](#) [Cancel](#)

Material Property Data

General Data

Material Name and Display Color: FC=210 KG/CM2

Material Type: Concrete

Material Grade: FC=210 KG/CM2

Material Notes: [Modify/Show Notes...](#)

Weight and Mass

Weight per Unit Volume: 0.

Mass per Unit Volume: 0.

Isotropic Property Data

Modulus Of Elasticity, E: 221686.3

Poisson, U: 0.2

Coefficient Of Thermal Expansion, A: 9.900E-06

Shear Modulus, G: 92369.29

Other Properties For Concrete Materials

Specified Concrete Compressive Strength, f_c: 210.

Expected Concrete Compressive Strength: 210.

☐ Lightweight Concrete

Shear Strength Reduction Factor:

☐ Switch To Advanced Property Display

[OK](#) [Cancel](#)

Define Materials

Materials

4000Psi

FC=210 KG/CM2

A992Fy50

Click to:

[Add New Material...](#)

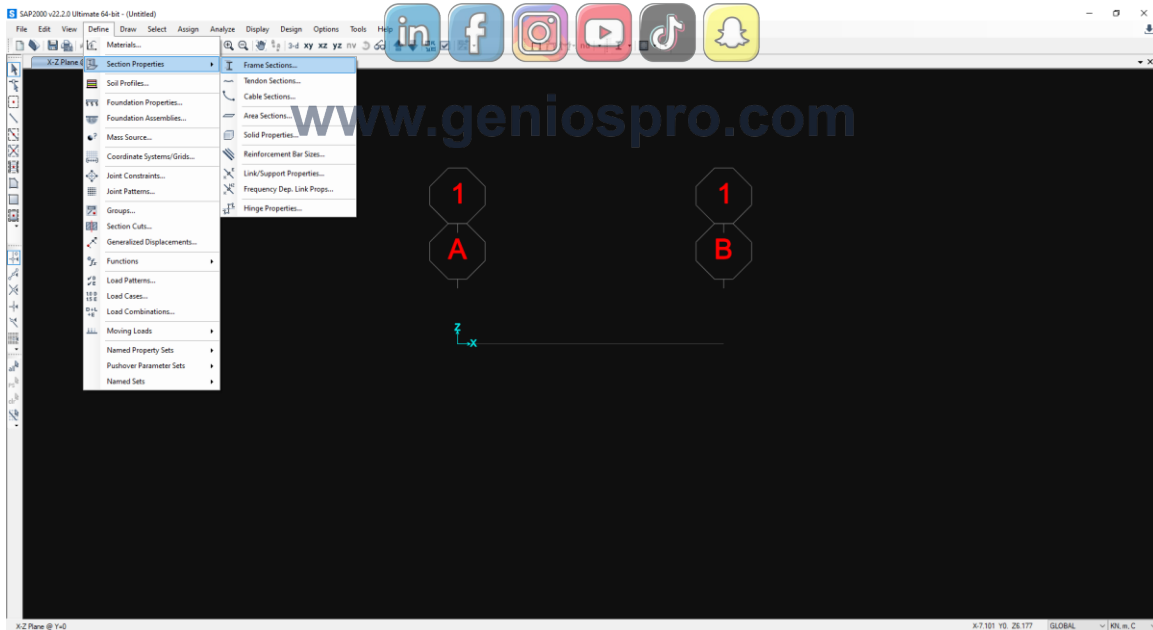
[Add Copy of Material...](#)

