Progress Profiles SpA
Via Le Marze, 7
31011 ASOLO (TV) Italy

Tel. +39 0423 950398
Fax +39 0423 950979
Azienda certificata UNI EN ISO 9001:2015

P.I. IT 03481880262 - R.E.A. TV 275319
C.F. e Iscr. Reg. Impr. TV 03481880262
Cap. soc. € 120.000,00 i.v.
N. Meccanografico TV 44685

TEXT REPORT Pag. **1/9**

N° 0050\DC\ACU\18 Date: **20/07/2018**

SPECIMEN DESCRIPTION:

PRODESO SOUND
Impact sound insulation roll

CLIENT:

PROGRESS PROFILES S.p.A.
VIA LE MARZE, 7
31011 ASOLO (TV)

REFERENCE STANDARD:

EN ISO 10140-3:2010
EN ISO 717-2:2013

OUTSIDE DISTRIBUTION:

PROGRESS PROFILES S.p.A.

INSIDE DISTRIBUTION:

ACCREDITATION BODY:

GRUPPO IMQ

CSI S.p.A.
Sede Legale
Cascina Traversagna, 21
20030 SENAGO (MI)

Direzione - Uffici - Laboratori
Viale Lombardia, 20 - 20021 BOLLATE (MI)
Tel. +39 02 383301 - Fax +39 02 3503940
www.csi-spa.com

R.E.A. 1466310
Registro Imprese 352168/8620/18
C.F./P.I.:IT11360160151
Cap. Soc. € 1.040.000

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DATI GENERALI

Sample supply date	06/07/2018
Text date	10/07/2018
Sampling	Sample supplied by client

Standard reference identification
EN ISO 10140-1:2016
Acoustic – Laboratory measurements of sound insulation of building elements – Part 1: application rules for specific product
EN ISO 10140-3:2010
Acoustic – Laboratory measurements of sound insulation of building elements – Part 3measurement of impact sound insulation
EN ISO 717-2:2013
Acoustic – Laboratory measurements of sound insulation of building elements – Part 2: impact sound insulation

Standard procedure	SI
Standard procedure deviations	NO
Calculation check	SI

DECLARATIONS
The test results contained in this report relate only to the sample tested

The test report shall not be reproduced except in full without the written approval of the Head of Laboratory

Except where stated, characteristics of products were taken from client description and were not verified by the laboratory.

	TEXT REPORT	Pag. **3/9**
	N° 0050\DC\ACU\18	Date: **20/07/2018**

TEXT METHOD DESCRIPTION

Measurement of impact sound pressure level generated by standard tapping machine of the bare test floor
Measurement of impact SPL generated by standard tapping machine of the test floor with covering Measurement of reverberation time in the receiving room

Calculation of the normalized impact sound pressure level according to formula $L_{n0,n} = L_{1,2} + 10 \cdot \log(\frac{0{,}16\ V}{Ao\ T})$

where:

L_{n0} = normalized impact sound pressure level of bare floor (dB) L_n = normalized impact sound pressure level of floor with covering (dB)
L_1 = average sound pressure level of bare floor (dB)
L_2 = average sound pressure level of floor with covering (dB)
T = average reverberation time of receiving room (s)
V = volume of the receiving room
A_0 = reference equivalent sound absorption area (10 m^2)

Calculation of the reduction of impact sound by formula $\Delta L = L_{n0} - L_n$

Calculation of impact sound pressure level of the reference floor with tested covering by formula $L_{n,r} = L_{n,r,0} - \Delta L$ where $L_{n,r,0}$ is the normalized impact sound pressure level of the reference floor (ISO 717-2, par. 5.2) Calculation of rating numbers according to ISO 717-2:

$L_{n0,W}$ and $L_{n,W}$ = tested floor
$L_{n,r,0,W}$ and $L_{n,r,W}$ = reference floor

$\Delta LW = Ln,r,0,W - Ln,r,W$

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TESTED SAMPLE DESCRIPTION
System description

