Intertek

Test Report

Report Number:140618003SHJ-BP-6

Sample Description:

Product: 4.5mm Ethylene/Vinyl Acctate
Model: HV-45
Samples Quantity: 15m^2
Sample ID: S140618003SHJ-001~024
Date Received: 2014-06-17
Date Test Conducted: 2014-06-18~2014-07-08

Tests Conducted:

Test Methods: ASTM E492-09, ASTM E989-06, ASTM E2179-09

Conclusion:

For details refer to attached page(s).
The conclusions of this test report may not be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

Should you have any queries about the test report, please contact:

Approved by:	**Checked by:**	**Prepared by:**
Dorian Wu	Jodie Zhou	Eric Zhu
Supervisor	Technical Supervisor	Engineer

Test Items, Method and Results:

Test Method: ASTM E492-09

Temperature: 25ºC

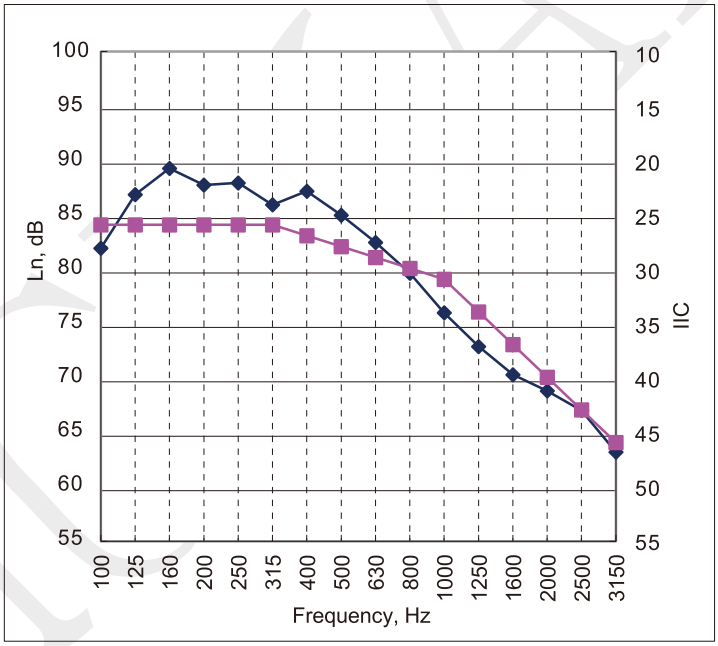
Relative Humidity: 65%

Specimen area: 12.8m^2

Volume of the receiving room: 121m^3

Floor/ceiling Assembly: The system consisted of 150mm thick concrete floor which had a 4.5 mm sound insulation pad installed on the top of it. The 12 mm flooring specimens were then placed on the top of the insulation pad.

Frequency (Hz)	L_n (dB)
100	84
125	89
160	91
200	90
250	90
315	88
400	87
500	85
630	84
800	82
1000	78
1250	75
1600	72
2000	71
2500	69
3150	65
IIC=	84



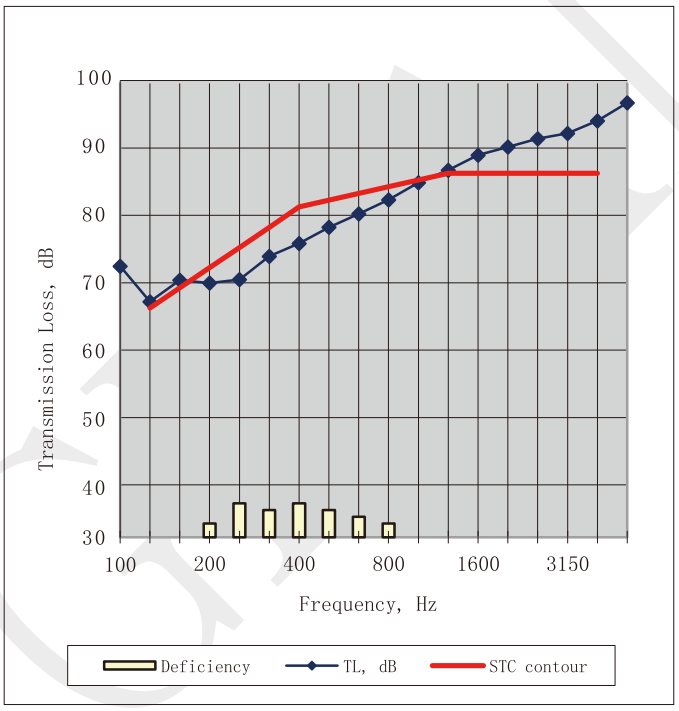
Calculated Impact Insulation Class: IIC 84

Note:

1. L_n = Normalized Sound Pressure Level for Covering over Floor/ceiling System
2. Classified IIC in accordance with ASTM E989-12, Standard Classification for Determination of Impact Insulation Class.
3. The IIC was for the whole floor/ceiling assembly system.

Test Method: ASTM E90-09
Temperature: 25ºC
Relative Humidity: 65%
Specimen area: 12.8m^2
Volume of the receiving room: 121m^3
Floor/ceiling Assembly: The system consisted of 150mm thick concrete floor which had a 4.5 mm sound insulation pad installed on the top of it. The 12 mm flooring specimens were then placed on the top of the insulation pad.

Frequency (Hz)	TL (dB)
100	74.2
125	68.9
160	70.1
200	69.7
250	70.2
315	73.7
400	75.6
500	78.0
630	80.0
800	86.1
1000	87.5
1250	88.1
1600	89.7
2000	90.1
2500	92.8
3150	93.2
4000	94.1
5000	96.7
Sound Transmission Class (STC)	86



Calculated Sound Transmission Class: STC 86

Note:

1. TL= Transmission loss, the partition was the Floor/ceiling Assembly System.
2. Classified STC in accordance with ASTM E413-10, Classification for Rating Sound Insulation.
3. The STC was for the whole floor/ceiling assembly system.