

## Declaration of manufacturer Mechanical Gears

Series	421F8mit AB-L
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)		
Gear type	worm gear	Reduction ratio i	8:1
Torque M <sub>S</sub> [Nm]	16	Efficiency η (M <sub>s</sub> )	0,39

## Test results

Forced operation test	carried		
Test effort P <sub>F</sub> [N]	<b>60 (10,8 Nm)</b> (Working radius 0,18m)		
Cycles	50	Passed	Yes

Number of achieved cycles	10.000 (endurance class 3)
Transmitted on distinction by the	,

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)

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