

"AlphaCell is probably the most advanced TMM/FTMM suite for NVH simulations"





KEY FEATURES

- intuitive interface
- listening of solution efficiency
- plane and curved geometries
- thermal properties including bridges
- multiple studs in series
- generalised equivalent plate & porous models
- imperfect interfaces
- corrugated & ribbed plates
- multiple **fluids** including water
- compressed fibrous model
- extended material library
- fully scriptable
- export of material cards and FE model

MATERIAL MODELS

porous materials

fibrous, foams, granulars, compressed, orthotropic

perforated plates

circ., square, conical, slit perf., non-woven, annular pores, high SPL

→ solid materials

isotropic, visco-elastic, orthotropic

3D, thin plate, transverse isotropic

 \longrightarrow equivalent plate models

condensed, corrugated, stiffened/ribbed plates

← heterogeneous materials

elastic / solid / porous inclusions, resonators, sorption

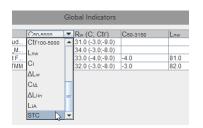
VIBRO-ACOUSTIC EXCITATIONS

 \longrightarrow air borne sounds

plane waves, diffuse field, modal sound field

→ structure borne excitations

dynamic force, moving wall, tapping/rolling machine, rain fall



AlphaCell runs under MS-Windows 7,8,10,11; Linux; Unix; Mac

