INTERNATIONAL STANDARD

ISO 9589

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Escalators — Building dimensions

Escaliers mécaniques — Dimensions des emplacements

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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.

International Standard ISO 9589 was prepared by Technical Committee ISO/TC 178, *Lifts, escalators, passenger conveyors*.

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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 m/s	**Nominal width of step, z** mm	$L + U$ mm		P mm	
		$\alpha = 30°$	$\alpha = 35°$	$\alpha = 30°$	$\alpha = 35°$
0,5	approx. 600	5 100	5 100	4 600	4 300
0,5	approx. 800 to 1 100	5 100	5 100	4 600	4 300
NOTE — 35° escalators may not be permitted by some national regulations.					

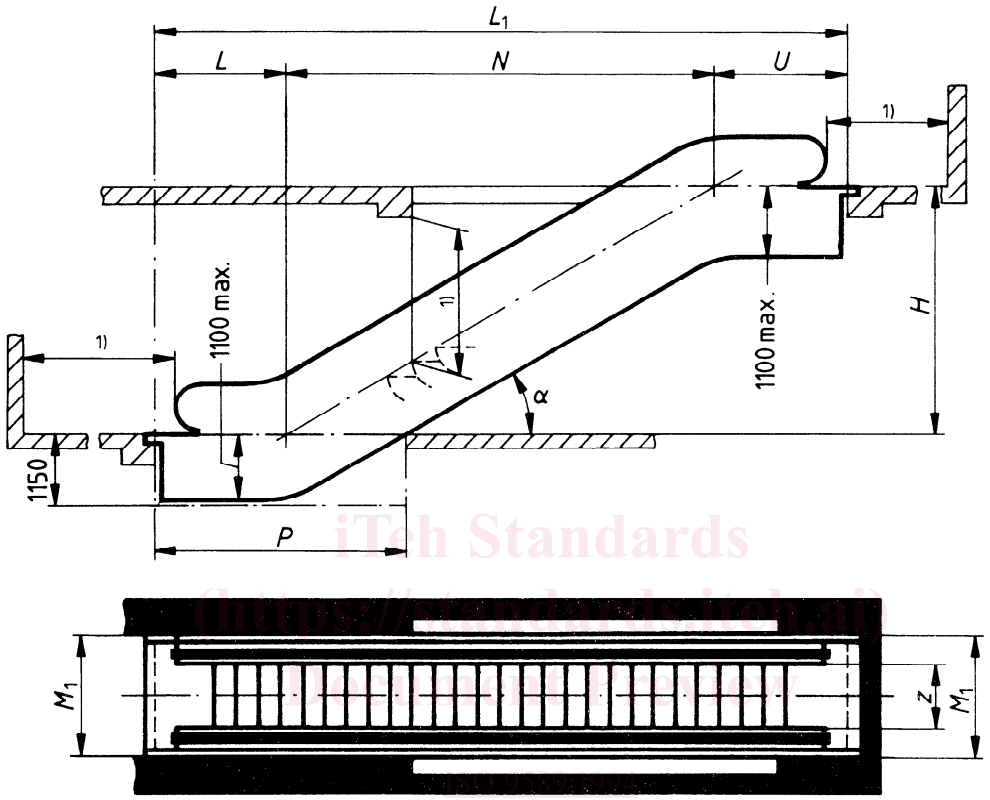
Table 2 — Well cut-out according to step width

Dimensions in millimetres

Nominal step width, z	**Well cut-out**	
	M_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.		

2 Dimensions

Dimensions in millimetres



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, M_2	well cut-out	L_1	distance between supports
		U	upper landing
P	pit dimension	α	angle of inclination
H	floor height (rise)	z	nominal step width

Figure 1 — Side and top view