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Railway applications - Drivers cab - Part 8: Tram vehicle layout and access

Táto norma obsahuje anglickú verziu európskej normy.
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English Version

Railway applications - Driver's cab - Part 8: Tram vehicle layout and access

Applications ferroviaires - Cabines de conduite - Partie 8 : Aménagement et accès pour les tramways

Bahnanwendungen - Führerraum - Teil 8: Gestaltung und Zugang bei Straßenbahnfahrzeugen

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European foreword

This document (EN 16186-8:2022) has been prepared by Technical Committee CEN/TC 256 “Railway applications”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2022, and conflicting national standards shall be withdrawn at the latest by October 2022.

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EN 16186 *Railway applications — Driver’s cab* consists of the following parts:

— *Part 1: Anthropometric data and visibility*

— *Part 2: Integration of displays, controls and indicators*

— *Part 3: Design of displays for heavy rail vehichles*

— *Part 4: Layout and access*

— *Part 5: External visibility for tram vehicles*

— *Part 6: Integration of displays, controls and indicators for tram vehicles*

— *Part 7: Design of displays for tram vehicles*[1]

— *Part 8: Tram vehicle layout and access*

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[1] To be published.

1 Scope

This document gives design rules and requirements in order to ensure proper access, lighting, seating and exit of driver's cabs. The different dimensions are based on the anthropometric data defined in EN 16186-5. The corresponding assessment methods are also included in this document. It covers the following aspects:

— dimension and interior layout;

— door access, steps, floor characteristics;

— seats dimension and clearance;

— interior cab lighting;

— emergency exit;

— marking and labelling.

This document is applicable to vehicles operating on tram networks.

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 894-3, *Safety of machinery - Ergonomics requirements for the design of displays and control actuators - Part 3: Control actuators*

EN 1005-3, *Safety of machinery - Human physical performance - Part 3: Recommended force limits for machinery operation*

EN 12663-1, *Railway applications - Structural requirements of railway vehicle bodies - Part 1: Locomotives and passenger rolling stock (and alternative method for freight wagons)*

EN 13272-2, *Railway applications - Electrical lighting for rolling stock in public transport systems - Part 2: Urban rail*

EN 15152, *Railway applications - Windscreens for trains*

EN 15227, *Railway applications - Crashworthiness requirements for rail vehicles*

EN 16186-5:2021, *Railway applications - Driver's cabs - Part 5: External visibility for tram vehicles*

EN 16186-6:—[2], *Railway applications - Driver's cabs - Part 6: Integration of displays, controls and indicators for tram vehicles*

EN 17530, *Railway applications - Interior glazing for rail vehicles*

[2] Under preparation: Stage at the time of publication: prEN 16186-6:2022.

EN 45545-4:2013, *Railway applications - Fire protection on railway vehicles - Part 4: Fire safety requirements for rolling stock design*

EN ISO 2813:2014, *Paints and varnishes - Determination of gloss value at 20°, 60° and 85° (ISO 2813:2014)*

EN ISO 3385, *Flexible cellular polymeric materials - Determination of fatigue by constant-load pounding (ISO 3385)*

EN ISO 7010:2020, *Graphical symbols - Safety colours and safety signs - Registered safety signs (ISO 7010:2019, Corrected version 2020-06)*

ISO 2631-1, *Mechanical vibration and shock — Evaluation of human exposure to whole-body vibration — Part 1: General requirements*

ISO 3864-1:2011, *Graphical symbols — Safety colours and safety signs — Part 1: Design principles for safety signs and safety markings*