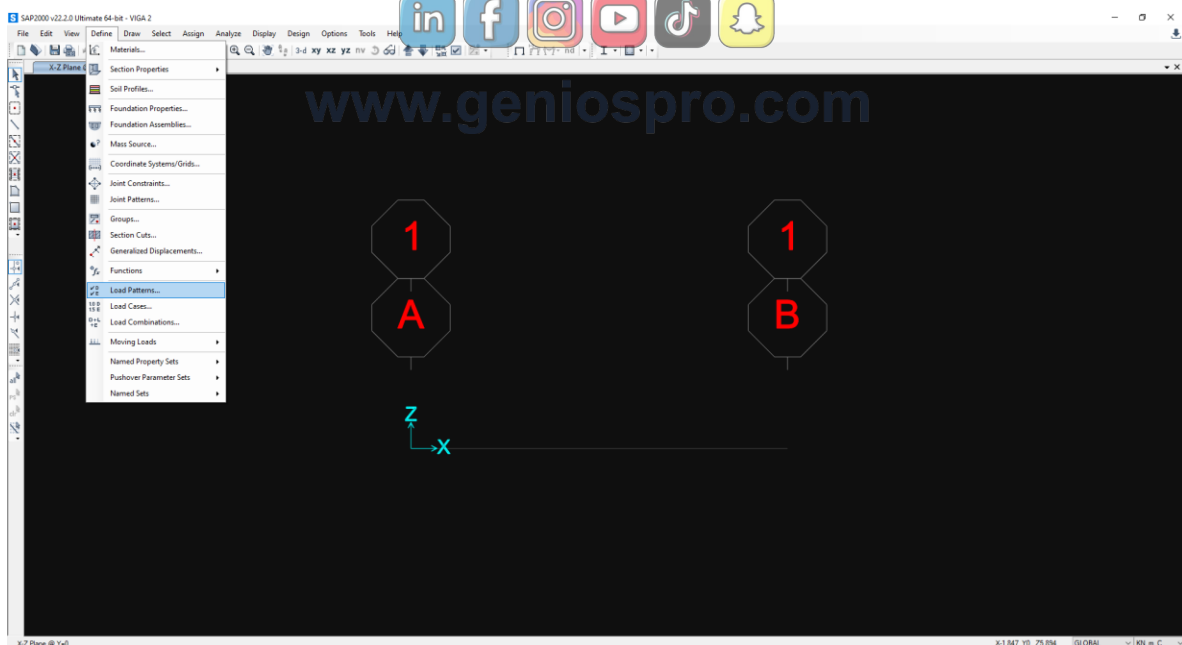
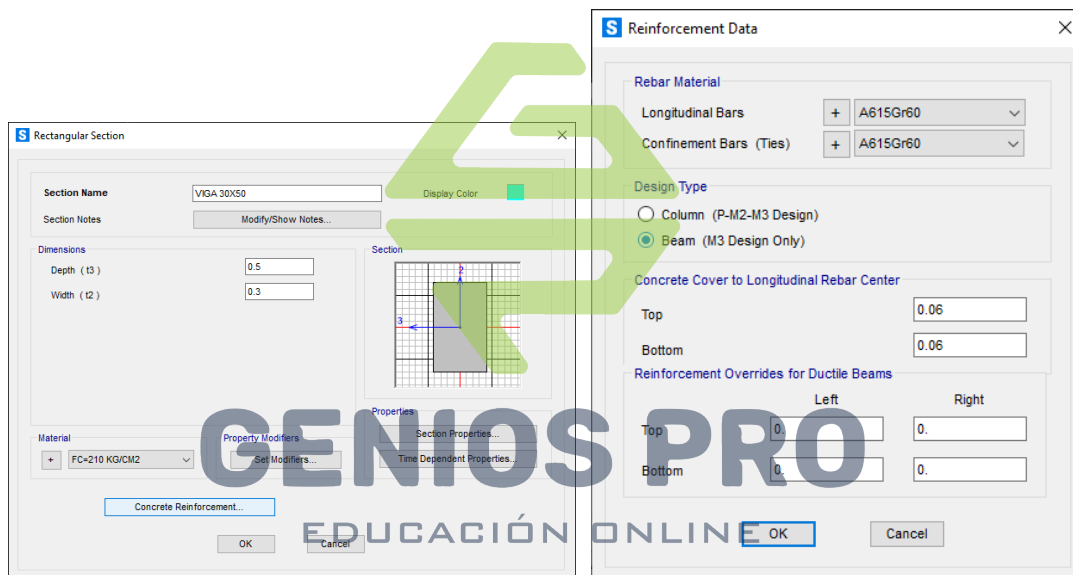
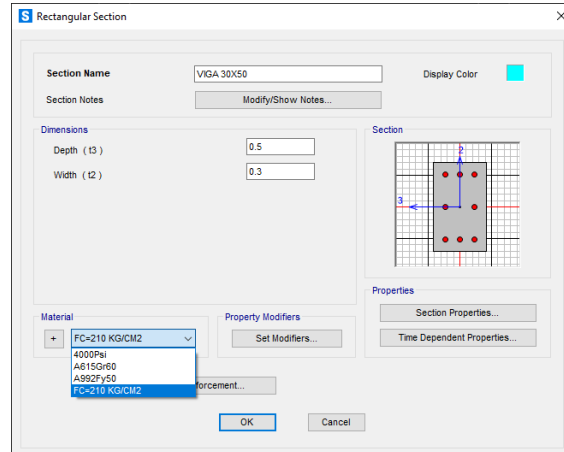
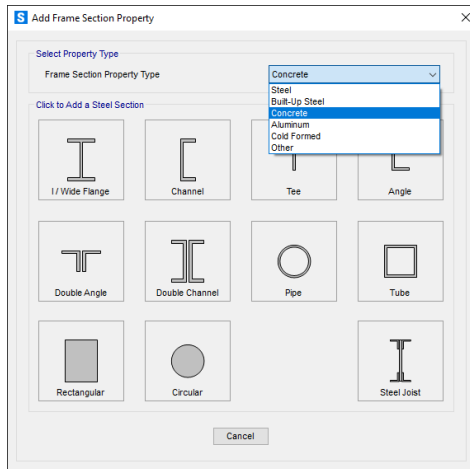
[Modify/Show Material...](#)

