

KENYA STANDARD

DKS 3050-1: 2026

ICS

First Edition

Fire doors and door-sets — Part 1: Vocabulary

DKS 3050-1: 2026

TECHNICAL COMMITTEE REPRESENTATION

The following organizations were represented on the Technical Committee:

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Nairobi City County Government
Simax Engineering Ltd.
Flammatech Ltd.
Kenya National Fire Brigade Association
Moi Teaching and Referral Hospital
Cygnum Concepts Systems Ltd.
Masinde Muliro University of Science and Technology
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Fire doors and door-sets — Part 1: Vocabulary

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Foreword

This Kenya Standard was prepared by the Equipments for Firefighting and Fire protection Technical Committee under the guidance of the Standards Projects Committee, and it is in accordance with the procedures of the Kenya Bureau of Standards.

Kenya Bureau of Standards (KEBS) has established Technical Committees (TCs) mandated to develop Kenya Standards (KS). The Committees are composed of representatives from the public and private sector organizations in Kenya.

Kenya Standards are developed through Technical Committees that are representative of key stakeholders including government, academia, consumer groups, private sector and other interested parties. Draft Kenya Standards are circulated to stakeholders through the KEBS website and notifications to World Trade Organization (WTO). The comments received are discussed and incorporated before finalization of the standards, in accordance with the Procedures for Development of Kenya Standards.

Kenya Standards are subject to review, to keep pace with technological advances. Users of the Kenya Standards are therefore expected to ensure that they always have the latest versions of the standards they are implementing.

During the preparation of this standard, reference was made to the following document:

IS 3614, Fire doors and door sets — Specification.

Acknowledgement is hereby made for the assistance derived from this source.

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Fire doors and door-sets — Part 1: Vocabulary

1 Scope

This Draft Kenya Standard specifies vocabulary for fire doors and door sets.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

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

3.1

active leaf

first operating door of a pair door/double leaf door, which is usually the door on which a lock is installed

3.2

anchor

mechanical device for attaching frames to the surrounding structure

3.3

aperature

prepared opening formed in a door leaf or frame to accommodate glazing, louver assemblies, hardware, or other installed components

3.4

astragal

vertical or horizontal moulding or strip usually metallic, attached to the meeting edge of one leaf of a pair of doors (double leaf doors) to protect against weather conditions, to minimize the passage of light between the door leaves, and/or to retard the passage of smoke, flame or gases during a fire; and, in the case of a half door, to ensure that the lower leaf of the door closes in conjunction with the upper leaf

3.5

authority

right, power, or legal ability to test and approve fire doors

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- 3.6 automatic closing device**
device, attached to a door, that causes the door to close when activated as a result of a predetermined temperature, rate of temperature rise, smoke, or through a combustion detector. Activation may also be through a building management system (BMS).
- 3.7 binders (sliding door, horizontal and vertical)**
pieces of hardware used to hold a sliding door to the wall, preventing lateral movement of the door from the wall
- 3.8 bi-parting door**
horizontal sliding door in which one door moves to the right and one moves to the left in order to open
- 3.9 bottom bar/rail [roller shutter (metallic)]**
structural reinforcing member at the lower edge of the door curtain assembly
- 3.10 box track**
type of track used with sliding doors that is formed from a sheet of steel and shaped as box
- 3.11 brackets [sliding door (metallic), roller shutter (metallic)]**
plates bolted to the wall or to extensions of the guide wall angles that serve to support the barrel and form end closers for the hood
- 3.12 builder's hardware**
all hardware that are independently tested for durability, usage and individual type testing for fire rating. All hardware to be used on fire rated door shall be components of a fire door assembly
- 3.13 bumpers (sliding door)**
stops, installed to limit the closing or opening movement of a sliding door
- 3.14 centre latch**
latch used to hold the two halves of a bi-parting fire door together, which is usually in two pieces surface-mounted to doors and interlocked in the closed position
- 3.15 chafing strip (sliding door)**
metal strip applied to the back surface of a sliding door to protect the door surface from damage from the wall
- 3.16 channel frame**
frame that consists of head and jamb members of structural steel channels, either shop assembled or field assembled, to be used with masonry walls
- 3.17 cladded**
covered or coated with a layer of another material
- 3.18 closing device**
means of closing a door from a partially or fully opened position

3.19

door coordinator

device used on pairs of swinging doors that prevents the active leaf from closing before the inactive leaf closes

3.20

door closer

mechanical hydraulic device that, when applied to a door and frame, causes an open door to close by mechanical force. The closing speed can be regulated by this device

3.21

door holder/release device

fail-safe device, controlled by a detection device, used on an automatic closing door to release the door at the time of fire

3.22

EPDM (Ethylene Propylene Diene Monomers) gasket

gaskets made of ethylene propylene diene monomer rubber to prevent movement of smoke from one side to other in a draft control test

3.23

fire door

door component of a fire door assembly

3.24

fire door assembly (doorset)

any combination of a fire door, frame, hardware, and other accessories that, together, provide a specific fire-resistant rating to the opening in terms of its integrity and insulation properties when installed in the opening

