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Reduction of impact sound pressure level according to PN-EN ISO 10140-3:2011

Laboratory measurements of the reduction of transmitted impact noise by floor coverings on a heavyweight standard floor

Client: **Decora S.A.**

ul. Prądzyńskiego 24 A, 63-000 Środa Wlkp.

Test specimen mounted by: **NA ITB**

Description of test facility, test specimen and test arrangement:

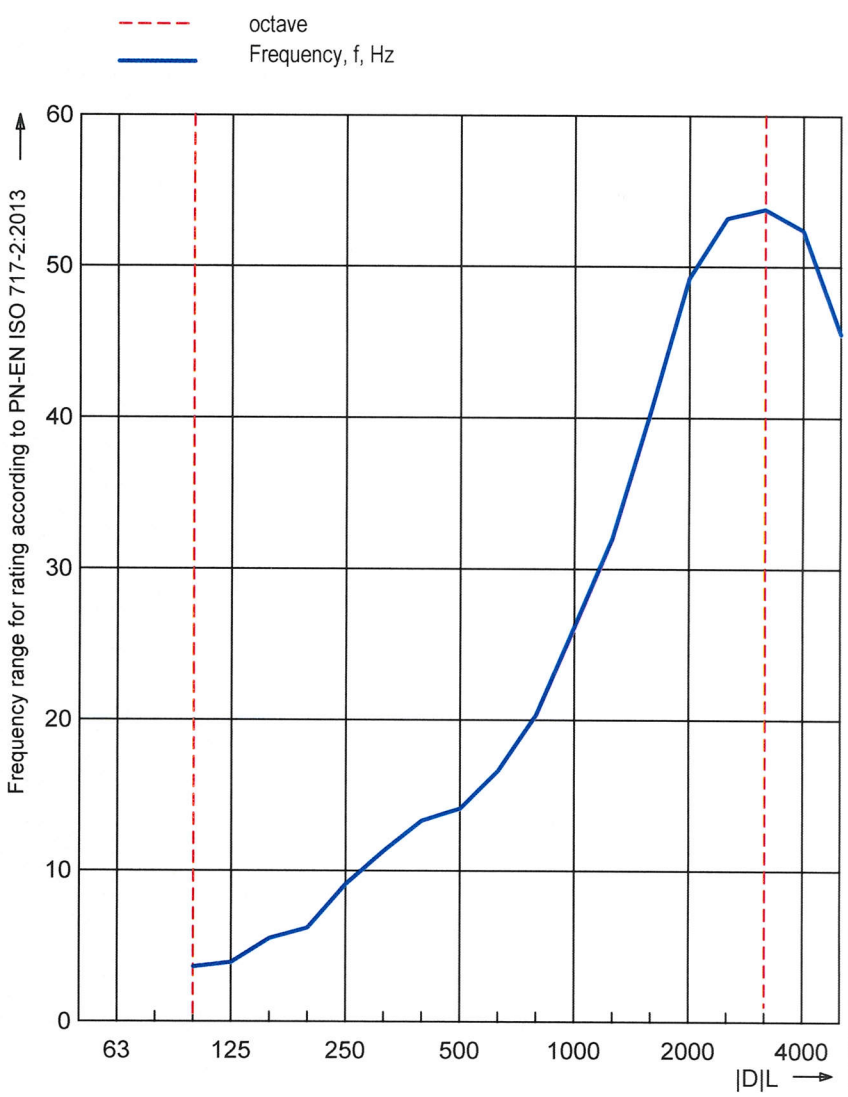
PVC CLIC 30 (total thickness 4.2mm - wearlayer 0.30mm)
Underlay XPSHD Secura LVT Click 1.5mm, density: 160 kg/m3

dLlin = 12 dB

Mass per unit area: --.- kg/m^2

Test room:	source	receive
Volume, m^3:	**79,0**	**64,0**
Air temperature, °C:	**--.-**	**20,6**
Air humidity, %:	**--.-**	**54,9**

