

ISO 6563:2025-11 (E)

Rear load carrier for wheeled vehicles - Requirements and test methods

Contents

Page

Foreword.....	v
1 Scope.....	1
2 Normative references.....	1
3 Terms and definitions.....	1
4 Classification related to the fastening.....	3
5 Requirements and test methods.....	4
5.1 General test conditions.....	4
5.1.1 Measurement uncertainties.....	4
5.1.2 Description and test load.....	4
5.1.3 Interfaces to the vehicle.....	4
5.1.4 Test samples and sequence.....	5
5.2 Lighting – Signalling.....	7
5.3 Rear license plate on vehicle.....	7
5.4 External projections.....	7
5.5 Materials.....	7
5.5.1 General material requirements.....	7
5.5.2 Corrosion resistance.....	8
5.5.3 Weather resistance.....	8
5.5.4 Cold resistance of plastic parts and attachment elements.....	9
5.5.5 Heat resistance of plastic parts.....	9
5.5.6 Functional safety of transport containers.....	9
5.6 Static load bearing capacity (vertical force F_z , longitudinal force F_x and lateral force F_y).....	10
5.6.1 General requirements.....	10
5.6.2 Test setup for static tension tests.....	10
5.6.3 Test loads.....	10
5.6.4 Test implementation.....	11
5.7 Dynamic test.....	12
5.7.1 Load state during dynamic tests.....	12
5.7.2 General requirements.....	12
5.7.3 Test methods for “Belgian pavé”.....	12
5.7.4 Lane change test.....	13
5.7.5 Crash simulation test.....	13
5.7.6 Brake test.....	15
5.7.7 Resistance when driving over a speed bump (sleeping policeman).....	15
5.8 Resistance of straps and mechanical fixing parts for attaching bicycles to the rear load carrier in respect to the elongation force F_s	16
5.8.1 Resistance of textile straps, belts, metallic straps.....	16
5.8.2 Resistance of other elements fixing load to the carrier (clamps, clips, etc.).....	17
6 Product marking.....	18
6.1 Requirement.....	18
6.2 Testing.....	18
7 User information.....	18
7.1 Assembly instructions.....	18
7.2 User instructions.....	19
Annex A (normative) Test bicycle.....	20
Annex B (normative) Construction specification for “Belgian pavé” test rack.....	22

Annex C (informative) Types of rear load carriers	24
Annex D (informative) Rear license plate	28
Annex E (informative) Measurement of displacements.....	30
Annex F (informative) Classification of coupling balls for towing hitches.....	34
Annex G (informative) Typical test setup for the static and crash test.....	35
Bibliography.....	39