[Delete Material...](#)

☐ Show Advanced Properties

[OK](#) [Cancel](#)





S Define Load Patterns

Load Patterns

Load Pattern Name	Type	Self Weight Multiplier	Auto Lateral Load Pattern
CARGAS	Dead	1	
DEAD	Dead	1	
	Live		
	Roof Live		
	Quake		
	Wind		
	Snow		
	SeaState		
	Other		
	More...		

Click To:

Add New Load Pattern

Add Copy of Load Pattern

Modify Load Pattern

Modify Lateral Load Pattern...

Delete Load Pattern

Show Load Pattern Notes...

OK Cancel

S Define Load Patterns

Load Patterns

Load Pattern Name	Type	Self Weight Multiplier	Auto Lateral Load Pattern
CARGAS	Other	0	
CARGAS	Other	0	

Click To:

Add New Load Pattern

Add Copy of Load Pattern

Modify Load Pattern

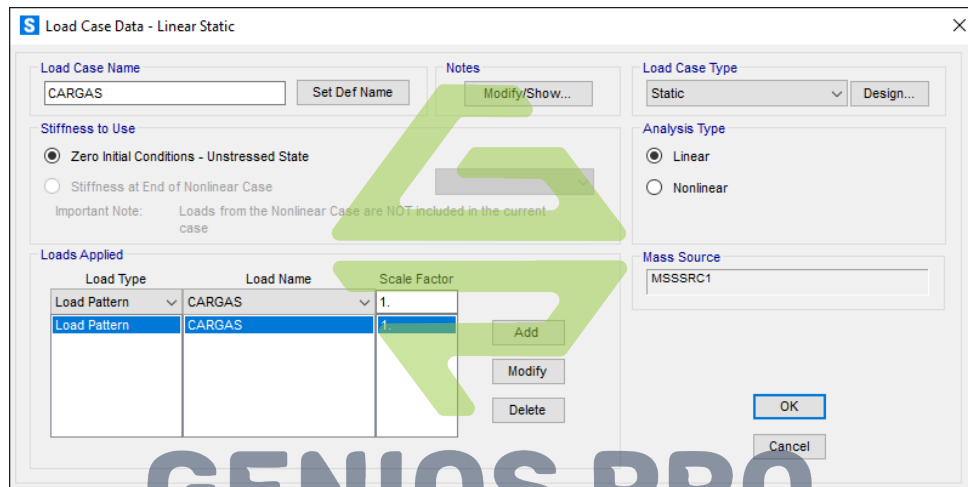
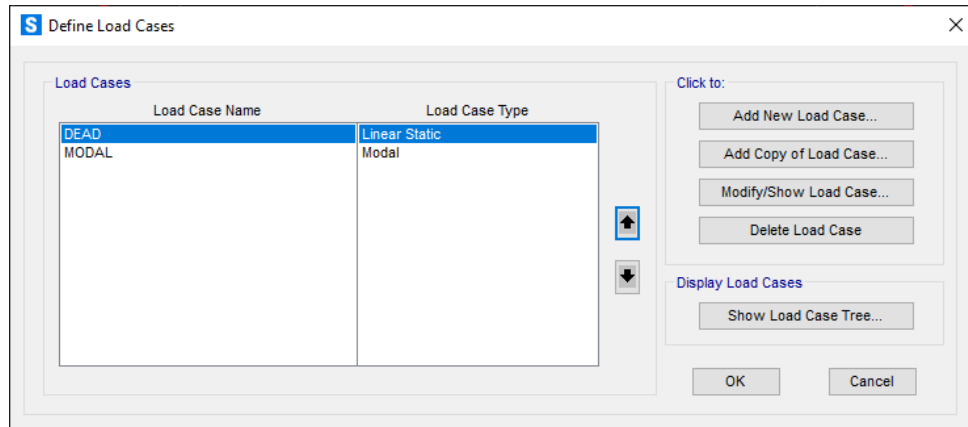
Modify Lateral Load Pattern...

