EFBE PRÜFTECHNIK

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EFBE Date of Order: 2013-01-08
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Testreport

Maximum load + Overload test
Bicycle handlebar + stem
Test item no. 134152

Test sample data

	handlebar		stem
Manufacturer	Lagear		Lagear
Model name	HB-MBR 780/35		LB 35 A
Identity no.	No		No
weight (g)	268		194
Suspension		No	
Coating	Yes		Yes
Width / clamping width (mm)	780 / 680		
Clamping torque (Nm)	6		6
Clamping diameter (mm)	34,9		28,6
Length stem (mm)			100
Remarks	None		

Test description (LÜF_R)

Max./Overload test handlebar/stem EFBE right (LÜF_R)

The **test arrangement** is corresponding to EN 14766, clause 4.7.6.2. Load input is 50 mm from the right bar end parallel to the handlebar stem. The pneumatically applied test force is detected by the cylinder pressure with a precision pressure gauge. The measurement deviation is ±3 percent and the duration of force application is 10 s for maximum load and 1 second for overload.The permanent deformation is measured at the load input point in direction of the load.

EFBe-recommendations are:

A Maximum load test		**B Overload test**	
Load 1:	1 100 N	Load 2:	1 500 N
max. perm. deformation:	10 mm	Fracture behavior:	no brittle fracture
Fracture behavior:	no crack / fracture		

Test result:

A Maximum load test:		**B Overload test:**	
Test load 1:	1 100 N	Test load 2:	1 500 N
Permanent deformation:	2.7 mm	Crack/fracture/deform.:	Yes
Crack or fracture:	No	Brittle fracture:	No

The Maximum load test was passed. **The Overload test was passed.**

Remarks: For preceeded tests please see testreport No. P1306487, P1306488.

Test engineer: i.A. V. Stobberg
End of testing: 2013-01-17 Waltrop 2013-01-21 .....
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