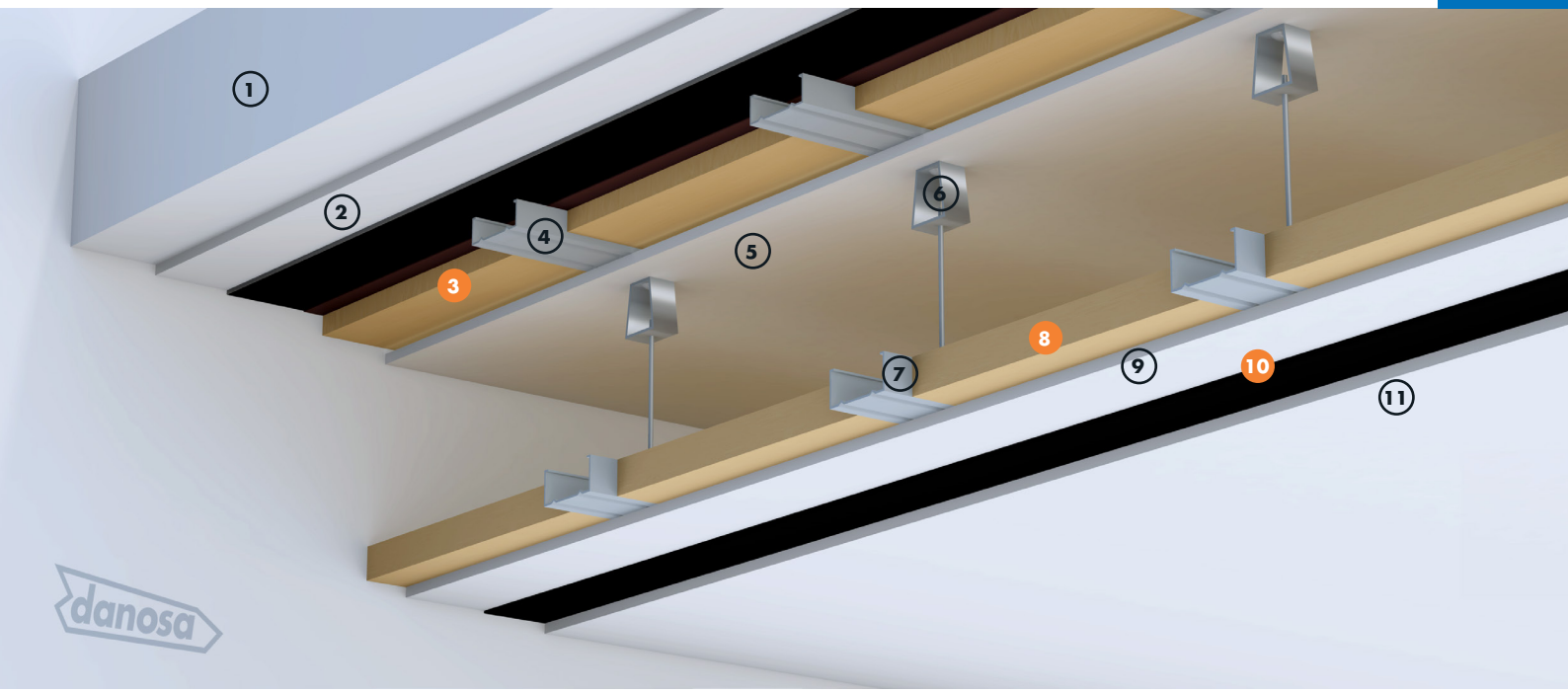
HIGH PERFORMANCE CEILING ACOUSTIC HANGER SYSTEM

TEF4

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



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

ADVANTAGES

- Acoustic insulation achieved D_{nTA} > 75 dBA.
- Plastering ensures the tightness of the floor.
- Mass-spring-mass system with absorption at low, medium and high frequencies.
- The direct placement of plasterboard of 15 and SONODAN® PLUS increases the pre-slab insulation at low, medium and high frequencies.
- The material in the first cavity dampens impulsive noises of low frequencies.
- The membrane between boards displaces the resonance of the system towards less audible frequencies and improves isolation at low frequencies.
- Mineral wool avoids the "drum" effect between boards.
- The waterproof chamber may be the minimum allowed by the premises.
- The spring acoustic hanger prevents excitations at low, medium and high frequencies.
- Light system providing good results and speed of execution

APPLICATION AREAS

- Musical premises with emission 100-105 dBA and night time: live music, discos, wedding halls, etc.
- Music recording studios.

