

National Legislative update EAGOSH, May 2009

DIN 51131

Testing of Floor coverings

Determination of the anti-slip property

Method for measurement of the sliding friction coefficient

In effect as of August 2008

National Legislative update EAGOSH, May 2009

DIN 51131

Scope

This document prescribes the parameters for the measurement of the coefficient of sliding friction μ for surfaces usually walked on with footwear.

It is applicable for the measurement of floor coverings with or without displacement of up to 4cm³/dm² and textile floor coverings.

The measurement can be done on dry and wet floor surfaces or on floor surfaces with defined slip agent as well as in operating state

National Legislative update EAGOSH, May 2009

DIN 51131

Short description of the process / method

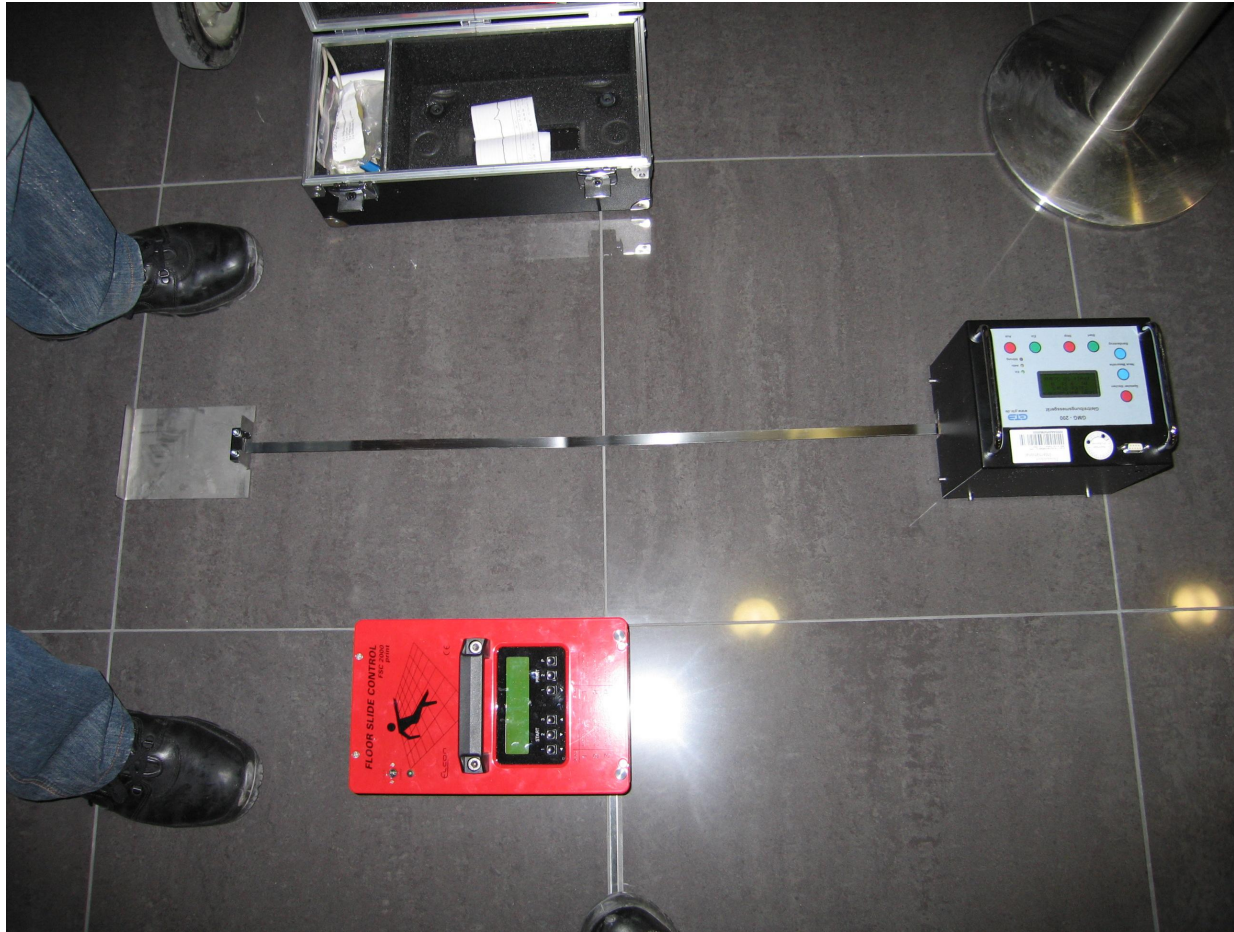
A material body, which is fitted with sliding devices, is selected so, that a defined pressure is effected on the floor covering. The sliding devices consist of a defined material and they have a defined shape.

