

- The single interactive window is the hub of the program and will be familiar to users of our mobile Apps.
- Very few controls means that the program is easy to understand and quick to use:
- Simple mouse gestures to pan and rotate, and structures can be created entirely with the mouse.
- Multiple windows can be opened of the same model:
 - View or work on two close-up areas simultaneously.
 - Work in one window while showing another on a second monitor or projector.
 - View results while editing geometry and/or loading.



- Nodes and members are selected by simply pointing and clicking.
- Selected nodes can be moved by dragging with the mouse or double-clicking on their coordinates.
- Selected members can have their lengths changed by dragging their ends with the mouse or by double-clicking on the printed length.

Unspecified		wame Treads
Treads	*	Analyse 🗙
Outer stringers		Opacity
Add geometry group		

- Geometry can be placed into groups.
- Each group can be colour-coded, including being translucent.
- Groups can be removed from the analysis:
 - "What if?" analysis.
 - Depiction of surrounding structure for context or location.





- Members can be drawn to scale with their actual cross-sectional shape.
- Rendered views depict group colours.
- Individual groups can be picked out, with other groups shown ghosted.
- Viewpoints can be stored and recalled for quick visual positioning.



- The loading tab is for viewing and editing applied loads.
- The displayed scale of the loads can be adjusted with the slider in the top right-hand corner.
- Loads are selected by simply pointing and clicking.
- Selected loads can have their magnitudes and positions changed by simply dragging the arrows with the mouse.
- To enter values numerically, double-click on a number and a calculator will appear for a new value.
- To invert a load, simply negate its value or drag it to the other side of the member.



- Loads are assigned to load-cases.
- Multiple load-cases can be created and named.
- Gravity loading is automatically determined.
- Combinations allow summation of factored load-cases.



- All numerical input to the program is via a calculator like this.
- It can be operated with the mouse or keyboard.



- Results are automatically calculated in the background as the model is edited.
- Nodes and members can be interrogated by clicking on them.
- Global displacements and member stresses are displayed at the top of the window.
- For member deflections, bending moments, and shear forces, a slider reads out the values at any point.
- Black dots can be clicked on for automatically determined *points of interest* such as maxima and discontinuities.

Warning: this actie	n will result in an empty	model
Unit System	UK EU	us
Help	Materials	
Reports		6
Save	Load	— i

- The utilities window complements that of our mobile Apps.
- The preferred unit system can be chosen.

			120 x 00 x 0.0				Y	Dim	ension	s in mm
British	I	UB	120 x 80 x 10.0				000 0			
European	I	UC	150 x 100 x 5.0			r	200.0	-1		
American		SHS	150 x 100 x 6.3	-11		Г			1=	
Australian		RHS	150 x 100 x 8.0		×	(JI			0.0	
South African	0	CHS	150 x 100 x 10.0			۹L	+		-	2
Russian	C	RSC	150 x 100 x 12.5				5.0			H L
Japanese	C	PFC	160 x 80 x 5.0				Ý			-
Custom	L	ERSA	160 x 80 x 6.3		Stee	1		22.7	kg/m	Mass
Manual at a set	L	URSA	160 x 80 x 8.0			Area		28.9	cm ²	
Material only	I	RSJ	160 x 80 x 10.0	- [11]		bxx		509	cm ⁴	Use
	I	UBP	160 x 80 x 12.5		Rot	lyy		1510	cm ⁴	
			200 x 100 x 5.0			J		1200	cm ⁴	
			200 x 100 x 6.3			Zxx		102	cm ³	
			200 x 100 x 8.0			Zyy		151	cm ³	

- The section library will be familiar users of our mobile Apps.
- A wide range of sections is presented.
- A custom section generator of common shapes is provided.

British	I	Three plates			200	.0	Iensions	
European	C	Channel		70.0				
American	L	Angle		-		725.		
Australian		Rectangular hollow	х ——	2	-	20.0		
South African	•	Rectangular solid			°L _	25.0		
Russian	0	Oval hollow			.0	ų *		
Japanese	0	Oval solid			100	Y		-
Custom	T	Tee	Stee	1		98.1	kg/m	Mas
Custom	1	Zed		Area		125	cm ²	
Material only	T	Asymmetrical bi-plate		Ixx		15878	cm ⁴	Use
	3	Asymmetrical tri-plate	Rot	lyy		2121.7	cm ⁴	
				J		222.92	cm ⁴	
				Zxx		894.51	cm ³	
				Zyy		186.11	cm ³	

- A custom section generator of common shapes is provided.
- Simply pick the shape and double-click on the dimensions to edit.
- The section can be rotated through 90° by clicking on "Rot".
- Choose a material from the library by clicking on the material button.
- When done, click on "Use" to apply to the selected members.



- Graphical reports can be printed or saved as PDF.
- Emphasis on visual location and interpretation.
- Multiple report formats can be created.