

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 |