Solution 1		
Floor type	Single slab of reinforced concrete, thickness 140 mm	
Underlayer	Description	n.a
Insulating material	**Description**	
	Trading name	PRODESO SOUND
	Desciption	Impact sound insulation roll
	Weight kg/m^2	1,175
	Dimension of roll mm	1000 x 20000
	Total thickness mm	2,3
	Application side	Lower layer on adhesive
	Upper layer	
	Material	Spunbond
	Weight kg/m^2	0,080
	Central layer	
	Material	Polimeric mixture
	Density kg/m^3	950
	Thickness mm	1
	Lower layer	
	Material	Non-woven polypropylene fabric
	Weight kg/m^2	0,2
	Thickness mm	1
Screed	Description	n.a.
Covering type	Description	Ceramic tiles 10 mm thick
		Cement based adhesive
	Total weight kg/m^2	22,5
Dimensions mm	3400 x 3400	

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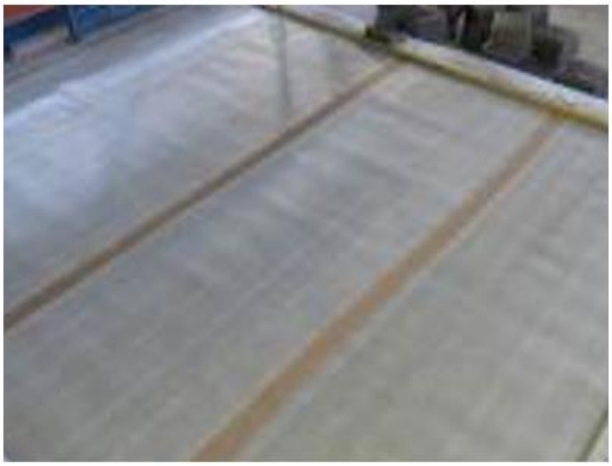
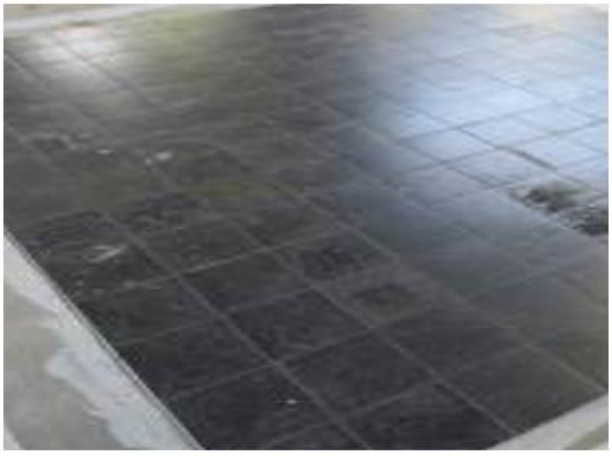
Climatic conditions during test

	Receiving	Source
Room temperature °C	**27 ± 0,5**	**26 ± 0,5**
Relative humidity %	**55 ± 5**	**56 ± 5**





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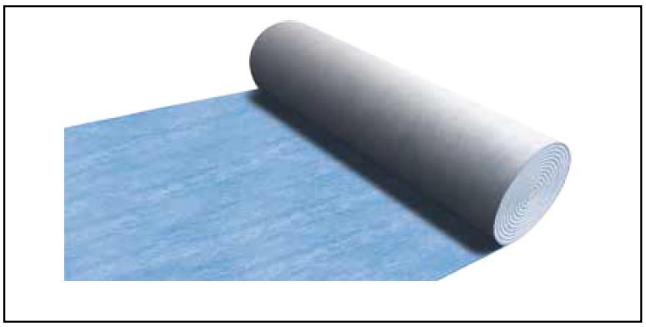
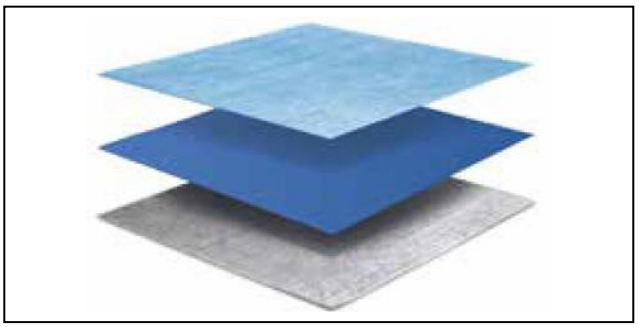
DATA SHEET





PRODESO SOUND is a membrane in high density polyethylene provided on both side with a non-woven thermo-welded polypropylene fabric that guarantees the adhesion with the adhesive.

