

norm**NEN-EN 14351-1**

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Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets

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Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets

Fenêtres et portes - Norme produit, caractéristiques de performance - Partie 1 : Fenêtres et blocs portes extérieurs pour piétons

Fenster und Türen - Produktnorm, Leistungseigenschaften - Teil 1: Fenster und Außentüren

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Oorbereid
 Preview

European foreword

This document (prEN 14351-1:2019) has been prepared by Technical Committee CEN/TC 33 “Doors, windows, shutters, building hardware and curtain walling”, the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 14351-1:2006+A2:2016.

Compared with EN 14351-1:2006+A2:2016, the following changes have been made:

- a) the scope has been changed and now covers roof windows for installation in inclined roofs and power operated external pedestrian hinged doorsets;
- b) normative references were updated;
- c) subclause 3.1, new terms and definitions have been added to for French windows (3.1.7), bonded glazing (3.1.8) and direct glazing (3.1.9);
- d) subclause 3.2 Symbols has been added;
- e) the former Clause 4 has been transformed in two clauses:
 - 1) Clause 4 Product characteristics;
 - 2) Clause 5 Testing, assessment and sampling methods;
- f) clarifications have been added for fixed windows and windows with incorporated shutters and/or shutter boxes and/or blinds;
- g) numerous editorial changes
- h) the following essential characteristics are new:
 - 1) reaction to fire for windows and doors (was before only for roof windows);
 - 2) frame area ratio FF;
 - 3) child safety (only for risk of falling from height);
 - 4) operating forces (only for automatic devices and external pedestrian doors for special uses and specific requirements) (4.15);
- i) subclause 4.5 Width deleted;
- j) subclause 4.7 Ability to release is clarified as “to open” and additional provisions for assessing hinges not covered by EN 1935 were added;
- k) subclause 4.9 Resistance to wind load for external shutters and blinds were added;
- l) subclause 4.10, 4.12, 4.19, 4.20 Thermal transmittance and radiation properties including shutterbox, shutters, blinds were added (only for windows);

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- m) subclause 4.13 Load bearing capacity of safety devices specified only for windows;
- n) subclause 4.14 Mechanical resistance to snow and permanent load (only for roof windows) has additional provisions for assessing the resistance of the roof window against impact from the outside, if relevant;
- o) subclause 4.18 Provisions for assessing the durability of operating forces (only for automatic devices) have been added;
- p) subclause 4.24 Bullet resistance, rules of applying results for similar design were added;
- q) subclause 4.29 Provisions for assessing bonded glazing have been added;
- r) subclause 4.31 Provisions for power operated windows and referenced standards have been updated;
- s) subclause 4.32 Requirements on power operated external pedestrian doorsets have been added;
- t) Clause 5 has been aligned to the characteristics specified in the Clause 4 and has additional provisions where relevant;
- u) Clause 6 Assessment and verification of constancy of performance — AVCP has been revised according to the new template and contains the provisions of the former Clauses 7 and 8;
- v) most annexes have been renumbered.
- w) Annex A has been amended to new the new elements of Clause 4;
- x) Annex B has additional provisions for the interpolation of glazings different than tested;
- y) Annex C is amending provisions of the former Annex E;
- z) former Annex C (that listed standards for glazings (informative)) has been deleted;
- aa) former Annex D (dealing with Examples of performance and requirement profiles of a roof window (informative)) has been deleted;
- bb) Annex F (former Annex H) has been updated and amended with provisions for windows and external pedestrian doorsets;
- cc) Annex H (new) has application procedures for resistance to wind load on windows and external pedestrian doorsets with framed door leaves with larger sizes than type tested;
- dd) Annex J Classifications/values of individual characteristics has been amended to new the new elements of Clause 4;
- ee) Annex ZA has been changed significantly to conform with the new template.

This document has been prepared under a standardization request given to CEN and CENELEC by the European Commission and the European Free Trade Association, and supports Basic Work Requirements of EU Regulation and essential requirements of EU Directive(s) and EU Regulations.

For relationship with EU Regulation/Directive(s), see informative Annexes ZA, ZB and ZC, which are an integral part of this document.

This European standard is one of a series of standards for windows and pedestrian doorsets (see Figure 1).

EN 14351-1 alone, applies to all windows and external pedestrian doorsets except resistance to fire and smoke control characteristics.

For the windows and external pedestrian doorsets having fire resisting and/or smoke control characteristics, EN 16034 applies in conjunction with EN 14351-1.

