INTERNATIONAL STANDARD

ISO 9589

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Escalators — Building dimensions

Escaliers mécaniques — Dimensions des emplacements



ISO 9589:1994(E)

Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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Escalators — Building dimensions

1 Scope

This International Standard specifies the building dimensions for the space needed to install escalators, as shown in figure 1.

It applies to escalators with a maximum nominal speed of 0,5 m/s, an inclination angle of 30° or 35° and a rise from 2 m to 6 m. The machine room is a part of the truss.

This International Standard does not apply to

- certain escalators which are subject to special operational conditions, for which other design dimensions may be required (mainly in public traffic systems);
- special designs like spiral escalators, combinations of escalators and passenger conveyors, etc.

The design of escalators need not correspond to figure 1; only those dimensions indicated shall be observed.

Table 1 — **Dimensions** for L + U and P

Maximum nominal speed, v	Nominal width of step, z	L + U mm		<i>P</i> mm	
m/s	mm	$\alpha = 30^{\circ}$	$\alpha = 35^{\circ}$	α = 30°	α = 35°
0,5 0,5	approx. 600 approx. 800 to 1 100	5 100 5 100	5 100 5 100	4 600 4 600	4 300 4 300

Table 2 — Well cut-out according to step width

Dimensions in millimetres

Nominal step	Well cut-out			
width, z	<i>M</i> ₁ *	M ₂ *		
600	1 270	1 240		
800	1 470	1 440		
1 000	1 670	1 640		

^{*} To avoid the need for ceiling guards set by national regulations, this cut-out may be increased.

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2 Dimensions

1) Surroundings of the escalator shall be in accordance with national requirements.

Key			
N	horizontal projection of inclined part of the escalator	L	lower landing
M_1		L_1	distance between supports
$M_1 M_2$	well cut-out	U	upper landing
P	pit dimension	α	angle of inclination
H	floor height (rise)	z	nominal step width

Figure 1 — Side and top view

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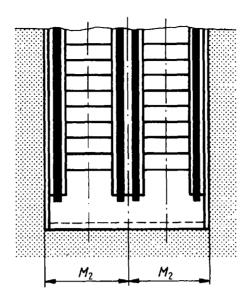


Figure 2 — Arrangement in parallel or crossing

ICS 91.140.90

Descriptors: escalators, installation, buildings, position (location), dimensions.

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