f [Hz]	Frequency 1/3 L#n,r# [dB]		L_{n0} 1/3 L#n,r# [dB]
50	---.-	---.-	---.-
63	---.-	---.-	---.-
80	---.-	---.-	---.-
100	**59,8**	**56,2**	**3,6**
125	**61,8**	**57,9**	**3,9**
160	**65,6**	**60,1**	**5,5**
200	**69,3**	**63,1**	**6,2**
250	**69,5**	**60,4**	**9,1**
315	**65,3**	**54,0**	**11,3**
400	**67,2**	**53,9**	**13,3**
500	**68,0**	**53,9**	**14,1**
630	**69,3**	**52,7**	**16,6**
800	**70,5**	**50,2**	**20,3**
1000	**71,2**	**45,1**	**26,1**
1250	**71,2**	**39,2**	**32,0**
1600	**72,0**	**31,6**	**40,4**
2000	**72,7**	**23,5**	**49,2**
2500	**73,5**	**20,3**	**53,2**
3150	**74,4**	**20,6**	**53,8**
4000	**73,6**	**21,2**	**52,4**
5000	**71,8**	**26,3**	**45,5**



Rating according to PN-EN ISO 717-2:2013

ΔL_w = 23 dB

$C_{I,\Delta}$ = -11 dB

$L_{n,w,o}(C_{I,o})$ = 79 (-12) dB

$L_{n,w,r}(C_{I,r})$ = 53 (0) dB

Single number index and its uncertainty U_{95} determined in accordance with PN-EN ISO 12999-1:2014: ΔL_w = 23,0dB ±0,8dB

These results are based on test made with an artificial source under laboratory conditions (engineering method).

Building Research Institute Group of the Testing Laboratories
Acoustic Laboratory

Test No.: **1113.16 / 1094.16**	Date of analysis: **2016-12-20**	Signature: **Marcin Marzec**

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Reduction of impact sound pressure level according to PN-EN ISO 10140-3:2011

Laboratory measurements of the reduction of transmitted impact noise by floor coverings on a heavyweight standard floor

Client: **Decora S.A.**

ul. Prądzyńskiego 24 A, 63-000 Środa Wlkp.

Test specimen mounted by: **NA ITB**

Description of test facility, test specimen and test arrangement:

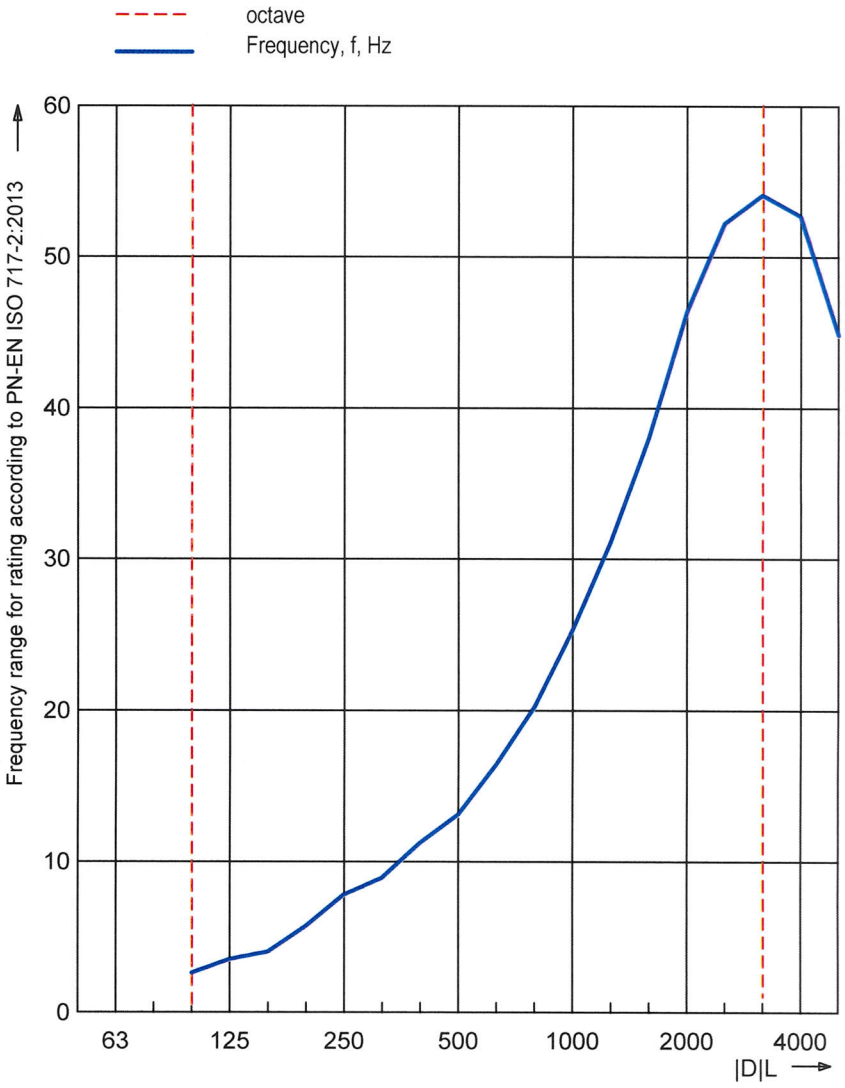
PVC CLIC 55 / 70 (total thickness 5.0mm - wearlayer 0.55/0.70mm
Underlay XPSHD Secura LVT Click 1.5mm, density: 160 kg/m3

dLlin = 10 dB

Mass per unit area: --.- kg/m^2

Test room:	source	receive
Volume, m^3:	**79,0**	**64,0**
Air temperature, °C:	**--.-**	**20,9**
Air humidity, %:	**--.-**	**56,2**

f [Hz]	Frequency 1/3 L#n,r# [dB]	Frequency 1/3 L#n,r# [dB]	L_{n0} 1/3 L#n,r# [dB]
50	---.-	---.-	---.-
63	---.-	---.-	---.-
80	---.-	---.-	---.-
100	**59,8**	**57,2**	**2,6**
125	**61,8**	**58,3**	**3,5**
160	**65,6**	**61,6**	**4,0**
200	**69,3**	**63,6**	**5,7**
250	**69,5**	**61,7**	**7,8**
315	**65,3**	**56,4**	**8,9**
400	**67,2**	**56,0**	**11,2**
500	**68,0**	**54,9**	**13,1**
630	**69,3**	**52,9**	**16,4**
800	**70,5**	**50,3**	**20,2**
1000	**71,2**	**45,9**	**25,3**
1250	**71,2**	**40,1**	**31,1**
1600	**72,0**	**34,0**	**38,0**
2000	**72,7**	**26,4**	**46,3**
2500	**73,5**	**21,3**	**52,2**
3150	**74,4**	**20,3**	**54,1**
4000	**73,6**	**20,9**	**52,7**
5000	**71,8**	**27,0**	**44,8**



Rating according to PN-EN ISO 717-2:2013

ΔL_w = **21 dB**

$C_{I,\Delta}$ = **-11 dB**

$L_{n,w,o}(C_{I,o})$ = **79 (-12) dB**

$L_{n,w,r}(C_{I,r})$ = **54 (0) dB**

Single number index and its uncertainty U_{95} determined in accordance with PN-EN ISO 12999-1:2014: ΔL_w = 21,0dB ±0,8dB

These results are based on test made with an artificial source under laboratory conditions (engineering method).

Building Research Institute Group of the Testing Laboratories
Acoustic Laboratory

Test No.: **1118.16 / 1094.16**	Date of analysis: **2016-12-21**	Signature: **Marcin Marzec**