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### CHANGZHOU HAICHEN PACKING MATERIAL CO., LIMITED NO.557 CHANGHE ROAD, ZHENGLU TOWN, TIANNING, CHANGHZOU, JIANGSU, CHINA

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name	: RUBBER CORK UNDERLAY
Material	: RECYCLED RUBBER & CORK CRUMB
Spec.	: 5 mm
Manufacturer	: CHANGZHOU HAICHEN PACKING MATERIAL CO., LIMITED
Sample Info.	: HC-RC55050
Test Performed	: Selected test(s) as requested by applicant
Date of Receipt	: Oct. 21, 2018
Test Period	: Nov. 11, 2018 to Dec. 08, 2018
Tost result(s)	· Place refer to the following page(c)
restresul(s)	. Flease lefel to the following page(s)
	******** To be continued*******

Signed for and on behalf of SGS-CSTC Standards Technical Services Co.,Ltd Guangzhou Branch

handle

Chandler Wu Technical Engineer



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### **Test Information:**

Sample description: See photo

### I. Test reference

- ISO 140-8:1997 Acoustics -- Measurement of sound insulation in buildings and of building elements
   -- Part 8: Laboratory measurements of the reduction of transmitted impact noise by floor coverings on a heavyweight standard floor
- ISO 717-2:1996 Acoustics Rating of Sound Insulation in Buildings and of Building Elements Part
   Impact Sound Insulation.

#### II. Sample Details

Sample Details	Thickness: about 5mm

Remark: the above details are tested by Lab.

#### III. Test condition

Ambient temperature	<b>24</b> ℃	Relative humidity	50%			
The source room Volume		The receiving room Volume	145m <sup>3</sup>			
Description of test arrangement	<ol> <li>Area of test sample is 15m<sup>2</sup>. The sample can be large angle bended</li> <li>The soundproof flooring underlay was paved on the calculated weig normalized impact sound pressure level L<sub>n,r,0,w</sub>=78dB concrete floor, the precast concrete floor thickness is 140mm.</li> <li>Testing machine is RTA840 system.</li> </ol>					

### II. Test result

Rating according to ISO 717-2:1996:

 $L_{n,r,w} \texttt{= 58dB, } \bigtriangleup L_w \texttt{= 20dB, } C_{l,r} \texttt{= 1dB, } C_{l,\bigtriangleup} \texttt{= -11dB}$ 

\*\*\*\*\*\*\*\* To be continued\*\*\*\*\*\*\*



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\*\*\*\*\*\*\*\* To be continued\*\*\*\*\*\*\*



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#### Impact sound pressure level diagram:

						Single value			
						evaluation results	adverse		
f(Hz)	$L_{n,0}(dB)$	$L_{n,1}(dB)$	$\Delta L(dB)$	$L_{n,r,0}(dB)$	$L_{n,r}(dB)$	for 58dB reference	deviation		
	,					value of the	(dB)		
						crash(dB)			
100	65.1	60.1	5.0	67.0	62.0	60.0	2.0		
125	64.0	63.0	1.0	67.5	66.5	60.0	6.5		
160	67.9	67.2	0.7	68.0	67.3	60.0	7.3		
200	69.0	69.2	-0.2	68.5	68.7	60.0	8.7		
250	72.4	66.5	5.9	69.0	63.1	60.0	3.1		
315	76.2	65.5	10.7	69.5	58.8	60.0	<0		
400	74.2	59.8	14.5	70.0	55.5	59.0	<0		
500	75.7	53.5	22.2	70.5	48.3	58.0	<0		
630	75.2	43.2	32.0	71.0	39.0	57.0	<0		
800	75.4	39.6	35.8	71.0	35.2	56.0	<0		
1000	75.6	36.2	39.4	72.0	32.6	55.0	<0		
1250	75.0	25.7	49.3	72.0	22.7	52.0	<0		
1600	75.0	22.0	53.0	72.0	19.0	49.0	<0		
2000	73.8	16.6	57.2	72.0	14.8	46.0	<0		
2500	73.1	14.3	58.9	72.0	13.1	43.0	<0		
3150	72.4	13.9	58.6	72.0	13.4	40.0	<0		

Total of adverse deviation = 27.7<32.0 dB

Ln, r,w =57dB

\*\*\*\*\*\*\*\* To be continued\*\*\*\*\*\*\*

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### Test schematic diagram:



- Note: 1. L<sub>n,r,w</sub> is the weighted standardized impact sound pressure level, △ L<sub>w</sub> is the weighted improvement of impact sound insulation, characterization of Laboratory artificial sound source (standard impinger) measured under conditions standard values:
  - 2.  $C_{l,r}$  is the  $L_{n,w}$  spectrum adaptation term,  $C_{l,\triangle}$  is the spectrum adaptation term for  $\triangle L_w$ . In the case of characterization of impact of the actual sound source, the spectrum adaptation term should be corrected;
  - 3. The above test was carried out by an external laboratory assessed as competent.



\*\*\* End of report \*\*\*\*\*\*\*



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