KingBeam (1/2)

Completion v1.0 04/2006

Language Visual Basic

Description

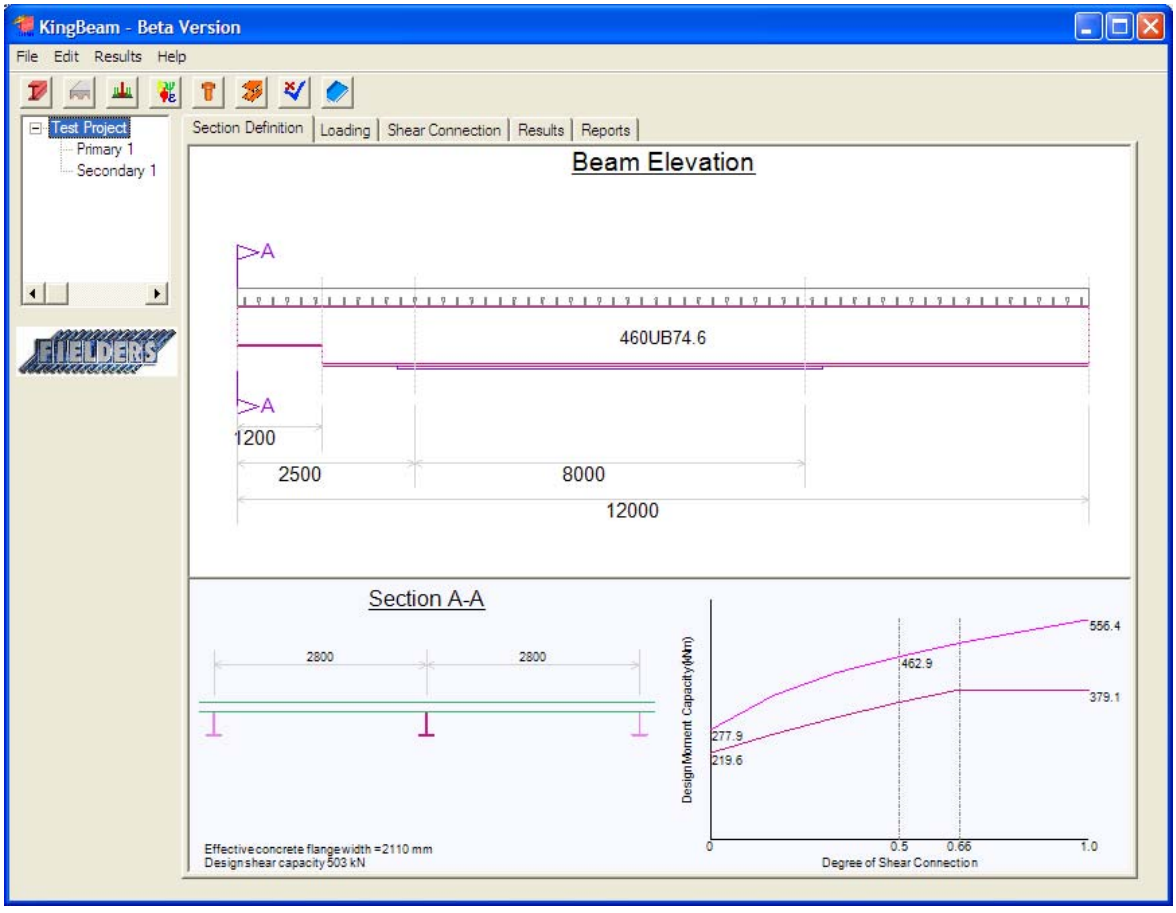
KingBeam is a software development for FIELDERS to be utilised to promote their products in the Australian Market.

KingBeam has been developed in conjunction with MP Engineering and is a stand alone piece of software for the design of composite simply supported beams in accordance with the Australian Standard AS 2327.1.

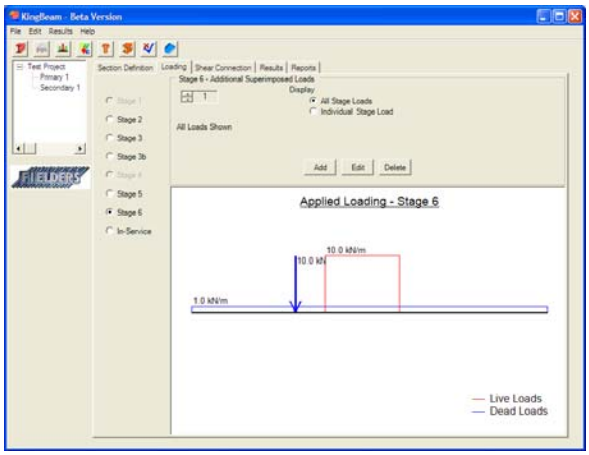
All the input for this software is entered through a user friendly graphical interface. This includes all beam dimensions and the slab details. Through this interface the user steps through the various stages of input starting with the beam parameters then onto defining the loading conditions at the various stages of construction.

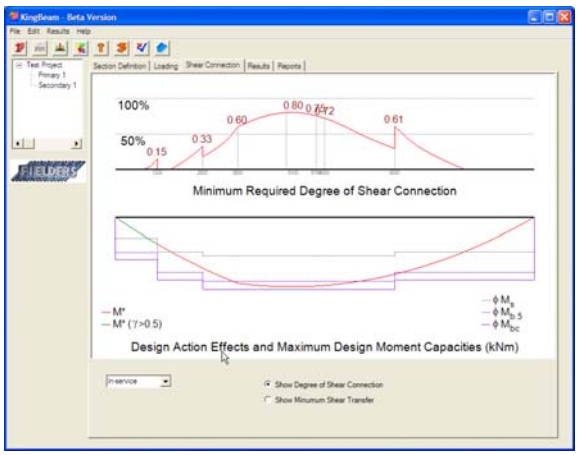
Once the user inputs are defined the software determines the required shear connection to design the beam under partial shear conditions. Through the graphical interface the user can investigate the applied moments, shears at any stage and print off the corresponding stresses, and deflections. The compliance with the standard in relation to maximum stresses and deflections are also checked.

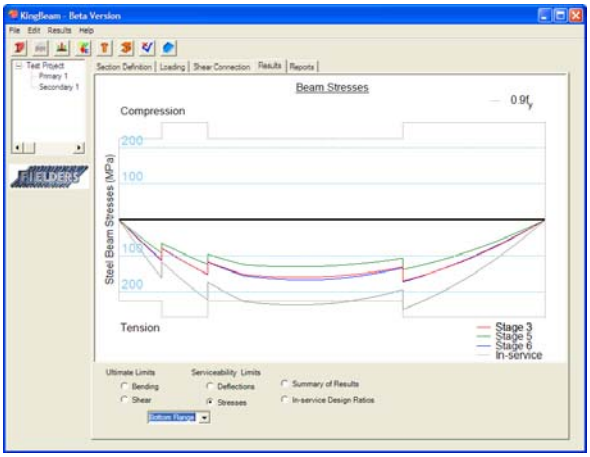
As with all software developed by ABES, *KingBeam* has been designed as an easy tool to assist the designer and provide the client with software that meets the needs of the market.

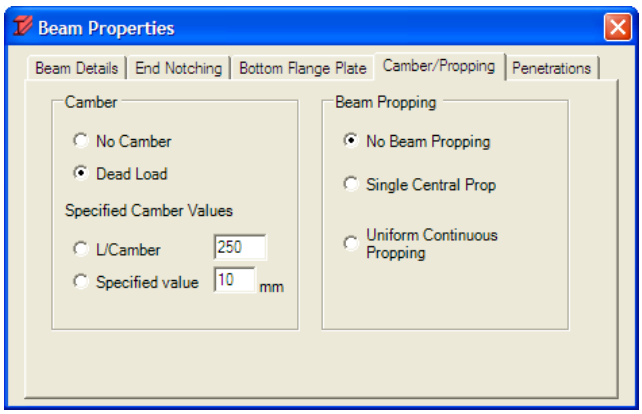


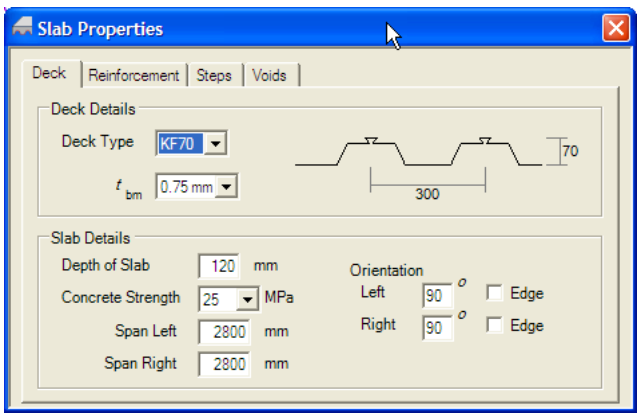
KingBeam (2/2)


Applied Loading - Stage 6
Live Loads
Dead Loads


Minimum Required Degree of Shear Connection
Design Action Effects and Maximum Design Moment Capacities (kNm)


Beam Stresses
Compression
Tension
Steel Beam Stresses (MPa)
Stage 3
Stage 5
Stage 6
In-service


Beam Properties
Beam Details
End Notching
Bottom Flange Plate
Camber/Propping
Penetrations
Camber
No Camber
Dead Load
Specified Camber Values
L/Camber
250
Specified value
10
mm
Beam Propping
No Beam Propping
Single Central Prop
Uniform Continuous Propping


Slab Properties
Deck
Reinforcement
Steps
Voids
Deck Details
Deck Type
KF70
0.75 mm
70
300
Slab Details
Depth of Slab
120
mm
Concrete Strength
25
MPa
Span Left
2800
mm
Span Right
2800
mm
Orientation
Left
90
Edge
Right
90
Edge