DIN EN ISO 20957-8:2018-03 (E)

Stationary training equipment - Part 8: Steppers, stairclimbers and climbers - Additional specific safety requirements and test methods (ISO 20957-8:2017)

Contents

Page

European foreword ... **4**

Foreword ... **5**

1 Scope ... **6**

2 Normative references ... **6**

3 Terms and definitions ... **6**

4 Classification ... **11**

5 Safety requirements ... **11**

5.1 General ... 11
5.2 External construction ... 11
5.2.1 Additional requirements for squeeze and shear points within the accessible area ... 11
5.2.2 Temperature of accessible surfaces ... 11
5.3 Intrinsic loading ... 11
5.4 Handrails/handlebars ... 11
5.5 Footplatforms and stairs ... 12
5.5.1 Footplatforms ... 12
5.5.2 Stairs ... 12
5.6 Endurance ... 12
5.7 Freewheel ... 12
5.8 Additional requirement for class A ... 12
5.9 Additional requirements for stairclimbers ... 13
5.9.1 Stepping on and stepping off ... 13
5.9.2 Manual stopping system ... 13
5.9.3 Automatic stopping system to reduce the risk of entrapment ... 13
5.10 Additional requirements for seated steppers ... 13
5.10.1 Movable handlebars ... 13
5.10.2 Non-movable handlebars ... 13
5.10.3 Seat handlebars ... 14
5.10.4 Seat backrest ... 14
5.11 Additional instructions for use ... 14

6 Test methods ... **14**

6.1 General ... 14
6.1.1 Dimensional check ... 14
6.1.2 Visual examination ... 14
6.1.3 Tactile examination ... 14
6.1.4 Performance test ... 14
6.2 Testing of temperature of accessible surfaces ... 14
6.3 Testing of intrinsic loading ... 15
6.3.1 General ... 15
6.3.2 Stepper or climber with independent action ... 15
6.3.3 Stepper or climber with dependent action ... 15
6.3.4 Stairclimber ... 15
6.4 Testing of handrails/handlebars ... 16
6.5 Testing of friction ... 16
6.6 Endurance testing ... 17
6.6.1 General ... 17

6.6.2 Endurance testing for stairclimbers 17
6.6.3 Endurance testing for steppers 17
6.7 Testing of the additional requirements for class A 17
6.8 Testing of stepping on and stepping off 18
6.9 Testing of stopping system and clearance between moving stairs and floor or structure 18
6.10 Testing for additional requirements for seated steppers 19
6.10.1 Movable handlebars 19
6.10.2 Non-movable handlebars 19
6.10.3 Seat handlebars 19
6.10.4 Seat backrest 19
7 Test report 20
Bibliography 21