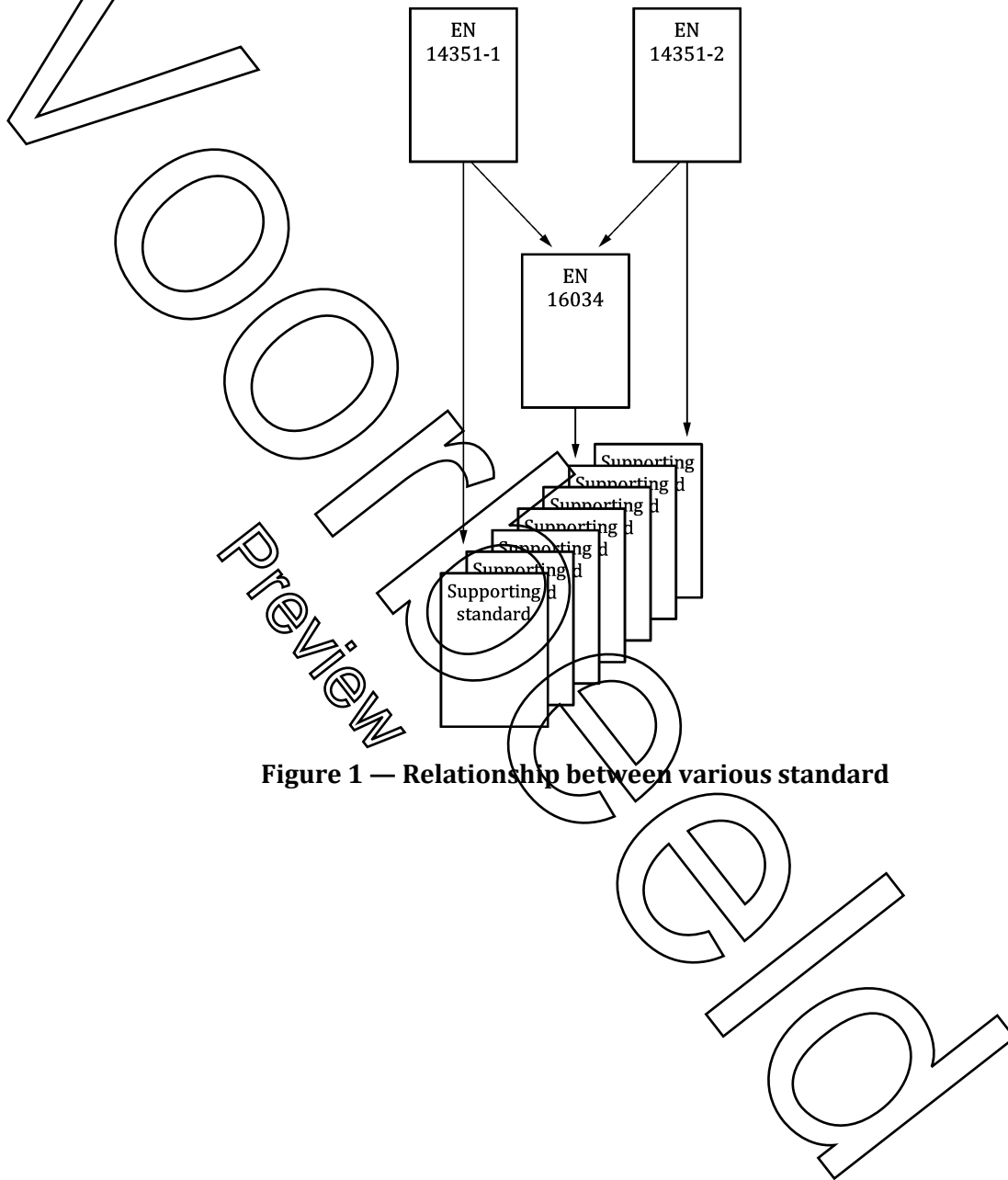


Figure 1 — Relationship between various standard

prEN 14351-1:2019 (E)**1 Scope**

This document identifies material independent performance characteristics, except resistance to fire and smoke control characteristics, that are applicable to windows (including roof windows, roof windows with external fire resistance and door height windows), external pedestrian doorsets (including unframed glass doorsets, escape route doorsets and their assemblies).

Fire resisting and/or smoke control characteristics for pedestrian doorsets and openable windows are covered by EN 16034.

This document applies to

- fixed windows or fixed lights, manually or power operated windows, French windows and screens for installation in vertical wall apertures and roof windows for installation in inclined roofs, complete with:
 - related hardware, if any;
 - weather stripping, if any;
 - glazed apertures when intended to have glazed apertures;
 - with or without incorporated shutters and/or shutter boxes and/or blinds;
 and manually or power operated windows, roof windows, French windows and screens that are:
 - fully or partially glazed including any non-transparent infill;
 - fixed or partly fixed or openable with one or more casements/sashes (e.g. hinged, projecting, pivoted, sliding);
- manually operated external pedestrian doorsets or power operated external pedestrian hinged doorsets with flush or panelled leaves in construction works, complete with:
 - integral fanlights, if any;
 - adjacent parts that are contained within a single frame for inclusion in a single aperture, if any.

The windows covered by this document are not assessed regarding their ability to release (to open).

The products covered by this document are not assessed for structural applications.

This document does not apply to:

- rooflights according to EN 1873 and EN 14963;
- curtain walling according to EN 13830;
- industrial, commercial and garage doors and gates according to EN 13241;
- internal pedestrian doorsets according to EN 14351-2;
- revolving doorsets;
- power operated pedestrian doorsets according to EN 16361;
- windows intended to be part of internal partition.

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