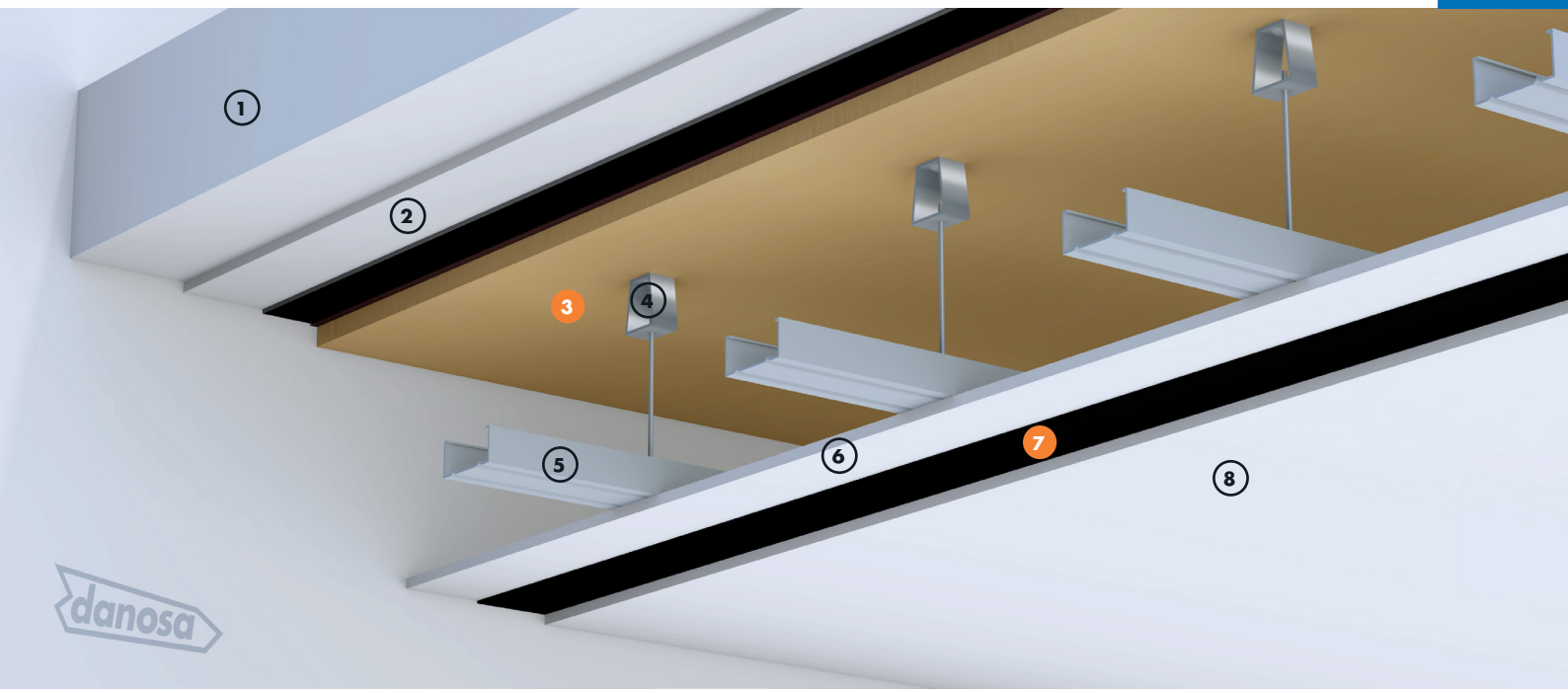
CEILING ACOUSTIC HANGER SYSTEM FOR MUSICAL PREMISES WITH EMISSION > 90 dBA

TEF3

Acoustic insulation: High-density bituminous sheet /
Cross-linked polyethylene with acoustic membrane and rock wool



NOISE PROTECTION **SONODAN® PLUS**	NOISE PROTECTION **M.A.D.®**

ADVANTAGES

- Acoustic insulation achieved D_{nTA} > 70 dB.
- Plastering ensures the tightness of the floor.
- Mass-spring-mass system with absorption at low, medium and high frequencies.
- The chamber material dampens impulsive noises of low frequencies.
- The membrane between boards displaces the resonance frequencies of the system towards less audible frequencies and improves isolation at low frequencies.
- Its thermal insulation capacity can be improved by introducing mineral wool.
- The cavity may be the minimum allowed by the premises.
- The spring acoustic hanger prevents excitations of low, medium and high frequencies.
- Light system providing better results and speed of execution.

