

Acous STING®

ACOUSTIC ENGINEERING SOFTWARE



Impact noise level forecasting software

The AcouS STING® software has been developed from the acquired

experience and from the daily confrontation with concrete problems of impact noise insulation.

Some main characteristics:

Models of robust calculations

Therefore we have developed theoretical basic models either within the framework of internal research, or within the framework of research under

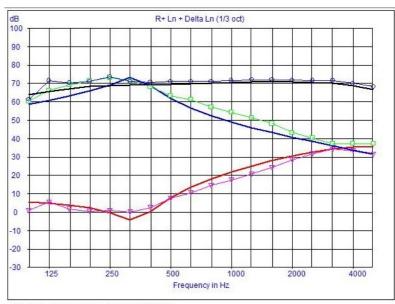
This work has allowed us to define the requiring only parameters of entry which are accessible to an acoustician on the ground: dimensions, Young's

Minimum PC configuration:

- Windows 7, Vista, Windows XP
- Computer provided with a CD-Rom drive and a hard disk,

The AcouS STING® software is a simple and adaptable tool which allows by its applications to:

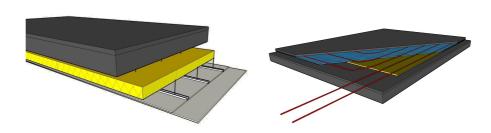
- Determine the impact noise level of a simple or complex floor,
- Help in the development of new products,
- Optimize operations of measurement in a laboratory,
- Estimate the performance of a floor covering,
- Extrapolate the performances of conventional works,
- Forecast of unconventional works and their optimization,
- Understand the acoustic behavior of a floor.



Rw(C;Ctr) dB ou Ln(LnA;Lnw) ou DLn(DLnA;DLnw)

Floor heating : DLn(12;17) ──RE Floor heating : DLn(13;16) ──
RE Slab 14 cm + floor heating : Ln(71;63) ──Reinforced concrete 1

→ RE Reinforced concrete 14 cm : Ln(82;78) -Slab 14 cm + floor heating : Ln(70;61) oed concrete 14 cm : Ln(81;76)

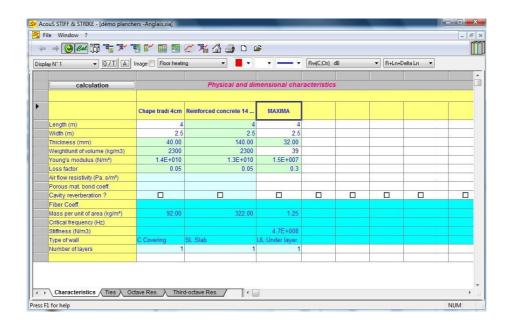


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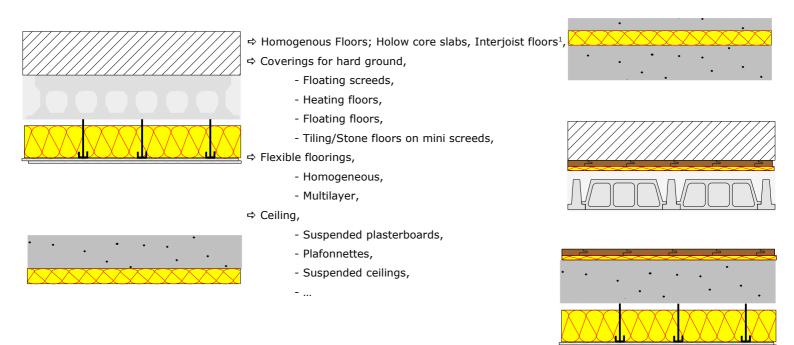
E-Mail: contact@acoustique-gamba.fr - Site: http://www.acoustique-gamba.fr

The acoustic performance of floors

The AcouS STING® softawre has been developed thanks to the acquired experience and the daily confrontation with concrete problems of impact noise insulation. This experience has allowed us to define the essential and relevant characteristics, requiring only parameters of entry which are accessible to an acoustician on the ground.



Assembly bank the various types of simulated floors



¹ The holow core slab and interjoist floors are under implementation

The acoustic performance of floors

User-friendly interface

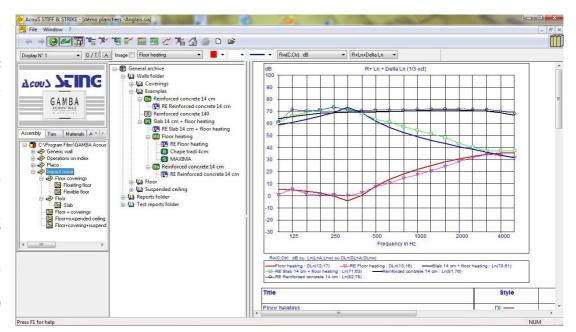
Customizable display and printing facilitates adaptation as necessary.

A database containing the most common materials coupled with a variety of basic models allows the user to simulate from very simple floors to very complex floors.

The ability to create new materials and reuse already made arrangements provides unparalleled comfort and flexibility of use.

The automation of calculations and effort devoted to their speed of execution can have a greater interactivity between the changes of characteristics and outcomes.

Assistance in the creation of floors allows the user to become operational very quickly.



The results

are presented as graphs and / or customizable tables with global values in L_w , L_{nAT} , ΔL_w and ΔL_A conforming to international standards (ISO 717-2 ...) and by one-third octave or octave.

Title			Style		Ln dB(A)			Delta L dB(A)	De	Delta Lw dB 17 16	
Floor heating RE Floor heating Slab 14 cm + floor heating RE Slab 14 cm + floor heating Re Slab 14 cm + floor heating Reinforced concrete 14 cm RE Reinforced concrete 14 cm			DL— TR ▽ L — TR □ L — TR ◊		70 71 81 82		61 63 76 78				
		Results in	octave band (Central freque	ency in Hz)	8			20	410	
Title	Style	31.5	63	125	250	500	1000	2000	4000	8000	
Floor heating RE Floor heating Slab 14 cm + floor heating RE Slab 14 cm + floor heating Reinforced concrete 14 cm RE Reinforced concrete 14 cm	DL— TR₹— L— TR⊕— L——	6 54 60	6 60 65	4 2 66 71 70 74	73 77 73 77	4 5 70 70 74 75	20 16 55 59 75 76	30 27 46 50 75 76	35 33 39 42 73 75	28 36 64	

For additional information please contact:

GAMBA ACOUSTIQUE ET ASSOCIES

163 Rue du Colombier - BP 67678 31676 LABEGE Cedex - FRANCE

Tél.: +33 (0)5 62 24 36 76 - Fax: +33 (0)5 62 24 35 25 E-Mail: logiciel.gamba@acoustique-gamba.fr Site: http://www.acoustique-gamba.fr