



AcouS STICS21

Software for the prediction of airborne
and impact noise insulation

What is AcouS STICS21 ?

AcouS STICS21® is a software package for the prediction of airborne and impact noise insulation between premises.

Our software is based on the calculation methods of the ISO 12354 series of standards and calculates the acoustic magnitudes $D_{nT,W}$ (C; CTr) and $L'_{nT,W}$ (CI; CI50-2500) in compliance with ISO 717. It can integrate simulations from the AcouS STIFF® and AcouS STING® software suite.

“ Open tool that can integrate user data from laboratory or in situ measurements. ”

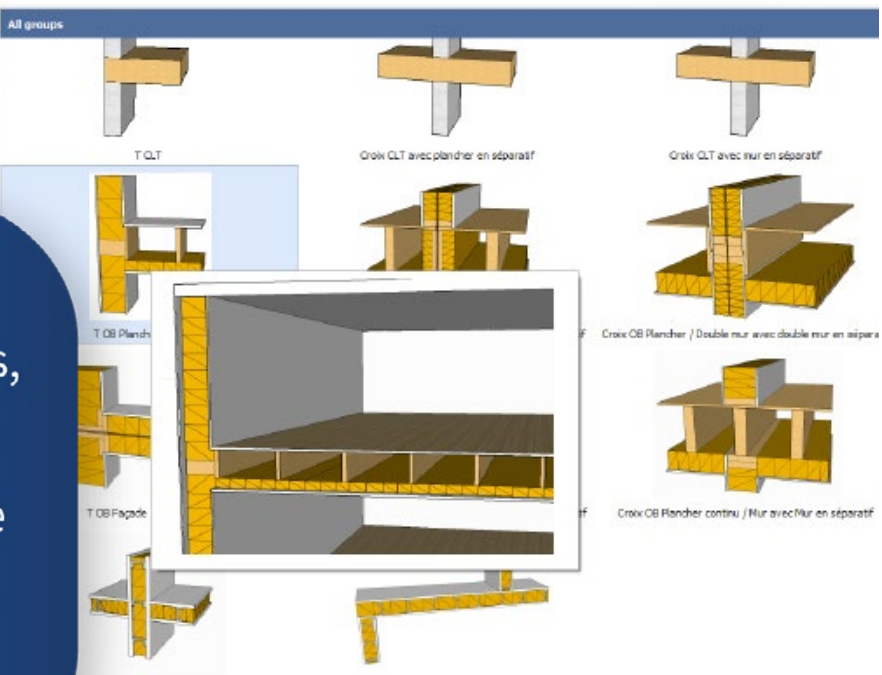
Local d'émission (A) - Chambre R-1		Local de réception (B) - Chambre RDC	
Longueur	2.0 m	Longueur	2.0 m
Profondeur	4.0 m	Profondeur	4.0 m
Hauteur	2.5 m	Hauteur	2.5 m
Volume	20.0 m³	Décalage façade B	0.0 m
		Décalage mur opposé B	0.0 m
		Décalage mur intérieur 1 (ou gauche) B	0.0 m
		Décalage mur intérieur 2 (ou droite) B	0.0 m

AcouS STICS21® is the latest module complete the AcouS STIFF® and AcouS STING® software suite. These programmes are used to simulate sound attenuation and impact noise, and have been tested and validated by a considerable number of licensees for several decades in France and in other countries.

Applications for the software

- AcouS STICS21® is an ergonomic tool that allows:
- The assessment of the airborne noise and impact noise insulation between two rooms;
- The optimisation of structure sizes to achieve the desired objectives;
- The assessment of the parameters influencing the insulation performance between premises;
- The precise quantification of all the transmission paths involved in acoustic insulation;
- The integration of complex building systems using simulations of sound reduction indices and impact noise levels from the AcouS STIFF® and AcouS STING® software suite.
- The application of any type of connection between elements (normative, measured, simulated);
- Access to all results in global values (according to the ISO 717 and ISO 10140 series of standards) and by thirds or octave bands in the form of customisable tables and graphs.

“ In addition to our tutorials, our development teams can also train you in the use of AcouS STICS21®. ”

