

Declaration of manufacturer Mechanical Gears

Series	421F8	
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/awnin	rolling shutter/awning (13659/13651)		
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		
Test effort P _F [N]	60 (10,8 Nm) (Working radius 0,18m)		
Cycles	50	Passed	Yes

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.

Hans Michael Dangel (General Management)

Bietigheim-Bissingen, 03.07.2014