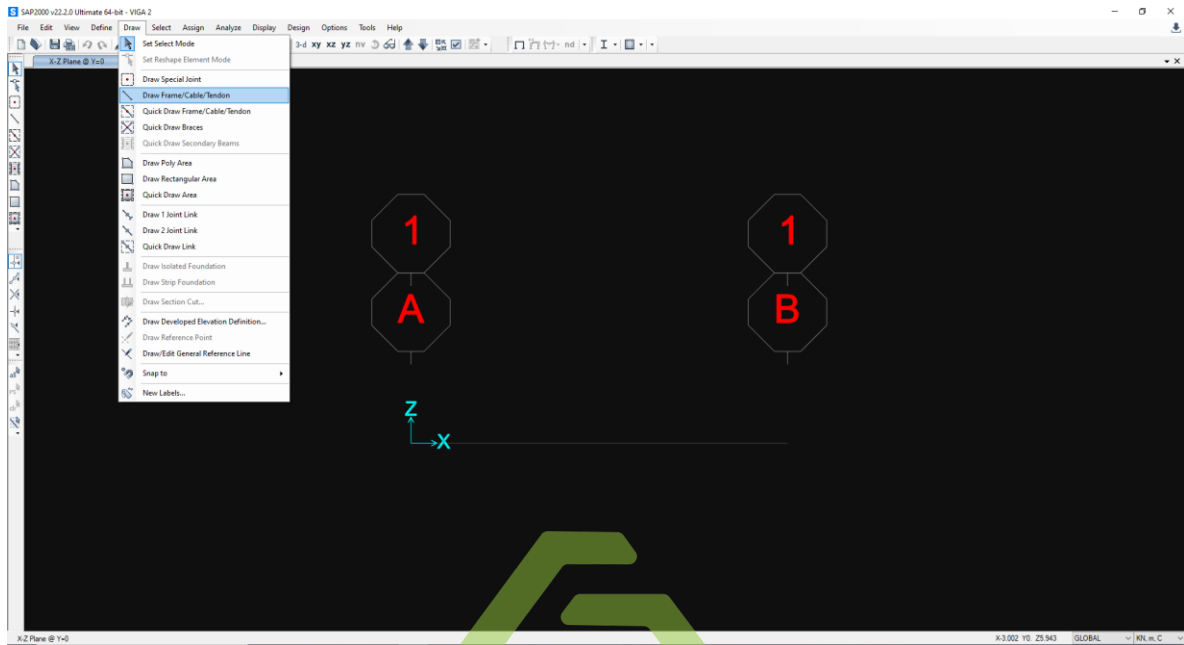
Delete Load Pattern

Show Load Pattern Notes...