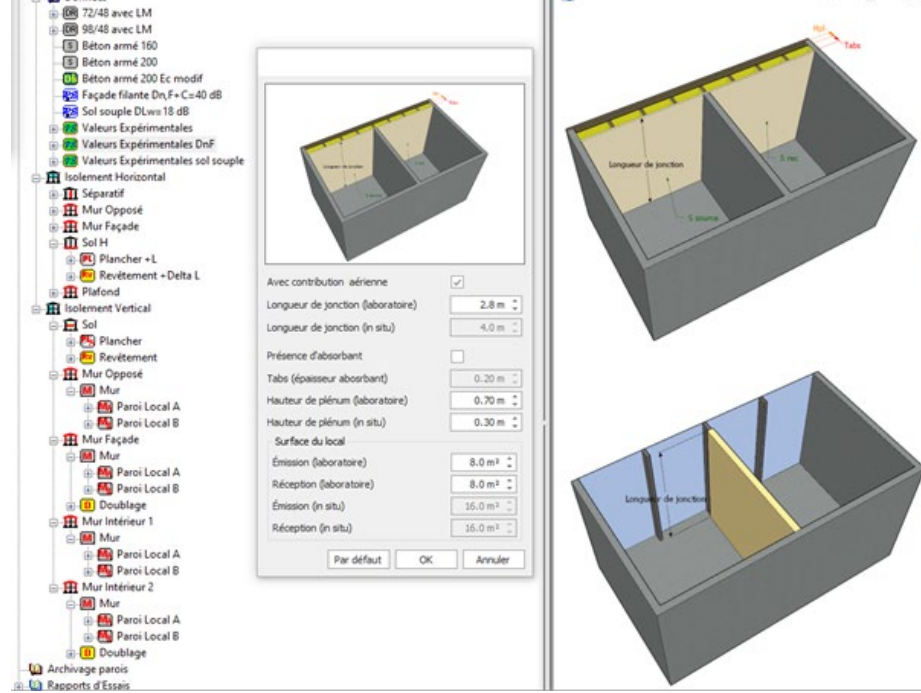


AcouS STICS21® allows the simulation results of AcouS STIFF® and AcouS STING® to be integrated into the calculation of the insulation between premises of many construction complexes (concrete/heavy/wood/LCT floors, suspended ceilings, brick or block facades, lined or unlined, partitions, wood frame walls, etc.). In AcouS STICS21, users can also integrate their own data from laboratory or in situ measurements (R , L_n , ΔR , ΔL , K_{ij} , $D_{vij,n}$, D_{ne} , D_{np} ...).



Target audience

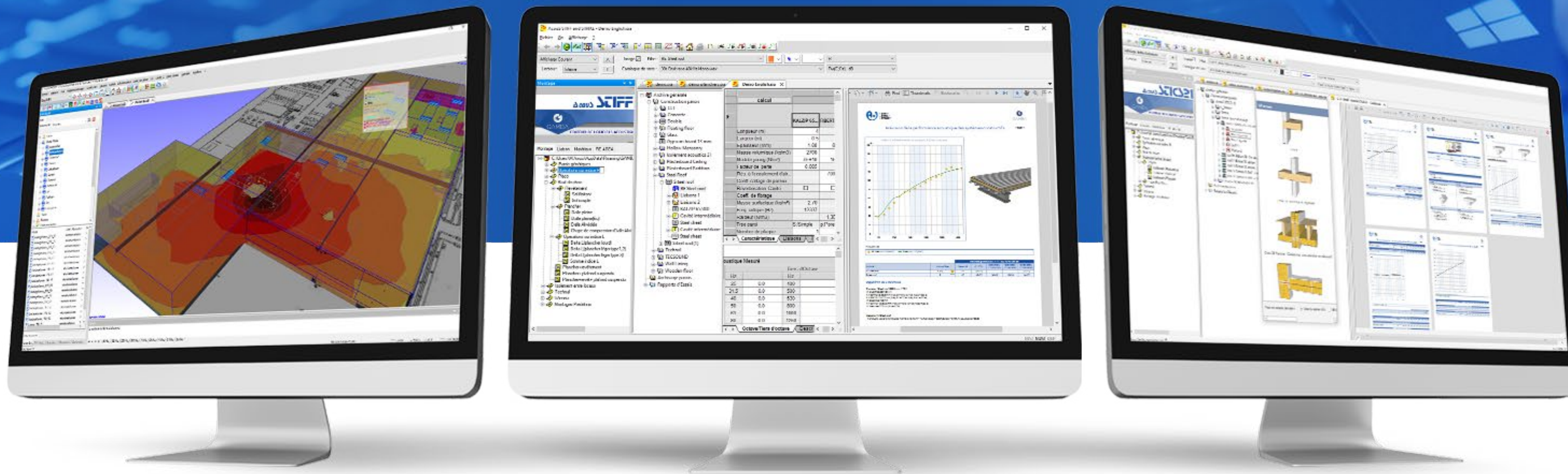
AcouS STICS21® is designed for construction professionals who need to comply with statutory or programme-specific acoustic requirements in terms of sound insulation against interior airborne noise and impact noise for all types of premises (housing, offices, health or education establishments, etc.) and for many types of construction (concrete, masonry, CLT, wood, etc.).



The AcouS STICS21® calculation model is based on the approach of the ISO 12354 series of standards, and of all the latest studies and R&D developments of the GAMBA group.

AcouS STICS21® can calculate the performance of a transmission path by various approaches, especially by the sound attenuation indexes and the impact noise associated with junctions or by lateral insulations ($D_{n,f}$ / $L_{n,f}$).

ACOUSTIC SOFTWARE



Discover other software :



Software for the prediction of airborne and impact noise insulation



Software used for predicting the sound reduction index



ACOUSTIC SOFTWARE

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