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Date: Feb. 07, 2018

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CUSTOMER NAME: LG HAUSYS LTD.

ADDRESS: 16F, ONE IFC, 10, GUKJEGEUMYUNG-RO, YEONGDEUNGPO-GU,

SEOUL, KOREA

Sample Name : LG LOOSELAY 5T

Material and Mark : PVC

Others : SGS Korea File No.: AYAA17-64015

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

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Test Required : Impact sound reduction index

Test Method : ISO 10140-1:2016 Annex H & ISO 717-2:2013

Date of Receipt : Jan. 25, 2018

Testing Start Date : Jan. 25, 2018

Testing End Date : Feb. 07, 2018

Test result(s) : For further details, please refer to the following page(s)

(Unless otherwise stated the results shown in this test report refer only to

the sample(s) tested)

Signed for

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Erin Huang

Authorized signatory





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Test item: Impact sound reduction index

#### Test Method

ISO 10140-1:2016 Acoustics - Laboratory measurement of sound insulation of building elements - Part

1: Application rules for specific products Annex H

ISO 717-2:2013 Acoustics - Rating of sound insulation in buildings and of building elements - Part 2: Impact sound insulation

### II. Sample Details

| Dimension       | 1124mm×229mm×4.5mm   |
|-----------------|----------------------|
| Surface density | 7.6kg/m <sup>2</sup> |

#### III. Test condition

| Ambient temperature    | 16.8℃  | Relative humidity         | 20.4%             |  |
|------------------------|--|---------------------------|-------------------|--|
| The source room Volume | 125m <sup>3</sup>  | The receiving room Volume | 100m <sup>3</sup> |  |
| Description of test    | Test area: 15m <sup>2</sup>                                      |                           |                   |  |
| arrangement            | The test sample was laid on the 140mm thick prefabricated floor. |                           |                   |  |

### II. Test result

Rating according to ISO 717-2:2013:

$$L_{n,w}=67dB, \ \triangle L_{w}=11dB, \ C_{l,r}=-10dB, \ C_{l,\triangle}=0dB$$

Note:  $L_{n,w}$  is the weighted normalized impact sound pressure level,  $\triangle L_w$  is the weighted reduction impact sound pressure level, based on the test performed with an artificial source under laboratory conditions (engineering method) with the specified reference floor.

 $C_{l,r}$  is the spectrum adaptation term for  $L_{n,w}$ ,  $C_{l,\triangle}$  is the spectrum adaptation term for  $\triangle L_w$ 



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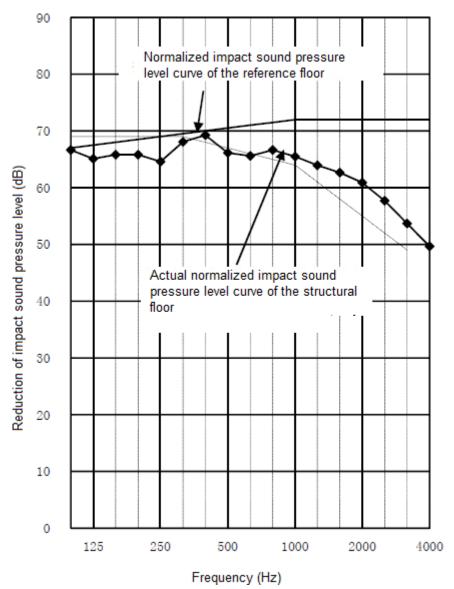


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| f    | $L_{n,r,o,w}$ | $L_{n,r,w}$ | $\Delta L$ |
|------|---------------|-------------|------------|
| Hz   | dB            | dB          | dB         |
| 100  | 67.0          | 66.6        | 0.4        |
| 125  | 67.5          | 65.1        | 2.4        |
| 160  | 68.0          | 65.8        | 2.2        |
| 200  | 68.5          | 65.8        | 2.7        |
| 250  | 69.0          | 64.6        | 4.4        |
| 315  | 69.5          | 68.1        | 1.4        |
| 400  | 70.0          | 69.3        | 0.7        |
| 500  | 70.5          | 66.1        | 4.4        |
| 630  | 71.0          | 65.6        | 5.4        |
| 800  | 71.5          | 66.7        | 4.8        |
| 1000 | 72.0          | 65.5        | 6.5        |
| 1250 | 72.0          | 63.9        | 8.1        |
| 1600 | 72.0          | 62.6        | 9.4        |
| 2000 | 72.0          | 60.9        | 11.1       |
| 2500 | 72.0          | 57.7        | 14.3       |
| 3150 | 72.0          | 53.7        | 18.3       |
| 4000 | 72.0          | 49.7        | 22.3       |
|      |               |             |            |





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## Test schematic diagram:

