

# Phono Spray

HIGH-DENSITY  
THERMO ACOUSTIC  
POLYURETHANE  
SPRAYING

# S907



## Characteristics

Sprayed polyurethane system for thermal and acoustic insulation against impact and airborne noise in different building solutions.

It is an open-cell high-density foam, Applied Density:  $60 \pm 10 \text{ kg/m}^3$

Its porosity and elasticity make it an ideal material for insulation from impact noise from flooring or slabs.

Dynamic Stiffness:  $s' = 17.76 \text{ MN/m}^3$

It is a good thermal insulating material.  $\lambda = 0.035\text{--}0.040 \text{ W/mK}$ .

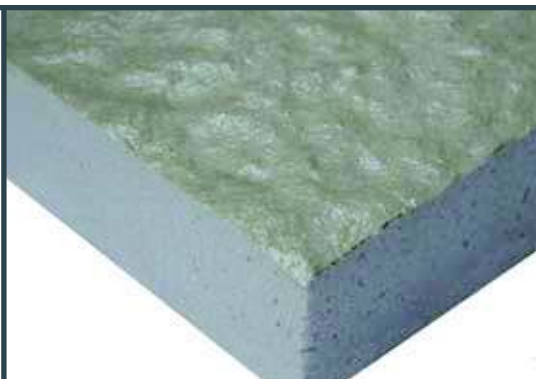
Resistance to Compression (10%). Between 30 – 40 KPa, depending on thicknesses.

Same advantages of application as in Poliuretano S Spray. Continuous system without thermal or acoustic bridges.

The required acoustic insulation from impact noise on premises should not be more than 65 dB. When one of the premises bounds with a premises of activities or installations, the overall level of pressure of impact noise will not be greater than 60 dB.

PROPERTIES	PHONO SPRAYS907
APPLIED DENSITY UNE –EN 1602	$60 \pm 10 \text{ Kg/m}^3$
RESISTANCE TO COMPRESSION UNE-EN 826 (20 mm thickness)	30–40 kPa
DIMENSIONAL STABILITY 24 h, –30, 60°C	0.5% Vol.
CLOSED CELLS ISO 4590	< 5%
THERMAL CONDUCTIVITY COEFF. 20°C, 1 year	0.035–0.040 W/m K
ACOUSTIC ABSORPTION COEFF. according to UNE-EN 20354:1993	0.32
DYNAMIC STIFFNESS $s'$ According to UNE-EN 29052/1	$17.76 \text{ MN /m}^3^*$
FIRE BEHAVIOUR EUROCLASSES UNE-EN 13501-01:2002	F (Bare)

(\* ) Tested and certified for dynamic stiffness  $s'$  in Laboratorios APPLUS, report no. 08/32309500





## Tests

SEPARATING ELEMENT	U (W/m²K)	$\Delta L$ (dB)	$L_{nw}$ (dB)	$R_A$ (dBA)
STANDARD SLAB + 20 mm Phono Spray S907 + 50 mm MORTAR	1.280	14	60	56

Certificate issued by Labein, Acoustics Area of the Quality Control Laboratory of the Basque Government (Vitoria-Gasteiz). Test Report 90.2632.0-IN-CT-08/16 I and II dated 01-04-2008.

SEPARATING ELEMENT	U (W/m²K)	$L'_{nTw}$ (dB)
CONCRETE SLABBING + 20 mm Phono Spray S907 + 50 mm MORTAR	1.280	< 65*
CONCRETE SLABBING + 30 mm Phono Spray S907 + 40 mm MORTAR	0.960	< 65*

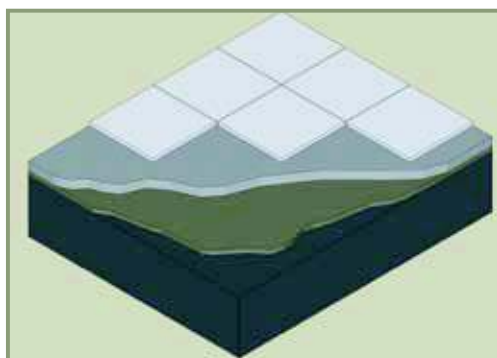
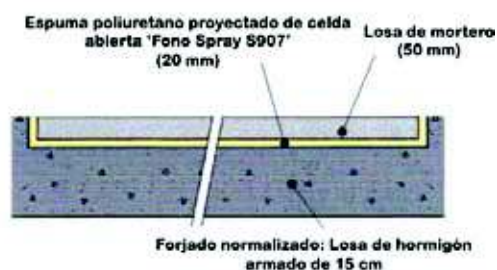
(\*) Estimated values with testing pending

### Technical Code Requirements

CTE DBHR

$L'_{nTw} \leq 65$  dB

SLABBING + Phono Spray S907 20mm+  
MORTAR 50 mm, standard slab



## Conclusions Phono Spray S907

- HIGH-DENSITY THERMO ACOUSTIC SPRAYED POLYURETHANE SYSTEM FOR INSULATION FROM AIRBORNE NOISE AND IMPACT ON FLOORING OR SLABBING.
- BUILDING SOLUTIONS FOR FLOORS OR SLABS  $L'_{nTw}$  (dB) <65. COMPLIES WITH CTE DB HR.