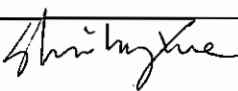



Technical Report		Page 1 of 4
Testing Laboratory		
Product Safety		
Test Report No.	TRHWP0912038/01	
Applicant:	Lifetime Trading Ltd. Room 4604, CITIC Plaza, 233 Tianhe North Road 510613 Guangzhou China	
Test Item:	Caster	
Type Designation	1181-200	
Incoming No.:	N/A.	Date of receipt : 18.01.2010
Testing Location	TÜV Nord Shanghai	
Test Standard:	DIN EN 1004:2005 cl. 7.5.2, and cl.7.5.3	
Test Result:	Refer to the following pages	
Shirlylly Xue	Signature: 	Date: 21.01.2010
Linda Yang	Signature: 	Date: 21.01.2010
Remark notes:		
Abbreviations: OK/P = passed, Fail/F = Failed, N/A/ N = Not Applicable, N/T=Not tested		
The duplication of this Technical Report or parts of it and its use for advertising purposes is only allowed with permission of the Testing Laboratory. This Technical Report contains the result of the examination of the product sample submitted by the manufacturer. A general statement concerning the quality of the products from the series production cannot be derived there from. This test report relates to the a. m. test sample. Without permission of the test Laboratory this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products		

Product picture



Type: 1181-200

Overall dimension: 635x290x105 (mm)

Diameter of wheel: Ø200 mm

Net weight: 6.0 kg

DIN EN1004:2005-03			
Clause	Requirement – Test	Result – Remark	Verdict
7.5.2	Brakes	See below.	P
	<p>All castors shall have wheel brakes. They shall have swivel brakes unless by their design they are not eccentric when locked.</p> <p>The brake mechanism shall be designed in such a way that it can only be unlocked by a deliberate action. The brake mechanism shall effectively prevent any rotation of the wheel when a horizontal force of 0,30 kN is applied through the vertical swivel axis of the castor as close as possible above the castor housing and in the rolling direction of the castor. The full value of the specified service load per castor wheel is to be applied when testing the castor brakes. A minimum of five control tests shall be carried out.</p>	<p>Service load per castor wheel: 5kN</p> <p>Test was carried out as requested.</p> <p>Under horizontal force of 0.3kN, the wheel did not rotate.</p>	P
7.5.3	Test loads	See below.	P
	<p>The vertical service load per wheel given by the manufacturer of the MAT (Mobile Access Tower) shall be verified by a minimum of 5 tests.</p> <p>The test load shall be three times the service load per castor wheel derived from the most unfavourable load combination from Table 4.</p> <p>When the brakes are locked, an initial vertical load of 0,50 kN shall be applied. The plate of the fork shall be taken as the origin for measurements of vertical displacement d_c and the residual deformation d_r.</p> <p>The load shall be increased to the maximum test load, maintained for one minute and the vertical deformation d_c shall be measured. The load shall be returned to 0,50 kN. After 30 min. the residual deformation d_r shall be measured.</p> <p>The test shall meet both of the following requirements: -residual deformation d_r after 30 min shall not be more than 1,5 mm; -total deformation d_c shall not be more than 15mm The service load is verified if all five tests meet the test requirements.</p>	<p>Service load of 5kN was verified no failure.</p> <p>Test load: 15kN</p> <p>Test results as follows: Sample 1: $d_r = 0.3 \text{ mm} < 1.5 \text{ mm}$ $d_c = 1.4 \text{ mm} < 15 \text{ mm}$ Sample 2: $d_r = 0.9 \text{ mm} < 1.5 \text{ mm}$ $d_c = 1.9 \text{ mm} < 15 \text{ mm}$</p>	P

DIN EN1004:2005-03

Clause	Requirement – Test	Result – Remark	Verdict
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Table 4 — Service loads on the whole structure

Group	Line	Kind of load	Value of loads	Subclause
1		Self-weight including ballast if applicable	as given	8.2.1.1
2	2.1	Vertical service load on the topmost platform		8.2.1.2
	2.1.1	Uniformly distributed load for class 2	1,5 kN/m ²	
	2.1.2	for class 3	2,0 kN/m ²	
	2.2	minimum service load on structure	5,0 kN/4 legs	8.2.1.4
3		Horizontal service load on the topmost platform		8.2.2.1
	3.1	$L \leq 4,0 \text{ m}^a$	0,3 kN	
	3.2	$L > 4,0 \text{ m}^a$	2 x 0,3 kN	
4		Horizontal design loads to simulate wind		8.2.2.2
5		Loads resulting from an inclined position of 1 %		8.2.1.3

^a L = length of the platform.

END OF REPORT