The body is pulled parallel to a surface of a floor covering at a constant velocity.

The force which is required to pull the body is determined by the measuring length.

For determination of the coefficient of sliding friction this force is divided by the vertically effective force.

GMG 200 vs FSC 2000



Protocol of the sliding friction measurement

- Owner of the floor
- Place of operation
- Floordata:**
- Construction
- Manufacturer
- Year of construction
- Type of covering
- Type of operation
- Conditions of measurement

- Miscellaneous/ remarks

Coefficient of sliding friction

Measurement length

Surface pressure

Mean value

	Protokoll der Gleitmessung gem. EN 13893 bzw. E-DIN 51131 Bestimmung des Gleitreibungskoeffizienten	GMG - Auswertung (c) GTE																																
mit Gleitmessgerät Typ GMG - 200																																		
GMG Seriennr.:	5177569	Letzte Kalibrierung: 17.12.2008																																
Betreiber des Bodens:	_____																																	
Einsatzort:	_____																																	
Bodendaten:	_____																																	
Bauart:	_____																																	
Hersteller:	_____																																	
Baujahr:	_____																																	
Belagart:	_____																																	
Benutzungsart:	_____																																	
Messbedingungen:	_____																																	
Sonstiges:	_____																																	
Sonstiges:	_____																																	
Gleitreibungskoeffizient [μ]																																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Scan Nr.</th> <th>Mw. Gleitr.</th> <th>Slidermaterial</th> <th>Scangültigkeit</th> </tr> </thead> <tbody> <tr> <td>— 1</td> <td>0,51</td> <td>Leder</td> <td>gültig</td> </tr> <tr> <td>— 2</td> <td>0,45</td> <td>Leder</td> <td>gültig</td> </tr> <tr> <td>— 3</td> <td>0,48</td> <td>Leder</td> <td>gültig</td> </tr> <tr> <td>— 4</td> <td>0,39</td> <td>Leder</td> <td>gültig</td> </tr> <tr> <td>— 5</td> <td>0,42</td> <td>Leder</td> <td>gültig</td> </tr> <tr> <td colspan="2">Flächendruck</td> <td>8,86 N/cm²</td> <td></td> </tr> <tr> <td colspan="2">Mittelwert Scan 3-5</td> <td>0,43</td> <td></td> </tr> </tbody> </table>			Scan Nr.	Mw. Gleitr.	Slidermaterial	Scangültigkeit	— 1	0,51	Leder	gültig	— 2	0,45	Leder	gültig	— 3	0,48	Leder	gültig	— 4	0,39	Leder	gültig	— 5	0,42	Leder	gültig	Flächendruck		8,86 N/cm²		Mittelwert Scan 3-5		0,43	
Scan Nr.	Mw. Gleitr.	Slidermaterial	Scangültigkeit																															
— 1	0,51	Leder	gültig																															
— 2	0,45	Leder	gültig																															
— 3	0,48	Leder	gültig																															
— 4	0,39	Leder	gültig																															
— 5	0,42	Leder	gültig																															
Flächendruck		8,86 N/cm²																																
Mittelwert Scan 3-5		0,43																																
		Prüfer:																																
		Datum:																																
(Firmenstempel und Unterschrift)																																		

Date of calibration

Scan validity

Comparison of Safety limits

Wuppertaler Sicherheitsgrenzwerte und Sicherheitsgrenzwerte der Träger der gesetzlichen Unfallversicherung zur Rutschhemmung der Reibpartner Sohle - Fußboden

University of Wuppertal
Safety limit

Professional Association
for industrial safety
and insurance

Department of planning and
building inspection, Düsseldorf

