

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

Electrostatics –
Part 6-1: Electrostatic control in healthcare, commercial and public facilities –
Healthcare

Électrostatique –
Partie 6-1: Contrôle électrostatique dans les établissements de soins,
commerciaux et publics – Établissements de soins

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTROSTATICS –

**Part 6-1: Electrostatic control in healthcare,
commercial and public facilities – Healthcare**

AMENDMENT 1

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Amendment 1 to IEC 61340-6-1:2018 has been prepared by IEC technical committee 101: Electrostatics.

The text of this Amendment is based on the following documents:

Draft	Report on voting
101/713/FDIS	101/720/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this Amendment is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications/.

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- revised.

Title

Replace the existing title:

**Electrostatics – Part 6-1: Electrostatic control for healthcare –
General requirements for facilities**

with the following new title:

**Electrostatics – Part 6-1: Electrostatic control in healthcare,
commercial and public facilities – Healthcare**

2 Normative references

Replace the existing title of IEC 60364-7-710 with the following new title:

IEC 60364-7-710, *Low-voltage electrical installations – Part 7-710: Requirements for special installations or locations – Medical locations*

4.2 ESD effects on equipment

Replace, in the last sentence of the fifth paragraph, "static control" with "electrostatic control".

5.3.1 Classification by groups

Replace the existing second paragraph with the following new paragraph:

Selection of materials to reduce residual charge levels is recommended in all locations. Grounding of personnel and other conductors is recommended in G0 locations, is conditionally required in G1 locations (see 5.3.4) and is required in G2 locations. Electrostatic control methods for each location are summarised in Table 1.

Table 1 – Summary of electrostatic control methods for specified locations

Replace the existing Table 1 with the following new Table 1:

Table 1 – Summary of electrostatic control methods for specified locations

Location	Electrostatic control method			
	Ground personnel via footwear and flooring	Ground other conductors via flooring or direct connection	Use of conductive or dissipative materials	Use of low charging materials
Unclassified	Not mandatory	Not mandatory	Recommended ^a	Recommended
G0	Recommended	Recommended	Recommended ^a	Recommended
G1	Conditionally required ^b	Conditionally required ^b	Recommended ^a	Recommended
G2	Required	Required	Recommended ^a	Recommended
^a Conductive and dissipative materials should only be used if grounding is provided.				
^b Electrostatic control methods are required in G1 locations if the humidity was less than 30 % RH (see 5.3.4).				

5.3.2 Unclassified rooms

Delete the existing Note.

5.3.3 Group 0 – Electrostatic control recommended

Replace the existing first paragraph with the following new paragraph:

Typical locations are massage therapy rooms.

5.3.4 Group 1 – Electrostatic control recommended

Replace the existing title with the following new title:

5.3.4 Group 1 – Electrostatic control conditionally required

Replace the existing first paragraph with the following new paragraph:

Typical locations are bedrooms, delivery rooms, electrocardiogram (ECG), electroencephalogram (EEG), electrohysterogram (EHG) rooms, endoscopic rooms, examination or treatment rooms, urology rooms, radiological diagnostic and therapy rooms, hydrotherapy rooms, physiotherapy rooms, haemodialysis rooms, MRI rooms and nuclear medicine rooms.

Add, after the existing last paragraph, the following new paragraph:

Electrostatic control methods are required in G1 locations if the humidity falls below 30 % RH, or below the humidity specified by equipment manufacturers, for a significant period of time (typically a continuous period of more than an hour), or if there is evidence of unacceptably high electrostatic charging. Evidence of unacceptably high charging can be the occurrence of any of the electrostatic hazards described in Clause 4, and can be confirmed by testing, see 5.6.2.3.3, 5.6.3.4 and 5.7 c) and d).