

# ISO 4138:2012-06 (E)

## Passenger cars - Steady-state circular driving behaviour - Open-loop test methods

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Principle .....	1
4.1	Test methods .....	1
4.2	Equivalence of test methods .....	2
5	Variables .....	2
5.1	Reference system .....	2
5.2	Measurement .....	2
6	Measuring equipment .....	3
6.1	Description .....	3
6.2	Transducer installation .....	3
6.3	Data processing .....	3
7	Test conditions .....	3
8	Test procedure .....	3
8.1	Warm-up .....	3
8.2	Initial driving condition .....	3
8.3	General test description .....	4
8.4	Method 1 -- Constant radius .....	4
8.5	Method 2 -- Constant steering-wheel angle .....	5
8.6	Method 3 -- Constant speed .....	5
9	Data analysis .....	6
9.1	General .....	6
9.2	Lateral acceleration .....	6
9.3	Path radius .....	7
10	Data evaluation and presentation of results .....	7
10.1	General .....	7
10.2	Plotted results (see also Annex A) .....	7
10.3	Evaluation of characteristic values .....	8
Annex A (normative) Presentation of results .....		12
Annex B (normative) Determination of overall (static) steering ratio .....		17
Annex C (informative) General information -- Theoretical basis for the test methods .....		18
Bibliography .....		19