

<b>TEST REPORT</b>										
<b>Report Reference No.</b>	: 6055395.51QS									
Tested by (name + signature)	: Jiawei Chen <i>Jiawei Chen</i>									
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Contents / enclosures	: N/A									
<b>Testing Laboratory</b>	: DEKRA Testing and Certification (Shanghai) Ltd.									
Testing location / address	: 3F., #250 Jiangchangan Road, Building 16 Headquarter Economy Park, Shibei Hi-Tech Park, Zhabei District Shanghai 200436, CHINA									
<b>Applicant</b>	: LEE YEONG INDUSTRIAL CO., Ltd.									
Address	: No.2, Kejia Rd. Douliu City 64057 YUNLIN COUNTY TAIWAN									
<b>Test specification:</b>										
Standards	: EN 60745-1:2009+A11:2010, EN 60745-2-3:2011									
Test procedure	: <table style="display: inline-table; vertical-align: top;"> <tr> <td><input type="checkbox"/> Basic safety test</td> <td><input type="checkbox"/> Screen test</td> <td><input type="checkbox"/> Quick scan</td> </tr> <tr> <td><input type="checkbox"/> Basic EMC test</td> <td><input type="checkbox"/> Flash test</td> <td><input type="checkbox"/> IP 54</td> </tr> <tr> <td><input checked="" type="checkbox"/> Noise test</td> <td><input checked="" type="checkbox"/> Vibration test</td> <td></td> </tr> </table>	<input type="checkbox"/> Basic safety test	<input type="checkbox"/> Screen test	<input type="checkbox"/> Quick scan	<input type="checkbox"/> Basic EMC test	<input type="checkbox"/> Flash test	<input type="checkbox"/> IP 54	<input checked="" type="checkbox"/> Noise test	<input checked="" type="checkbox"/> Vibration test	
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<b>Test object description</b>	: Dry wall sander									
Trade Mark	: AGP									
Manufacturer	: LEE YEONG INDUSTRIAL CO., Ltd.									
Address	: No.2, Kejia Rd. Douliu City 64057 YUNLIN COUNTY TAIWAN									
Model/Type reference	: SB9									
Ratings	: 100-240 Vac, 400W									
<b>Number of test objects</b>	: 1 pc for noise and vibration measurement									
<b>Conclusion:</b>										
- The following noise and vibration values (minimum) shall be declared on instruction manual:										
<b>Declared dual-number noise emission values in accordance with ISO 4871</b>										
Measured A-weighted sound power level, $L_{WA}$ (ref.1pW),in decibels	<b>88,5 dB(A)</b>									
Uncertainty, $K_{WA}$ ,in decibels	<b>3 dB(A)</b>									
Measured A-weighted emission sound pressure level at the work station, $L_{pA}$ (ref.20μPa),in decibels	<b>77,5 dB(A)</b>									
Uncertainty, $K_{pA}$ ,in decibels	<b>3 dB(A)</b>									
Values determined according to noise test code given in EN 60745-1:2009+A11:2010, using the basic standards EN 60745-2-3:2011.										
NOTE - The sum of a measured noise emission value and its associated uncertainty represents an upper boundary of the range of values which is likely to occur in measurements.										
<b>Vibration total values (triaxial vector sum) determined according to EN60745</b>										
	the work mode description "Disc sanding"									
Vibration emission Value $a_h$	<b>3,3 m/s<sup>2</sup></b>									
Uncertainty $K$	<b>1,5 m/s<sup>2</sup></b>									

**Summary of testing:**

**Location of testing and Environmental condition:**

Location:	Noise lab of DEKRA Testing and Certification (Shanghai) Ltd.
Background noise:	25,5 dB(A)
Dimension:	3,95m*2,8m*2,4m
Air temperature:	25°C
Relative humidity:	50%
Barometric pressure:	101,1kPa
Wind velocity:	0m/s

**Test equipment list:**

Equipment	Type	Serial number	Manufacturer	Calibration due date
Microphone	4189	3148398	Brüel & Kjær	2021/03/24
Pulse	3050-A-060	3050-112020	Brüel & Kjær	2021/04/07
Calibrator	4231	3022391	Brüel & Kjær	2021/03/18
Accelerometer	4535B001	32675	Brüel & Kjær	2021/03/22
Accelerometer	4535B001	32674	Brüel & Kjær	2021/03/22

**Part 1 Noise test**

**1.1 Test standards**

EN 60745-1:2009+A11:2010, EN 60745-2-3:2011

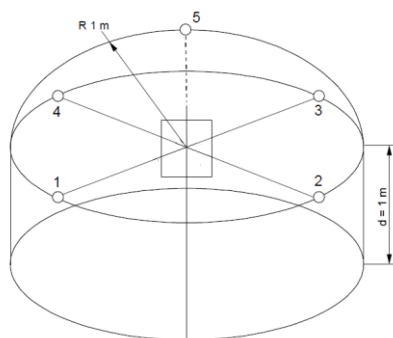
**1.2 Description of the hand-held tool**

Product: Dry wall sander  
 Model: SB9  
 Technical data: 100-240 Vac, 400W

**1.3 Description of mounting and operation conditions**

Mounting: The dry wall sander was suspended and hold horizontally.  
 Operating conditions: No load/max.speed