LEGEND

False ceiling:

1. Slab
2. Plastered
3. Acoustic insulation SONODAN® PLUS Self-adhesive
4. Spring acoustic hanger
5. Plasterboard structure
6. 12.5 mm plasterboard
7. Acoustic insulation Acoustic Membrane Danosa M.A.D.® 4
8. 12.5 mm plasterboard

APPLICATION AREAS

- Machine rooms in residential buildings: hotels, hospitals, teachers and offices.
- Music venues: pubs, karaokes, party rooms...

danosa
Building together

TEF3

TECHO FLOTANTE PARA LOCALES CON EMISIÓN > 90 dBA CON MÚSICA

Aislamiento acústico: Lámina bituminosa de alta densidad/ Polietileno reticulado con membrana acústica y lana de roca

TECHNICAL DETAILS

Function	Product	Description	Property	Value
Anti-resonant acoustic insulation	**M.A.D.® 4**	High-density bituminous membrane	ΔR_w between rigid elements	4 dB
Acoustic insulation at impulse noise of low, medium and high frequencies	**SONODAN® PLUS Self-adhesive**	Panel composed of a first layer of cross-linked polyethylene foam and high density membrane and a second layer of high density membrane and mineral wool	R_w	52 - 65 dB

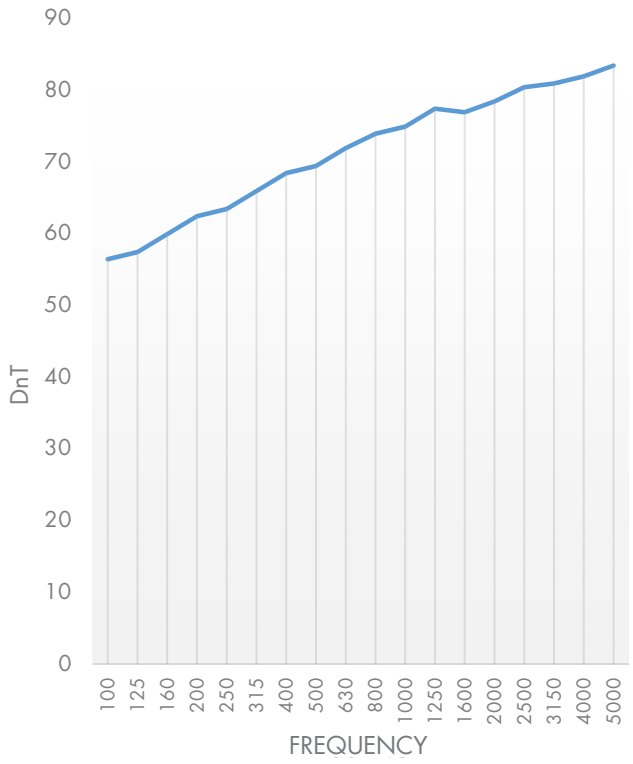
Note: This sheet is included in an acoustic box-in-box system.

APPLICATION METHOD

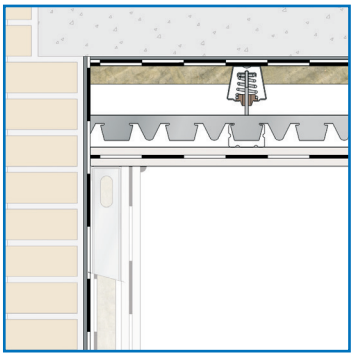
Ceiling acoustic hanger system for acoustic isolation of musical premises with an emission > 90 dBA formed by:

Plastering of the roof; Multi-layer insulation for low, medium and high frequencies of 40 mm thickness, SONODAN® PLUS SELF-ADHESIVE mechanically fixed with 40 insulation fixing; Spring acoustic hanger attached to the beam with a steel anchor plug and Ø 6 rod; plasterboard structure of double profiles; placement of 12.5 plasterboard fixed to the structure by means screws; 4 mm thick Danosa M.A.D.® acoustic membrane fixed to the board by means of staples; fixing to the structure of the second plasterboard of 12.5 mm thickness by means screws, fully sealed and installed, ready to apply decorative suspended ceiling to carry installations.

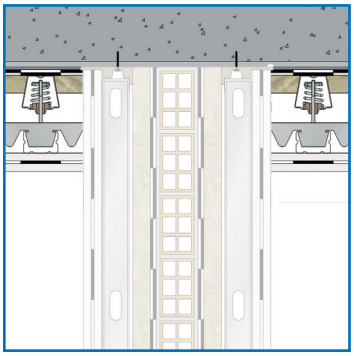
GRAPH



CONSTRUCTION DETAILS



Junction of wall with ceiling



Junction of ceiling with separating wall

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