

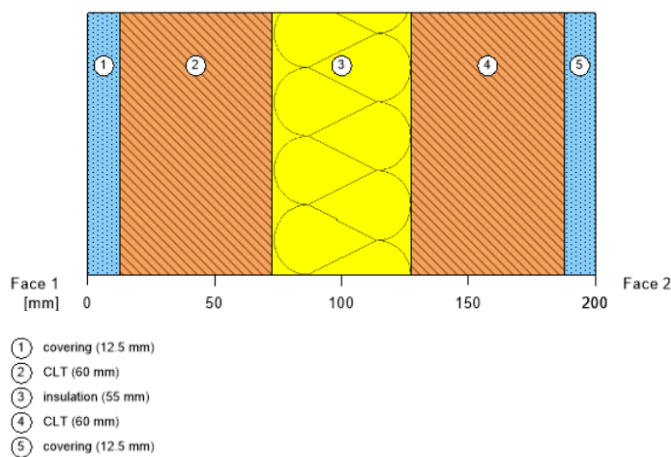
New features and changes in Calculatis 2021

The new release of Calculatis by Stora Enso

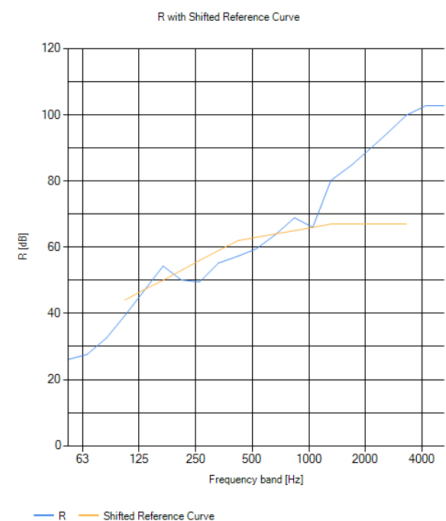
Since the last release of Calculatis by Stora Enso, some new features were added. Additionally some adaptations were made and some bugs were fixed.

Acoustics module

By using Calculatis acoustics module in the building physics section, one can predict the sound insulation of CLT floor and wall buildups. The user can choose between several floor buildups or suspended ceilings and change parameters like thickness, density or stiffness of several materials, to see, how these changes are influencing the airborne and impact sound insulation of the buildup. The software calculates the sound insulation over the whole frequency range from 50Hz to 5000Hz, what allows an accurate prediction also for spectrum adaption values C, C_{tr} and C_i. After the user has configured his buildup, the software will calculate the sound insulation values and the user can download the result as a PDF.



R _w	63 dB
C	-1 dB
C _{tr}	-7 dB
C ₅₀₋₃₁₅₀	-5 dB
C ₅₀₋₅₀₀₀	-4 dB



Connection design

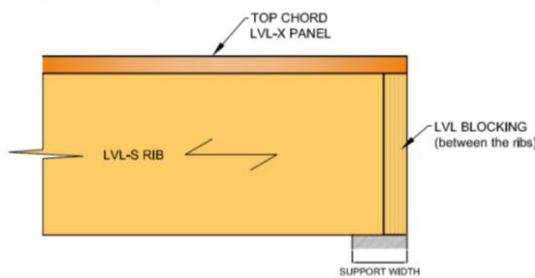
So far only some standard screws, nails and connectors from Rothoblaas and Würth have been supported by Calculatis. Calculatis 2021 is now supporting material from Simpson Strong-Tie, Sihga and Schmid Schrauben Hainfeld as well.



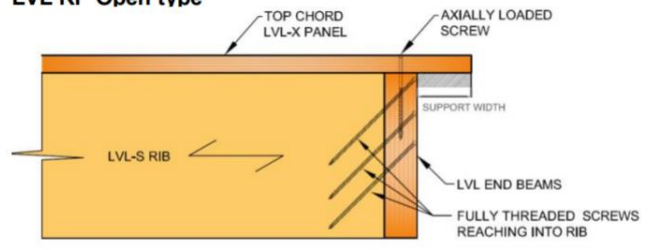
Suspended support design for LVL rib panel

Calculatis offers now suspended support design for open, semi-open and closed LVL rib panels as well as simple support design.

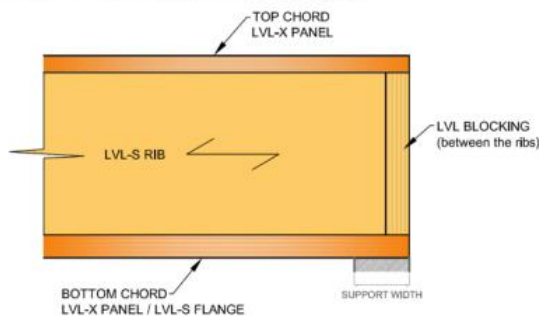
**Simple support
LVL RP Open type**



**Suspended support
LVL RP Open type**



**Simple support
LVL RP Semi-Open/Closed type**



**Suspended support
LVL RP Semi-Open/Closed type**

