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• Our details

Report no.: 61/60336309/ 1 11 420r - resumé

Contract ref.: 2098340

• Your details

Ref.: Your mail 07/11

• Intervention data

Place: labo AIB-Vinçotte International laboratory

Date: October november 2011

Performed by: Roland Gregoire, Marc Mathieu

Jomy s.a.
Rue Bourgogne 20
B-4452 Juprelle (Wihogne)

TESTS ON A RETRACTABLE LADDER JOMY.

1. Purpose of our examination

As requested by your departments, we carried out:

1. the tests and examinations as stipulated in the NBN EN 131-2, NBN EN 131-4 and NEN2484 standards on one part of the Jomy retractable ladder.
2. a (static) buckling test up to 5T on one part of a Jomy retractable ladder.

2. Conclusion

The retractable ladder is conform with points 4.2.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7 and 5.15 of the standard EN 131-2.
The retractable ladder is conform with point 6.2.3 of the standard EN 131-4.
The retractable ladder is conform with points 7.2.2.2., 7.6.2.3, 7.6.2.1 et 7.6.2.4 of the standard NEN2484
The result of the static test on a beam is satisfactory. There was no permanent buckling of the beam after the test.

3. Notes

- 3.1. This report is a resumé of report 61/60336309/ 1 11 420r – rev3, in which you find the details of these tests.
- 3.2 This report cannot be copied, unless in full, without permission from AVI.
- 3.3 The test results relate only to those items tested.
- 3.4 This report is a translation. In case of any difference the wording of the French original report and annexes prevails

Marc Mathieu

Date: 07/11/2011
Number of pages: 2
Appendix:
Distribution: or.
cc.

For the Director



3. Results

| <u>Description</u> | <u>Measured</u> | <u>Permitted</u> | <u>Conclusion</u> |
|--|-----------------|------------------|-------------------|
| Verification of conformity with point 4.2.1 (standard EN131-2) | | | OK |
| Strength test of stiles (5.2 - EN131-2:2010) | 1 mm | 2.22 mm | OK |
| | 1 mm | 2.22 mm | OK |
| Bending test of the stiles (5.3 - EN131-2:2010) | 4 mm | 29.96 mm | OK |
| | 7 mm | 29.96 mm | OK |
| Lateral deflection test of the ladder (5.4 - EN131-2:2010) | 3 mm | 12.24 mm | OK |
| | 2.5 mm | 12.24 mm | OK |
| Bottom stile ends test (5.5 - EN131-2:2010) | 2 mm | 2 mm | OK |
| | 2 mm | 2 mm | OK |
| Vertical load on rungs, steps and platforms (5.6 - EN131-2:2010) | 0 mm | 3 mm | OK |
| Torsion test of rungs and steps (5.7 - EN131-2:2010) | 0.6 mm | 1 mm | OK |
| Torsion on ladder length (5.15 - EN131-2:2010) | 11.8° | 18° | OK |
| | 12° | 18° | OK |
| Fatigue test of hinge joint (cyclic tests of the hinges EN131-4 6.2.3) | | | OK |
| Deflection test with asymmetrical load (NEN 2484 - 7.2.2.2) | 0.3° | 2° | OK |
| | 0.1° | 2° | OK |
| Fatigue test 10.000 cycles (NEN 2484-7.6.2.3) | | | OK |
| Rung attachment test on sliding (NEN 2484-7.6.2.1) | | | OK |
| Tensile test of strungs (NEN 2484 - 7.6.2.4) | | | OK |

Results of the buckling test

| Loads in kg | Deformations in mm (longitudinal) | Deformations in mm (lateral) |
|-------------|--------------------------------------|---------------------------------|
| 0 | 0 | 0 |
| 1000 | 1 | 0 |
| 2000 | 1 | 1 |
| 3000 | 2 | 1 |
| 4000 | 3 | 1 |
| 5000 | 4 | 2 |
| 0 | 0 | 0 |
| 6000 | 5 | 4 |
| 0 | 0 | 0 |