

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Railway applications – Current collection systems – Pantographs, testing
methods for carbon contact strips**

**Applications ferroviaires – Systèmes de captage du courant – Méthodes
d'essais des bandes de frottement en carbone des pantographes**



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

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

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RAILWAY APPLICATIONS – CURRENT COLLECTION SYSTEMS – PANTOGRAPHS, TESTING METHODS FOR CARBON CONTACT STRIPS

1 Scope

This International Standard gives rules for testing methods for carbon contact strips. The purpose of this standard is to demonstrate that the carbon contact strip construction, by attachment to integral supporting structure (carrier) but excluding bolted assembly, is fit for purpose. Not all tests may be relevant to some designs.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

None.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

carbon contact strip

strip of carbon material, permanently attached to an integral supporting structure (carrier) but excluding bolted assemblies

3.2

shear strength

stress at failure of the adhesion between carbon and the support structure

3.3

autodrop detection sensor

mechanism incorporated in the carbon contact strip to provide the indication for the pantograph automatic dropping device (ADD)

3.4

flow continuity

uninterrupted flow of air or other fluid

3.5

rated current loading

current value defined by the manufacturer that the carbon strip is designed to sustain without degradation under the specified operating conditions

4 Symbols and abbreviations

A designed area of adhesion (mm²)

F_S shear force (N)