LEGEND

Suspended ceiling:

1. Slab
2. Plastered
3. Acoustic insulation SONODAN® PLUS Self-adhesive
4. Plasterboard structure
5. 15mm plasterboard
6. Spring acoustic hanger
7. Plasterboard structure
8. ROCDAN® 231/40 acoustic insulation
9. 12.5 mm plasterboard
10. Acoustic insulation Acoustic Membrane Danosa M.A.D.® 4
11. 12.5 mm plasterboard

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Building together

TEF4

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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 rock wool	R_w	52 - 65 dB
Acoustic insulation absorbent at medium and high frequencies	**ROCDAN® 231/40**	Rock wool panel	R_w	40 - 61 dB

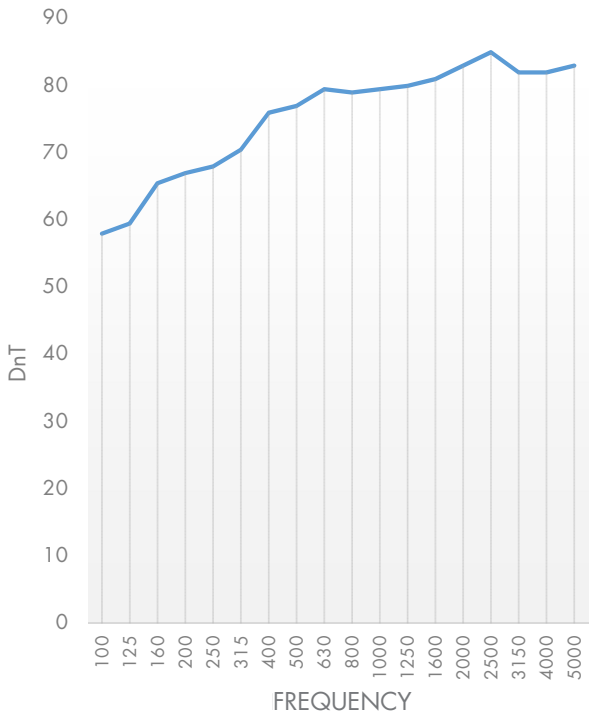
Note: This sheet is included in an acoustic box-in-box system.

APPLICATION METHOD

Ceiling acoustic hanger system for the acoustic isolation of musical premises with emission up to 105 dBA formed by:

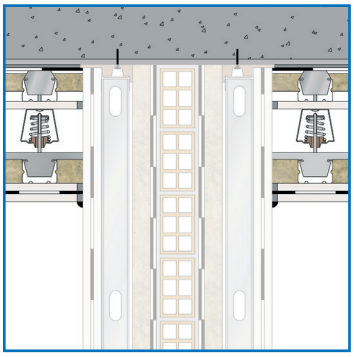
Plastering of the roof; Direct placement of 15 mm plasterboard fixed to the roof by means of a structure with multilayer insulation for low, medium and high frequencies of 40 mm thickness, SONODAN® PLUS SELF-ADHESIVE mechanically fixed with 40 insulation fixing; Spring acoustic hanger attached to the structure through the plasterboard; structure of double profiles with mineral wool deposited on the structure of 70 kg/m³ density and 40 mm thick, ROCDAN® 231/40; placement of 12.5 laminated 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 of screws, fully sealed and installed, ready to install decorative false ceiling.

GRAPH



CONSTRUCTION DETAILS

Junction of wall with ceiling



Junction of floating ceiling with separating wall

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More information: www.danosa.com