



Bureau Veritas Consumer Products Services UK Ltd

TEST REPORT

REPORT REF: TR5018/218238 **SAMPLE RECEIVED:** 01 October 2018
REPORT ISSUED: 17 October 2018

SAMPLE DESCRIPTION: Entrance Matting – Romus Quick Mat
Vendor / Manufacturer: Romus
Item No. Scrapex

ORDER No: SB54529LJO

On behalf of Romus

APPLICANT: Springbank, Brunel Way, Lyme Green Business Park, Macclesfield, SK11 0TA,
United Kingdom

FAO: Ciaran Duffy

REPORT SUMMARY:

Wheeled Traffic Trolley Test conducted on behalf of Romus

Accelerated wear test of 50,000 cycles (100,000 passes), using an HD cage with a total mass of 400 kg, as requested by the client and detailed in this test report.

CONCLUSION: Our findings are detailed in the following test report.

Signature

Chris Hart – Hardlines Manager
AUTHORISED SIGNATORY

Where the results of a test fall close to the requirement, either above or below, compliance could be affected by the uncertainty of measurement of the test. The test lab will state the UoM of the test and the requirements and contact the client if the UoM affects the final pass/fail rating.

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SAMPLE IMAGE:





SUMMARY OF EXAMINATION:

Introduction:

The client submitted a mat for testing. The dimensions of the mat were 800 mm length and 900 mm width. The mat was secured to a plywood board of sufficient size. The test method and our findings were as follows:

Methodology:

An HD cage, rated for 1 tonne, loaded to a total mass of 400 kg, was placed on the test board at the front end with its front wheels positioned on the mat adjacent to the ramp, ready to be rolled up and onto the mat with the rear wheels behind the rear ramp. The cage was then attached to a pneumatic cylinder and allowed to cycle back and forth through a distance of 600 mm, allowing the front wheels to pass forwards and along the entrance mat, before returning back to the start position. The front wheels were always located on the mat. This constituted one test cycle (or two test passes). Whilst cycling, the cage was mechanically restrained from sideward movement to ensure the wheels passed over the entrance mat at the same point every time.

The diameter of each front wheel was 120 mm. The width of each wheel was 35 mm and the length of the wheel in contact with the ground was approximately 35 mm, giving an approximate contact surface area of 1,225 mm².

The trolley travelled at a speed of approximately 0.8 km/h.

Results and Observations:

The mat was inspected daily and no serious defects were noted in the construction of the mat.

After 15,000 cycles, or 30,000 passes, the mat was inspected and it was noted that there was some compression of the pile. There was no structural damage to the mat.

After 50,000 cycles or 100,000 passes, the mat was inspected and it was noted that there was some further compression of the pile. There was no structural damage to the mat. See figure 1 below.



Figure 1