

Declaration of manufacturer Mechanical Gears

Series	421F5
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 shutter/awnii	rolling shutter/awning (13659/13651)		
Gear type	worm gear	Reduction ratio i	5,33:1	
Torque M _S [Nm]	7,5	Efficiency η (M _S)	0,39	

Test results

Forced operation test	carried		
Test effort P _F [N]	60 (10,8 Nm) (Working radius 0,18m)		
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, 03.07.2014

Hans Michael Dangel (General Management)