OK Cancel

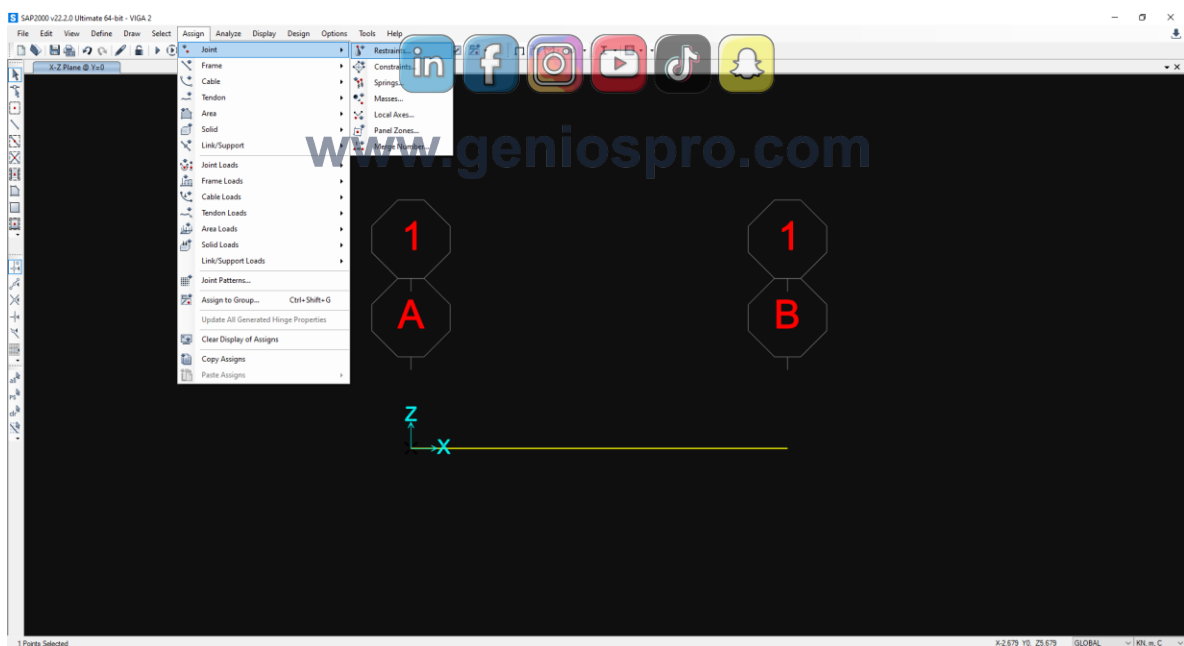


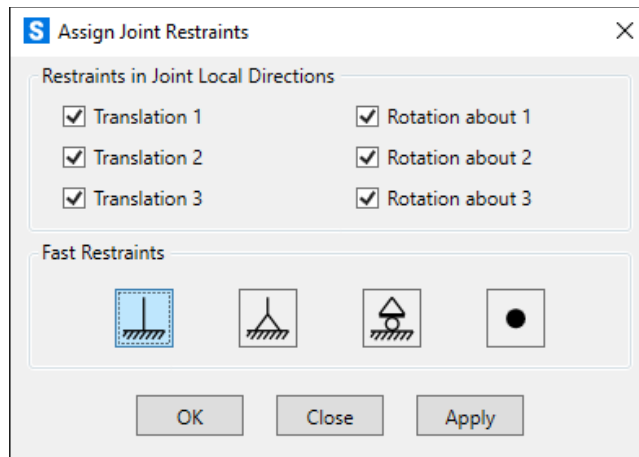




Properties of Object

Line Object Type	Straight Frame
Section	VIGA 30X50
Moment Releases	Continuous
Local Axis Rotation	0.
XY Plane Offset Normal	0.
Drawing Control Type	None <space bar>





S Assign Joint Forces [X]

General

Load Pattern: CARGAS

Coordinate System: GLOBAL

Forces

Force Global X: 0 kN

Force Global Y: 0 kN

Force Global Z: 0 kN

Moment about Global X: 0 kN-m

Moment about Global Y: 10 kN-m

Moment about Global Z: 0 kN-m

Options

☐ Add to Existing Loads

☒ Replace Existing Loads

☐ Delete Existing Loads

Reset Form to Default Values

OK Close Apply

