



Guía para usar RISA 2D



Programa

Necesitan crearse una cuenta para descargar el programa:

https://risa.com/products/risa-2d



2 File

RISA-2D Demonstration

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Edit Settings Units

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Cambiar unidades al sistema métrico (kN, m, MPa)

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Demonstration V	Version				
Units Selectio	'n				
Lengths	_ 	Dimensions	++I	- Material Stiffness -	
meters		millimeters 💌	J] E	MPa _	
Forces		Linear Forces		Moments	
kN	• *	kN/m 💌		kN-m _	
Translational 9	Springs	Rotational Springs		Temperatures	
kN/mm		kN-m/rad 💌	Ð	Celsius	-
Deflections		Stresses		- Weight Densities -	
millimeters	- 5	MPa 💌		kg/m^3	-
Convert E					
Save the:	se units settings as	the default settings?			



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Demonstration Version

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Definirse la grilla, que corresponde al espacio donde van a trabajar.

on	Drawing Grids Drawing Grid Snap To Opt	ions Import DXF
	Drawing Grid Origin (m) X 0 Y 0 Click on a location to reloca	all Design Ru int Coordinat Jord Pefinition Drift Pefinition Prilates Wall Panels Wall Panels
	Rectangular Grid Increments XAxis (m) 30@0.5	Y Axis (m) 30@0.5 Y Axis m Joint Loads Point Point Loads Point Point Loads Point Point Loads Point Point Loads Point
Número de cuadraditos	Skew Angle 0	Espaciamiento, en la unidad
	Start Angle 0 Angle Increments 8@22.5 Radial Increments 10,10@0	deg deg 0.61m
	Save and Recall Grid Settings.	
	Show Grid As	Save Current Settings as Defaults? Ok Cancel Help

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13	2.5 (m)	(Ctrl-X to	togale)



version

	Label	E IMPal	G [MPa]	Nu	Therm	Densit	VieldIM		
1	HR1	1.999e+5	76904.123	1.17	7849.047	248.21			
2	A992	1.999e+5	76904.123	1.17	7849.052	344.73			
3	A36 Gr.36	1.999e+5	76904.123	1.17	7849.052 248.				
4	A572 Gr.50	1.999e+5	76904.123	0.3	1.17	7849.052	344.738		
5	A500 Gr.B RND	1.999e+5	76904.123	0.3	1.17	8441.734	289.58		
6	A500 Gr.B RECT	1.999e+5	76904.123	0.3	1.17	8441.734	317.159		
7	A500 Gr.C RND	1.999e+5	76904.123	0.3	1.17	8441.734	317.159 344.730 241.317 344.730		
8	A500 Gr.C RECT	1.999e+5	76904.123	0.3	1.17	8441.734			
9	A53 Gr.B	1.999e+5	76904.123	0.3	1.17	7849.052			
10	A1085	1.999e+5	76904.123	0.3	1.17	7849.052			
11	A913 Gr.65	1.999e+5	76904.123	0.3	1.17	7849.052	448.15		



 En la ventana de materiales pueden agregar y modificar los existentes para después incluirlo en las secciones. 1) Al dibujar, con click izquierdo van marcando los puntos que separe a las secciones

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RISA-2D Demonstration - [C:\RISA User Data\David Baeza S\Model Files\untitled.r2d] - [Model View]
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2) Al pararse en cualquier zona de la grilla, les indicará la posición x,y

Demonstration Version

 Pueden "soltar" el dibujo apretando el click derecho.

Data Entry Materials Section Sets Wall Design Rules Joint Coordinates Boundary Conditions Oritt Definitions Members Plates Wall Panels Basic Load Cases Joint Loads Point Loads Distributed Loads Mevinu Loads

Load Combinations

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Al dibujar bielas, fijarse que aparezcan estos círculos en todos los extremos







2 Demonstration - [C:/VISA Osel Data/David Baeza 3/Model Lifes/Initiated120]																									
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	🕗 Load	Combinations																						•	• ×
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		Description	Sol	PD	SR	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
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Antes de correr, deben indicar los factores de amplificación de cargas. Para efectos del curso estos son 1, así que deben tener lo mismo que aparece aquí.



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