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Railway applications - Braking - Calculations for the estimation of stopping distance for specific Wheel Slide Protection testing

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English Version

## Railway applications - Braking - Calculations for the estimation of stopping distance for specific Wheel Slide Protection testing

Applications ferroviaires - Freinage - Calculs pour l'estimation des distances d'arrêt pour les essais spécifiques aux dispositifs d'anti-enrayage

Bahnanwendungen - Bremsen - Bremswegberechnungen für den Schleuderschutz

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**CEN/TR 17315:2019 (E)**

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## **European foreword**

This document (CEN/TR 17315:2019) has been prepared by Technical Committee CEN/TC 256 “Railway applications”, the secretariat of which is held by DIN.

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**CEN/TR 17315:2019 (E)****Introduction**

EN 15595 for Wheel Slide Protection (WSP) provides methods for testing a WSP system (Clause 7) and criteria for the evaluation of its performance under test (Clause 8). This includes tests and evaluation of the stopping performance of a vehicle/train with the WSP system fitted, carried out as track tests or on a WSP simulator.

For the evaluation of stopping performance during slide tests (see 8.3), the standard specifies the maximum permitted stopping distance extension for a vehicle/train, measured as a percentage of its dry rail stopping distance (Table 8). The maximum extension values are derived from estimations of the wheel/rail adhesion improvement produced by the operation of the WSP system and the associated vehicle stopping distances expected in the slide tests, calculated as detailed in this document.

## **1 Scope**

This document gives guidelines for the calculation of vehicle stopping distances when testing a WSP system using the methods specified in EN 15595, the standard for Wheel Slide Protection, under the conditions defined in that standard.

This document is only applicable to the calculation of stopping distances for the evaluation of the results of WSP tests carried out in accordance with EN 15595.

This document does not apply to calculations used to determine the stopping performance of a WSP equipped train under operational conditions as it is only applicable for specific WSP test conditions.

## **2 Normative references**

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

EN 14478, *Railway applications — Braking — Generic vocabulary*

EN 15595:2018, *Railway applications — Braking — Wheel slide protection*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**