

# ISO 13988:2021 (E)

## Passenger car and light truck vehicle wheels — Clip and adhesive balance weight and rim flange nomenclature, test procedures and performance requirements

---

### Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Rim flange types
5	Test procedure for clip on balance weight
5.1	Preparation of clip on balance weight for test
5.1.1	Selection of balance weights
5.1.2	Measurement of key dimensions of balance weights
5.1.3	Marking of balance weights
5.2	Preparation of the wheel for clip on balance weight testing
5.2.1	Cleaning
5.2.2	Marking
5.2.3	Measurement of rim flange dimensions
5.3	Installation of clip on balance weight
5.4	Tangential test for clip on balance weight
5.4.1	General
5.4.2	Test equipment
5.4.3	Test sequence
5.4.4	Performance requirements tangential force
5.5	Axial removal test for clip on balance weight
5.5.1	Test equipment
5.5.2	Test sequence
5.5.3	Performance requirement axial force
6	Test procedure for adhesive balance weights for all size weights and wheels
6.1	Test equipment
6.2	Wheel preparation
6.3	Balance weight selection and installation
7	Shear adhesion test
7.1	Test procedure
7.2	Performance
8	Pull-off adhesion test
8.1	Test procedure
8.2	Performance