

ISO 7176-24:2004-10 (E)

Wheelchairs - Part 24: Requirements and test methods for user-operated stair-climbing devices

Contents		Page
Foreword		iv
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Performance requirements	6
5	Test apparatus	10
6	Preparation of the stair-climbing device	14
7	Test conditions	17
8	Skew angle	17
9	Braking effectiveness	20
10	Static stability	22
11	Dynamic Stability	24
12	Step transition safety	29
13	Static, impact and fatigue strength	31
14	Climatic safety	37
15	Electromagnetic compatibility	38
16	Required safety equipment	39
17	Test report	43
18	Labelling and documentation	43
Annex A (normative) Types of stair-climbing devices with typical representations		46
Annex B (informative) Recommended safety equipment		49
Annex C (normative) Surrogate wheelchair		50
Annex D (normative) Determination of maximum recommended speed		52
Annex E (normative) Configuration and position of stair-climbing devices for stability tests		54
Annex F (normative) Escalator test machine		71

Annex G (normative) Determination of outer dimensions and operating area	72
Annex H (normative) Determination of theoretical energy consumption	80
Annex I (normative) Distinction between smaller and larger clusters	82