



eco-scan bvba
 Industrieweg 114H
 B-9032 Wondelgem
 Belgium
 BTW nr.: BE 0887 763 992

www.eco-scan.be

NOISE LAB
REPORT Number ASTM-2018_ES_211-I105_43432_E

Customer : **Kinetics Middle East, LLC**
P.O. Box: 37670
Dubai
United Arab Emirates

Contacts : Client : Karim Abouseda
 Noise lab : Volker Spessart

Tests : Laboratory measurement of airborne sound insulation of building elements
Product name : **KINLAYMENT 4mm**

Reference norm :
 ASTM E 90 - 04 Standard Test Method for Laboratory Measurement of
 Airborne Sound Transmission Loss of Building Partitions and Elements

Various other related norms:
 ASTM E 413 - 10 Classification for Rating Sound Insulation

NBN EN ISO 10140-1:2010 Acoustics - Laboratory measurement of sound insulation of building elements
 - Part 1: Application rules for specific products
 NBN EN ISO 10140-4:2010 Acoustics - Laboratory measurement of sound insulation of building elements
 - Part 4: Measurement procedures and requirements
 NBN EN ISO 10140-5:2010 Acoustics - Laboratory measurement of sound insulation of building elements
 - Part 5: Requirements for test facilities and equipment

To perform the above ISO measurements, the laboratory of eco-scan is accredited by BELAC "The Belgian Accreditation Body"
BELAC is a signatory of all existing MLAs (multilateral agreements) and MRAs (multilateral recognition agreements) of EA (European co-operation for Accreditation), ILAC (International Laboratory Accreditation Cooperation) and IAF (International Accreditation Forum).
In this way, reports and certificates issued by BELAC accredited bodies are internationally accredited.

Date and reference of the request:	8-Nov-2018	2018_ES_211
Date of receipt of the specimen (s):	27-Nov-2018	SONI105
Date of tests:	28-Nov-2018	
Date of preparation of the report:	30-Nov-2018	

This test report together with its annexes contains : 7 pages and must be multiplies only in its entirety

Technical Manager,

Volker Spessart

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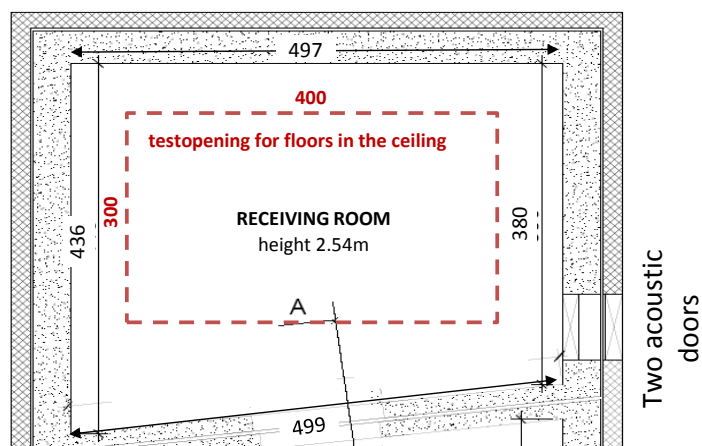
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SPECIAL MEASUREMENT CONDITIONS

Receiving Room volume < 80 m³

Sound insulation test facilities

The test rooms meet the requirements of ISO 10140-5
Both rooms are isolated for vibrations by using a so called room-in-room construction.





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STL

Sound Transmission Loss Test Data

ASTM E 90 - 04 / ASTM E 413 - 10

Client: Kinetics Middle East, LLC

Date of test: 28 November 2018

Description of the test setup:

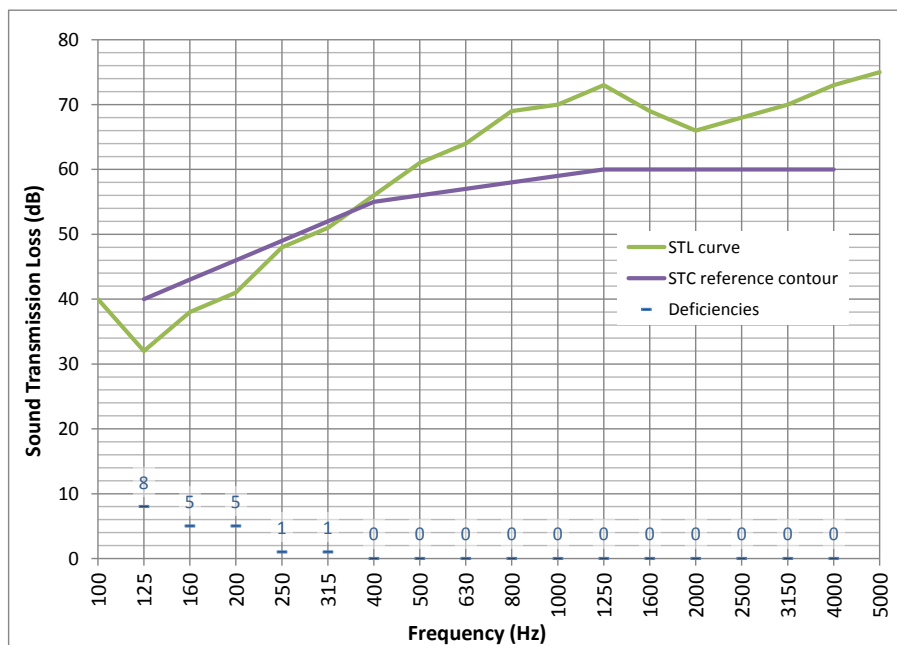
45 mm	= (1.77 inch)	prefab anhydrite screed slab
4 mm	= (0.16 inch)	KINLAYMENT 4mm
140 mm	= (5.51 inch)	heavyweight standard floor = solid reinforced concrete slab

Area S of separating element: 12.00 m² = 129.1 ft²

Receiving room volume: 51.4 m³ = 1814.9 ft³

Source room volume: 144 m³ = 5084.6 ft³

frequency Hz	STL one third octave dB
50	
63	
80	
100	40
125	32
160	38
200	41
250	48
315	51
400	56
500	61
630	64
800	69
1000	70
1250	73
1600	69
2000	66
2500	68
3150	70
4000	73
5000	75



Sound Transmission Class STC (dB): 56



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ANNEX 2: Description test items by manufacturer

The test sample description given by manufacturer is checked visually as good as possible by the laboratory.

The correspondence between the test element and the commercialized product is the sole responsibility of the manufacturer

Description of the test element as a layered structure

	Thickness (mm)	ρ (kg/m ³)	m" (kg/m ²)	m" (PSF)	Description of the layer
1	45		90	18.4	prefab anhydrite screed slab
2	4				KINLAYMENT 4mm
3	140	2300	322	65.9	heavyweight standard floor = solid reinforced concrete slab
4					
5					
6					
7					
8					
9					
10					

Total thickness = 189 mm = (7.44 inch)

KINLAYMENT 4mm

It is a floating floor underlayer product for impact and airborne sound isolation.

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ANNEX 4: photographs of the test element or the test arrangement

Description of the assembly or drawing or photo

The floating floor underlayer product was placed on the standard concrete floor.

Then a prefab anhydrite screed slab was placed on top.

The topfloor had no rigid contact with the test opening construction. Gaps between the topfloor and the test opening were filled-up with sound-absorbing material.

Additionally sandbags were placed around the perimeter edges

Remark: the sound-absorbing material and sandbags are not a part of the floating floor product.

