

Declaration of manufacturer Mechanical gears

Series	421F8.. AB-L with end stop
Test Lab / Client	Gerhard Geiger GmbH & Co. KG, Schleifmühle 6, 74321 Bietigheim-Bissingen, Germany
Standard	DIN EN 14203 (D) July 2004, Blinds and shutters – Capability for use of gears with crank handle – Requirements and test methods

Test data

Family of products	Rolling shutters (EN 13659) / Markisen (EN 13651)		
Gear type	Worm gear	Reduction ratio i	8:1
Torque M_s [Nm]	16	Efficiency η (M_s)	0,39

Test results

Forced operation test carried out			
Test effort P_F [N]	60 (10,80 Nm) (Working radius 0,18 m)		
Cycles	50	Passed	YES
Number of achieved cycles	10.000 (endurance class 3)		

This gear series is in conformity with the requirements of the directive DIN EN 14203 dated July 2004

Divergence from the norm:

Due to the strong thermal load at the test rig, the outflow of tiny amounts of lubricants is unavoidable.



Bietigheim-Bissingen, 27.04.2015

Hans-Michael Dangel (General Management)