

# UNI Silence System®

SOUND REDUCING PRE FABRICATED BASE FLOOR SYSTEM

Uni Silence System®:  
the solution for impact-  
noise problems in multi-  
storey buildings such as  
apartments and office blocs!  
The search for the right  
construction combined with  
the knowledge of the Uni  
Silence System® pre fabricated  
dry sub floor!  
Uni Silence System® has been  
thoroughly tested by accredited  
laboratories and is the first  
certified and approved solution  
in this field!

## Uni Silence System®: 26 dB $\Delta L_w$ impact-sound reducing pre fabricated sub floor system

Uni Silence System® is made out of impact-sound reducing materials. The 30 mm Uniboard detaches the impact sound and allows pipes to be installed onto the construction floor.

30 mm Multipanels are installed in brick fashion onto the Uniboards. They have a tongue-and-groove connection, which is to be glued together with PU adhesive. Uni Silence System's total height of 60 mm compares favourably with a traditional floating substrate placed on a mineral in-between layer!

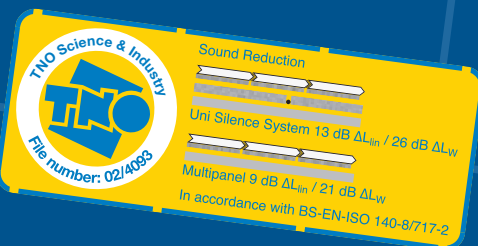
**Uni Silence System® has been tested and certified by European accredited laboratories.**

In accordance with EN-ISO 140-8/717-2 impact-sound is reduced with:  
26 dB  $\Delta L_w$  / 13 dB  $\Delta L_{in}$  for the entire system. In case when only the Uni Silence Multipanel is used, already 21 dB  $\Delta L_w$  / 9 dB  $\Delta L_{in}$  is achieved.

In case you need to improve the construction base floor, meaning adjusting it to the requirements of sound reduction as stated in the Building Regulations, consequently you will need to load that construction floor with most heavy material such as screeds and concrete. The principle of Uni Silence System® is that once applied, it will immediately provide the construction floor with an impact sound reducing capacity of no less than 26 dB  $\Delta L_w$ , without influencing weight and height as far as concerned the total construction of the multi-storey building in question.

Moreover, once the Uni Silence System® is installed, there are no limitations to the finished floor covering of your choice. Almost anything can be fitted onto the Uni Silence System®, without any limitations regarding the impact sound sensibility of that specific flooring material. On completion Uni Silence System® proves to be a universal basic floor for a variety of coverings. An even higher impact-sound and acoustic insulation value may be achieved together with specific sub floors. Unifloor is more than happy to provide you with further information.

**Innovative and impact-sound reducing building now  
reaches a new dimension with Uni Silence System®.**



## Technical specifications

Article number Uni Silence System® Multipanel	127.200
Article number Uni Silence System® Uniboard	127.100
Article number Uni Silence System® side strips	141.000
Article number Uni Silence System® DPM foil	138.500
Article number Unifloor ALU tape	139.000

### Multipanel on Uniboard

Impact noise insulation according to BS-EN-ISO 140-8 / 717-2 (NPR 5079):	
On concrete floor, weighted test:	13 dB $\Delta L_{in}$ ; 26 dB $\Delta L_w$
On concrete floor, unweighted test:	13 dB $\Delta L_{in}$ ; 26 dB $\Delta L_w$
On wooden floor, unweighted test:	10 dB $\Delta L_{in}$ ; 10 dB $\Delta L_w$
TNO Rapport no.	DGT-RPT-040016
Thermal resistance: $R_m$ -value ( $m^2.K.W.^{-1}$ )	0.76

### Multipanel 60 by 120 cm

Impact noise insulation according to BS-EN-ISO 140-8 / 717-2 (NPR 5079):	
On concrete floor, weighted test:	9 dB $\Delta L_{in}$ ; 21 dB $\Delta L_w$
On concrete floor, unweighted test:	12 dB $\Delta L_{in}$ ; 23 dB $\Delta L_w$
On wooden floor, unweighted test:	7 dB $\Delta L_{in}$ ; 6 dB $\Delta L_w$
Report no.	DGT-RPT-040016
Thermal resistance: $R_m$ -value ( $m^2.K.W.^{-1}$ )	0.27

Dimension	584 by 1,184 mm
Thickness	30 mm
Weight (kg/panel)	21
Weight (kg/m <sup>2</sup> )	30.4
Dimension/tolerance dimensions (mm/m')	± 1.5 mm
Dimension/height tolerance tongue-and-groove connection	± 0.3 mm
Raw material(s) combinations:	
top board	18 mm concrete-bound wood fibre
base board	12 mm soft board (softwood, hardwood)

Colour	Grey/natural
Bending strength, kg/cm <sup>2</sup> (at 90°)	≥ 9 N/mm <sup>2</sup>
Elasticity module (at 90°)	4,500 N/mm <sup>2</sup>
Pulling strength (board surface of the top board)	≥ 0.5 N/mm <sup>2</sup>
Fire category, DIN 4102	B2
Fire conduct top board:	
- non-flammable (NEN 6064)	1
- fire-reproduction category (NEN 6065)	≤ 0.1m <sup>-1</sup>
- smoke density (NEN 6066)	6 - 12
Humidity (%)	max. 1.5%
Swelling after 24 hrs in water (submerged)	

### Multipanel packaging

Pallet contents	shrinking cover
Pallet height (cm)	30 panels = 20.74 m <sup>2</sup>
Pallet dimensions (l/w/h mm)	105 (pallet included)
Pallet weight (kgs)	1,200 by 600 by 150
	630

### Uniboard

dimension	584 by 1,184
weight (kg/m <sup>2</sup> )	5.7
thickness	30 mm
colour	natural

### Uniboard packaging

Pallet contents	shrinking cover
Pallet height (cm)	30 panels = 20.74 m <sup>2</sup>
Pallet dimensions (l/w/h mm)	105 (pallet included)
Pallet weight (kgs)	1,200 by 600 by 150
	120



## Contents pallet

# 30

- panels
- 20,74 m<sup>2</sup>

## Thickness 30 mm

Sound Seal  
P.O. Box 545  
Agawam, MA 01001

Phone: 413-789-1770  
Toll Free: 800-569-1294



**unifloor**  
UNDERLAY SYSTEMS