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| CUSTOMER NAME: | NANJING GUHUA METALWORK CO., LTD. |
|----------------|---|
| ADDRESS: | XIONGZHOU INDUSTRIAL PARK, LUHE DISTRICT, NANJING, P. R |
| | CHINA |

| : | RINGLOCK STEEL PLANK |
|---|-----------------------------------|
| : | 3.072M×0.32M |
| : | NANJING GUHUA METALWORK CO., LTD. |
| : | Q235 |
| | :: |

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.

| | | ***** |
|--------------------|---|---|
| Test Required | : | Drop test |
| Test Method | : | EN 12810-2:2003 Annex B |
| SGS Ref. No. | : | NJIN1709003931ML |
| Date of Receipt | : | Sep. 26, 2017 |
| Testing Start Date | : | Sep. 26, 2017 |
| Testing End Date | | Oct. 09, 2017 |
| 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.

Joyce Li Authorized signatory



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Summary of Result(s):

| No. | Test Item | Test Method | Result | Conclusion |
|-----|-----------|-------------------------|-------------------------------------|------------|
| 1 | Drop test | EN 12810-2:2003 Annex B | The ball can be retained after test | Pass |

Note: Pass: Meet the requirements;

Fail: Does not meet the requirements;

/: Not Apply to the judgment.

Original Sample Photo(s):





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1. Test item: Drop test

Test method: EN 12810-2:2003 Annex B

Test condition:

Platform unit size: 3070mm×320mm (Length × Width)

Frame size: 3070mm×1400mm (Length × Width)

Drop height: 2.5m

Steel ball: Φ50mm, 100kg

1.1 Damping pillow stiffness characteristics test:

Dimensions of damping pillow: 500mm×500mm×250mm (Length × Width × Thickness) Material: Foam

Diagram of test



1-ball, 2-damping pillow

Apply a compression load via the steel ball to the damping pillow till the displacement up to 80mm, check whether the displacement-load curve meet the permitted curve below or not.



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The test curve above shows that the foam meet the requirement of permitted curve in EN 12810-2:2003.

1.2 Test procedure

Test arrangement

The steel plank units, their supports and the adjacent vertical components shall be set up in conformity with the instruction manual. Side protection components shall be set up on all four sides to prevent the ball from rolling off the platform.

Test procedure:

Release the ball of 100kg from the specified height 2.5m to impact at the locations as shown in the following figure according to the client's requirement through a damping pillow. The ball's diameter is 500mm and the damping pillow's size is 500mm×500mm×250mm (Length × Width × Thickness). After release the ball, check the sample for any signs of damage and measure the maximum deflection, make sure whether the deck can retain the ball or not.



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Test result:

| Sample No. | Test Location | Deflection after test (mm) | Visual check | Requirement | Conclusion |
|---------------|------------------|----------------------------------|-------------------------------------|--|------------|
| 1 | PM1 | 72 | The ball can be retained after test | st For a st For a successful test, the test st st | Pass |
| | PS1 | 46 | The ball can be retained after test | | Pass |
| | PM2 | 89 | The ball can be retained after test | | Pass |
| | PS2 | 56 | The ball can be retained after test | | Pass |
| | PM1 | 61 | The ball can be retained after test | | Pass |
| 2 | PS1 | 27 | The ball can be retained after test | | Pass |
| | PM2 | 91 | The ball can be retained after test | | Pass |
| | PS2 | 25 | The ball can be retained after test | | Pass |
| 3 | PM1 | 61 | The ball can be retained after test | | Pass |
| | PS1 | 39 | The ball can be retained after test | | Pass |
| | PM2 | 88 | The ball can be retained after test | | Pass |
| | PS2 | 24 | The ball can be retained after test | | Pass |



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Test photos:





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



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