

# ISO 20957-8:2017-10 (E)

## Stationary training equipment - Part 8: Steppers, stairclimbers and climbers - Additional specific safety requirements and test methods

---

Contents		Page
Foreword .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Classification .....	6
5	Safety requirements .....	6
5.1	General .....	6
5.2	External construction .....	6
5.2.1	Additional requirements for squeeze and shear points within the accessible area .....	6
5.2.2	Temperature of accessible surfaces .....	6
5.3	Intrinsic loading .....	6
5.4	Handrails/handlebars .....	6
5.5	Footplatforms and stairs .....	7
5.5.1	Footplatforms .....	7
5.5.2	Stairs .....	7
5.6	Endurance .....	7
5.7	Freewheel .....	7
5.8	Additional requirement for class A .....	7
5.9	Additional requirements for stairclimbers .....	8
5.9.1	Stepping on and stepping off .....	8
5.9.2	Manual stopping system .....	8
5.9.3	Automatic stopping system to reduce the risk of entrapment .....	8
5.10	Additional requirements for seated steppers .....	8
5.10.1	Movable handlebars .....	8
5.10.2	Non-movable handlebars .....	8
5.10.3	Seat handlebars .....	9
5.10.4	Seat backrest .....	9
5.11	Additional instructions for use .....	9
6	Test methods .....	9
6.1	General .....	9
6.1.1	Dimensional check .....	9
6.1.2	Visual examination .....	9
6.1.3	Tactile examination .....	9
6.1.4	Performance test .....	9
6.2	Testing of temperature of accessible surfaces .....	9
6.3	Testing of intrinsic loading .....	10
6.3.1	General .....	10
6.3.2	Stepper or climber with independent action .....	10
6.3.3	Stepper or climber with dependent action .....	10
6.3.4	Stairclimber .....	10
6.4	Testing of handrails/handlebars .....	11
6.5	Testing of friction .....	11
6.6	Endurance testing .....	12
6.6.1	General .....	12
6.6.2	Endurance testing for stairclimbers .....	12

6.6.3	Endurance testing for steppers .....	12
6.7	Testing of the additional requirements for class A .....	12
6.8	Testing of stepping on and stepping off .....	13
6.9	Testing of stopping system and clearance between moving stairs and floor or structure.13 6.10 Testing for additional requirements for seated steppers .....	14
6.10.1	Movable handlebars .....	14
6.10.2	Non-movable handlebars .....	14
6.10.3	Seat handlebars .....	14
6.10.4	Seat backrest .....	14
7	Test report .....	15
	Bibliography .....	16