**1.4 Microphone positions:**



**1.5 Measurement data**

cycle \ point	1	2	3	4	5
1	77,4	78,2	77,6	76,3	77,5
2	77,3	78,1	77,7	76,2	77,4
3	77,6	78,0	77,7	76,6	77,4

**1.6 Test result**

**1.6.1 Sound power level Determination**

A-weighted time-average 1 meter surface sound pressure level:

$$\overline{L_{pAi,1m}} = 10lg \left[ \frac{1}{5} \sum_{i=1}^5 10^{0,1L'_{pA,i}} \right] - K_{1A} - K_{2A}$$

A-weighted sound power level:  $L_{WA} = \overline{L_{pAi,1m}} + 10lg \frac{S}{S_0}$

Where:

$K_{1A} = 0dB(A)$ ;

$K_{2A} = 0dB(A)$ ;

$10lg \frac{S}{S_0} = 11dB(A)$ .

cycle	$\overline{L_{pAi,1m}}$	$L_{W Ai}$
1	77,4	88,4
2	77,4	88,4
3	77,5	88,5

**sound power level:**  $L_{WA} = \frac{1}{3} \sum_{i=1}^3 L_{W Ai} = 88,4dB(A)$

**1.6.2 Emission sound pressure level Determination**

A-weighted Emission sound pressure level at the work station:  $L_{pA} = L_{WA} - Q$

Where:

$Q = 11 dB(A)$ .

**Emission sound pressure level at the work station:**  $L_{pA} = L_{WA} - Q = 88,4 - 11 = 77,4dB(A)$

**Part 2 Vibration test**

**2.1 Test standards**

EN 60745-1:2009+A11:2010, EN 60745-2-3:2011

**2.2 Description of the hand-held tool**

Product: Dry wall sander

Model: SB9

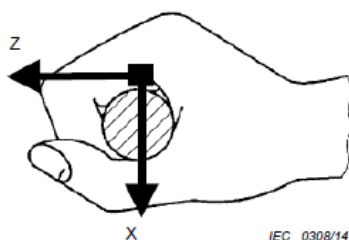
Technical data: 100-240 Vac, 400W

**2.3 Description of operating and testing conditions**

Testing conditions: Sanding the steel plate

Feed force: 50N±5N

**2.4 Measurement direction**



**2.5 Measurement data**

**Main handle:**

<b>Operator A</b>				
Direction No.	$a_{hwx}$	$a_{hwy}$	$a_{hwz}$	The vibration total value
1	3,081	0,453	1,293	3,372
2	3,590	0,460	0,954	3,743
3	3,040	0,537	1,058	3,263
4	3,469	0,596	1,099	3,688
5	3,008	0,597	1,226	3,302
the arithmetic mean total vibration				3,474

<b>Operator B</b>				
Direction No.	$a_{hwx}$	$a_{hwy}$	$a_{hwz}$	The vibration total value
1	2,623	0,611	1,170	2,936
2	3,221	0,452	1,259	3,487
3	2,795	0,552	0,992	3,017
4	3,167	0,603	1,161	3,426
5	2,991	0,538	1,046	3,214
the arithmetic mean total vibration				3,216

<b>Operator C</b>				
Direction No.	$a_{hwx}$	$a_{hwy}$	$a_{hwz}$	The vibration total value
1	2,986	0,483	1,184	3,248
2	2,600	0,490	1,151	2,885
3	2,772	0,604	0,978	3,001
4	3,004	0,553	1,085	3,241
5	2,650	0,523	1,260	2,980
the arithmetic mean total vibration				3,071

**Auxiliary handle:**

<b>Operator A</b>				
Direction No.	$a_{hwx}$	$a_{hwy}$	$a_{hwz}$	The vibration total value
1	3,121	0,780	0,739	3,301
2	3,094	0,827	0,851	3,314
3	3,198	0,794	0,677	3,364
4	3,223	0,729	0,766	3,392
5	3,022	0,826	0,879	3,254
the arithmetic mean total vibration				3,325

Operator B				
Direction No.	$a_{hwx}$	$a_{hwy}$	$a_{hwz}$	The vibration total value
1	3,420	0,675	0,664	3,549
2	2,730	0,758	0,691	2,916
3	2,765	0,660	0,771	2,946
4	2,886	0,652	0,662	3,032
5	3,463	0,758	0,676	3,609
the arithmetic mean total vibration				3,210

Operator C				
Direction No.	$a_{hwx}$	$a_{hwy}$	$a_{hwz}$	The vibration total value
1	2,970	0,849	0,878	3,211
2	3,448	0,706	0,884	3,629
3	2,937	0,834	0,867	3,173
4	2,949	0,787	0,838	3,165
5	2,964	0,769	0,720	3,146
the arithmetic mean total vibration				3,265

## 2.6 Test result

### Main handle:

The average vibration total value  $a_{n,DS}$ : 3,254  $m/s^2$

$K = 1,65s_R = 0,204m/s^2$  or  $K = 1,5m/s^2$  , *Whatever is higher.*

### Auxiliary handle:

The average vibration total value  $a_{n,DS}$ : 3,267  $m/s^2$

$K = 1,65s_R = 0,057m/s^2$  or  $K = 1,5m/s^2$  , *Whatever is higher.*

**The test results shown in this report relate only to the tests performed according to the test program. The test object has not been submitted to a full test program.**

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