

Cellular Fabsec Beam Design using Tekla Structural Designer & FBEAM webinar: Q&A Document

QUESTIONS	ANSWERS
Does TSD vibration analysis take into account the FBEAM when assessing excitation of the floor? If not does this function exist within FBEAM?	FBEAM calculates natural frequency of the individual beams only, there is no method within FBEAM to calculate a response factor. Tekla Structural Designer does calculate a response factor. It uses the inertia calculated and listed in the beam details, when the FBEAM is defined and added into the database. Deflection is based on the calculated inertia.
I am wondering whether the FBEAM software married only with TSD or the FBEAM results/files could also be exported to other FEA packages?	FBEAM are continually review Import / export regimes so are open to suggestions from its user base.
Is there an API in FBEAM you can link with excel for example?	This is being explored currently.
Is there a webinar available for use of the FBEAM software itself?	We can create specific webinars as required by our users. We are formulating standard webinars which will be stored on our website but these are being developed currently.
Can you export standard UB sizes to FBEAM? And check openings on standard UBs?	No
Does FBEAM have vibration analysis?	Natural Frequency only
How are deflections calculated in FBEAM?	It checks the deflection in accordance with the Eurocodes and the latest SCI guidelines
Is there a plan to develop an open API?	This is being explored currently.
Will the FBEAM software ever be updated to allow any specified plate thicknesses to be used?	Fabsec currently reflects plate thicknesses that are available through standard procurement routes. If you have any specific requirements, please consult the FBEAM tech dept.
Can we build openings in Tekla structures and checked in FBEAM?	No, the link is between Tekla Structural Designer and FBeam. You could model in Tekla Structures, export the model to Tekla Structural Designer add openings and loads and then export to Beam and check.

Could you add the web openings in Tekla instead of FBEAM?	Yes, openings can be added in Tekla Structural Designer
Can we get a recorded version of the presentations?	A recording is available for you to view at any time: https://www.tekla.com/uk/resources/uk-webinars/cellular-fabsec-beam-design-0
Can we have this presentation in a video format? Are there any plans to add paint optimisation options to TSD?	A recording is available for you to view at any time: https://www.tekla.com/uk/resources/uk-webinars/cellular-fabsec-beam-design-0 There are currently no plans to add paint optimization to TSD.