DATI TECNICI

Appearance	Polymeric membrane	
Colour	White / Cyan blue	
Total thickness	≈ 2,3 mm	EN 1849 - 2
Roll width	≈ 1 m	
Weight	≈ 1175 g / m^2	EN 9864

PERFORMANCE HIGT – TECH

Resistance to water penetration	Classe W1	EN 13859-1
Sd	≥ 60	DIN 52615
Thermal conductivity	0,04 W/m k	
Impact sound reduction	17 dB	EN ISO 10140-3 EN ISO 717-2
Compressive stress at 10% strain	15 g/cm^2	
Crack – Bridgin Ability (sistema incollato)	≥ 1 mm	
Working temperature	- 40° C / +80° C	

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PRODESO SOUND STRATIGRAPHY

Prodeso Sound is composed of three layers:

- Upper layer (in contact with tiles): spunbond with a weight of 80 g/m^2
- Central layer: polimeric mixture with a density of 0,95 gr/cm^3 and a thickness of 1 mm
- Lower layer (in contact with support): non-woven fabric in needle punched polypropylene with a weight of 200 g/m^2

- **The product has a total weight of 1,175 kg/m^2 ± 5 % and a thickness of 2,3 mm ± 5 %**

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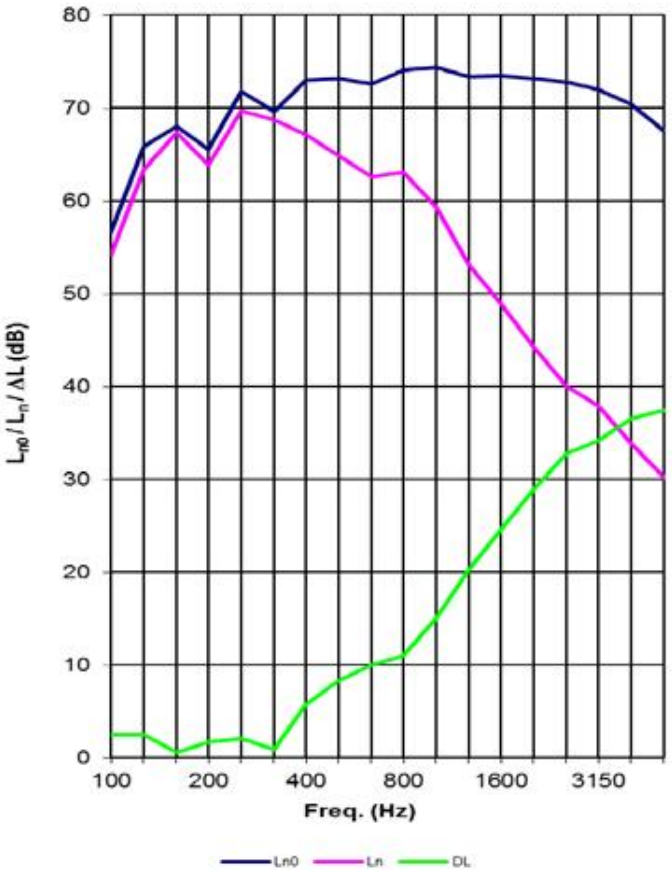
TEST RESULTS

Sample surface 11,5 m^2

Volume of receiving room 86 m^3

FREQ. (Hz)	Ln0 (B)	Ln (dB)	ΔL (dB)
100	56,7	54,2	2,5
125	65,9	63,4	2,5
160	68,0	67,4	0,6
200	65,6	63,9	1,7
250	71,8	69,7	2,1
315	69,6	68,7	0,9
400	73,0	67,2	5,8
500	73,2	64,9	8,3
630	72,6	62,6	10,0
800	74,1	63,1	11,0
1000	74,4	59,3	15,1
1250	73,4	53,1	20,3
1600	73,5	48,9	24,6
2000	73,2	44,3	28,9
2500	72,8	40,0	32,8
3150	72,0	37,9	34,1
4000	70,4	33,9	36,5
5000	67,6	30,2	37,4

$L_{n0,w}$ =	79	dB
$L_{n,w}$ =	62	dB
$L_{nr0,w}$ =	78	dB
$L_{nr,w}$ =	61	dB
ΔL_w =	17	dB
$C_{I,r,0}$ =	-11	dB
$C_{I,r}$ =	-1	dB
$C_{I,\Delta}$ =	-10	dB



DATE
20/07/2018

Building Physics Sector
G. De Napoli

B. U. Product
Ing. P. Fumagalli

Digitally signed document in accordance with Legislative Decree n. 82 dated March 7th 2005 and subsequent amendments.