3.25

fire door frame

component, forming the perimeter of an opening in a fire door assembly, that is supplied in fabricated or knock-down condition, and anchored to the surrounding structure and to which the door leaf is attached

3.26

fire resistance rating

time, in minutes, that material(s) or assemblies will withstand the standard fire exposure as established in accordance with the standard method of test for integrity or integrity along with insulation properties

3.27

flush bolts, automatic

mortised bolt installed near the top or bottom of the inactive leaf of a pair of doors that holds the inactive leaf in a closed position and is released automatically when the active leaf is opened

3.28

flush bolts, manual

mortised bolt installed near the top or bottom of the inactive leaf of a pair of doors in which the bolts are manually extended or retracted into or out of the head member or sill by means of a lever

3.29

glazing

transparent or translucent infill, together with all the components required to hold it within a frame

3.30

glazing material

transparent or translucent material used in fire door assemblies

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3.31

governor (sliding, and roller steel doors)

mechanical device that limits the speed of descent of the door during automatic closure

3.32

guide (sliding, and roller steel doors)

vertical assembly in which the door leaf or shutter travels and is fastened to the jamb, retaining the edges of the door and closing the space between the door leaf or shutter edges and the jamb

3.33

guide rail

steel member, attached to the wall or frame, used with vertical sliding doors to guide the door

3.34

guide shoe

member attached to vertical sliding doors used to guide and retain the door on the guide rail

3.35

guide wall angle (sliding, and roller steel doors)

component of the guide assembly that is fastened to the jamb

3.36

hanger (sliding door)

member used to attach a horizontally sliding door to the track and to cause the door to roll on or in the track

3.37

heat-actuated device

devices that include fixed temperature releases, rate-of-temperature rise releases, and door closers withhold-open arms embodying a fusible link

3.38

hollow metal door

set of door frame and sandwiched shutter made of galvanized steel or stainless steel (commonly of the flush type), fabricated of sheet steel and reinforced by light metal channels, and has a hollow core, sometimes filled with a light filler material

3.39

hood (roller steel door)

sheet metal housing that mounts horizontally between the brackets, serving as an enclosure for the coiled roller shutter and closing the space between the door coil and the lintel

3.40

impact switch

device that can be attached to a power-operated fire door to stop or reverse the closing motion of a power-operated door upon meeting an obstruction

3.41

inactive leaf

leaf of a pair of door leaves that ordinarily is latched closed (the other being the only operating leaf)

3.42

integrity

ability of a separating element of building construction, when exposed to fire on one side, to prevent the passage of flames and hot gases or the occurrence of flame on the unexposed side

3.43

insulation

temperature resistance rises on the unexposed face up to a maximum of 180 °C at any single point and a maximum average temperature of 140 °C

3.44

intumescent seal

seal used to impede the flow of heat, flame or gases, which only becomes active when subjected to elevated temperature

Note 1 to entry: Intumescent seals are components which expand, helping to fill gaps and voids, when subjected to heat in excess of the ambient temperature.

3.45

jamb

vertical side member of a door frame

3.46

labelled

equipment or materials to which has been attached a label, symbol, or other identifying mark of an organization (that is acceptable to the competent authority) concerned with product evaluation, that maintains periodic inspection of production of labelled equipment or materials, and by whose labelling the manufacturer indicates compliance with appropriate standard(s)

3.47

latching device

spring-loaded latch bolt or a gravity operated steel bar that, after release by physical action, returns to its operating position and automatically engages the strike plate when it is returned to the closed position

3.48

lintel

horizontal member spanning and carrying the load above an opening

3.49

louver, automatic

opening in a door with a series of slats or blades to allow passage of air and designed to close automatically in the event of fire

3.50

power-operated fire doors

doors that normally are opened and closed electrically, pneumatically, or mechanically

3.51

rebate

recess in a frame, into which a moving element fits

3.52

sliding hardware

system of rails, hangers, rollers, guides, binders, and closing devices that are self-closing by means of gravity, weights, and pulleys or spring actuated devices

3.53

sill

member which connects two frame jambs together at the base which may or may not be set into the floor and remains visible

3.54

spring hinge

closing device in the form of a hinge with a built-in spring used to hang and close the door

3.55

stay rollers [sliding door (horizontal)]

device used on horizontally sliding doors at their back lower corners to guide the door and prevent the door from moving away from the wall under fire conditions

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3.56

electric strike

strike that, when activated, either releases or retains a projected latch or dead bolt

3.57

strike plate

wear plate for projecting hardware or a wear plate and keeper for a latch bolt

3.58

substrate

underlying layer where something rests on

3.59

transom

opening in a fire door frame above the door opening that is filled by a solid panel or with glazing material

3.60

vent [sliding door (horizontal)]

hole cut in a fire door to allow for venting of the products of combustion

3.61

viewer

viewing device installed in a door to allow observation of persons opposite the security side (inside) of the door without having to open the door

3.62

vision panel

glazed opening installed in the door leaf that allows one to see through the door without opening it

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