# INTERNATIONAL STANDARD

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# Doors, windows and curtain walling — Curtain walling — Vocabulary

Portes, fenêtres et façades-rideaux — Façades-rideaux — Vocabulaire

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This document was prepared by Technical Committee ISO/TC 162, *Doors, windows and curtain walling*.

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# Doors, windows and curtain walling — Curtain walling — Vocabulary

# 1 Scope

This document provides definitions for terms used in documents, drawings, specifications, etc., when referring to the detailed elements of curtain walling.

It provides a comprehensive, though not total, list of regular terms.

It does not set out to repeat those physical definitions properly included within individual curtain walling standards related to performance requirements and associated test methods.

## 2 Normative references

There are no normative references in this document.

#### 3 Terms and definition

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <a href="https://www.iso.org/obp">https://www.iso.org/obp</a>
- IEC Electropedia: available at <a href="http://www.electropedia.org/">http://www.electropedia.org/</a>

#### 3.1

#### bonded glazing

type of curtain walling where the glass is primarily retained by a *perimeter seal* (3.21) and maybe with a supplementary mechanical restraint (see Figure A.8) 8-4beb-90d7-17916cd65cd7/iso-22497-2021

Note 1 to entry: Formerly known as structural sealant glazing (SSGS).

#### 3.2

#### cassette construction

type of curtain walling construction comprising glazed or infilled sub-frames inserted in to a framework of usually vertical and/or horizontal profiles

## 3.3

# coping

component which protects the junction between the curtain walling and the roof edge from weather (see Figure A.9)

#### 3.4

#### cover cap

#### face cover

profiled external cover applied, usually snap fitted, over the face of the *pressure plate* (3.22) to provide an architectural finish (see Figure A.1, Figure A.3 and Figure A.4)

#### 3.5

#### cradle guide

#### gondola guide

specially profiled continuous recess or projection designed into or separately attached to the *mullion* (3.20) to provide a location guide for an access cradle (see Figure A.1)

#### 3.6

#### curtain walling

part of the building envelope made of a framework usually consisting of horizontal and vertical profiles, connected together and anchored to the supporting structure of the building, and containing fixed and/ or openable infills, which provides all the required functions of an internal or external wall or part thereof, but does not contribute to the load bearing or the stability of the structure of the building

Note 1 to entry: Curtain walling is designed as a self-supporting construction which transmits dead-loads, imposed loads, environmental loads (wind, snow, etc.) and seismic loads to the main building structure.

Note 2 to entry: In some English speaking countries, the term "curtain wall" is also used to describe curtain walling.

Note 3 to entry: The term "curtain wall" in English may be used for other types of external wall.

Note 4 to entry: Fixed and/or openable infills can be described as fixed and/or openable parts in some countries.

#### 3.7

# double skin curtain walling

type of *curtain walling* (3.6) comprising inner and outer skins and an air cavity, designed and supported as an integrated system fulfilling the functions of the *curtain walling* (3.6) (see Figure A.7)

#### 3.8

## drainage hole

#### weep hole

opening through which water drains to the building exterior (see Figure A.3 and Figure A.11)

#### 3.9

#### external glazing gasket

preformed resilient profiled length of sealing material installed between the external face of a glass pane, insulating glass unit (3.16) or infill panel (3.14) and the surrounding frame glazing bead (3.11) or pressure plate (3.22) (see Figure A.3 and Figure A.4)

## 3.10

# fixing bracket

assembly of components designed to transmit all actions on the *curtain walling* (3.6) back to the building structure while allowing any required movement (see Figure A.1)

# 3.11

#### glazing bead

length of profiled material used around the periphery of a pane of glass, insulating glass unit (3.16) or infill panel (3.14) to secure it in its frame

Note 1 to entry: Term "glazing stop" is also used in some countries.

#### 3.12

#### glazing seal

amorphous sealing material installed between face of a glass pane, insulating glass unit (3.16) or infill panel (3.14) and the surrounding frame, glazing bead (3.11) or pressure plate (3.22)

#### 3.13

#### head

horizontal framing member positioned at the top of the *curtain walling* (3.6) or at the top of an area of glass, windows, panels or doors (see Figure A.1 and Figure A.6)

#### 3.14

#### infill panel

translucent or opaque filler or facing material, either of one piece or an assembly, installed within a surrounding frame (Figure A.1, Figure A.4 and Figure A.5)

#### 3.15

### infill support

device designed to transfer the dead load of the infill to the framing members (see Figure A.11)

Note 1 to entry: When the infill material is glass, the term used is "glazing support".

#### 3.16

## insulating glass unit

#### **IGU**

composite unit of two or more panes of glazing hermetically sealed to provide an improved performance of thermal and acoustic insulation (see Figure A.4)

#### 3.17

#### internal glazing gasket

preformed resilient shaped length of sealing material installed between the internal face of a glass pane, *insulating glass unit* (3.16) or *infill panel* (3.14) and its surrounding frame or *glazing bead* (3.11) (see Figure A.3) and Figure A.4)

#### 3.18

### jamb

vertical framing member positioned at the vertical edge of the *curtain walling* (3.6) (see Figure A.1)

#### 3.19

#### movement joint

joint to accommodate thermal or other movements arising from the *curtain walling* (3.6) or the supporting structure

#### 3.20

#### mullion

vertical framing member of a curtain walling (3.6) (see Figure A.1, Figure A.2 and Figure A.3)

#### 3.21

#### perimeter seal

joint between the *curtain walling* (3.6) and adjacent construction designed to give continuity at both the air and water barriers of the wall (see Figure A.1)  $_{-7388-4beb-90d7-1791}$  fedd5cd7/iso-22497-2021

#### 3.22

#### pressure equalization

method of sealing and compartmenting the wall that enables the rapid minimization of differential air pressure between cold facade cavities or glazing rebates and the external air (see <u>Figure A.4</u>)

#### 3.23

#### pressure plate

length of profiled material attached to *mullions* (3.20) and/or *transoms* (3.32) around the perimeter of a pane of glass, *insulating glass unit* (3.16) or *infill panel* (3.14) to provide restraint and usually compress the glazing gasket (see Figure A.3, Figure A.4 and Figure A.11)

#### 3.24

#### setting block

small block of suitable material, placed under the lower edge of a pane of glass, *insulating glass unit* (3.16) or *infill panel* (3.14) when setting it in a frame (see Figure A.4)

#### 3.25

#### sill

horizontal framing member positioned at the base of an area of glass, windows, panels or doors (see Figure A.1)

#### 3.26

#### spandrel area

area of a *curtain walling* (3.6) between two horizontal zones, normally between glazing and concealing the edge of the floor slab (see Figure A.9)

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#### 3.27

# spigot

#### mullion connector

profiled connecting piece shaped to provide continuity between two length of hollow profile of a framing member (see Figure A.2)

#### 3.28

#### splice sleeve

connector between two neighbouring modules of unitized construction (3.34) (see Figure A.10)

#### 3.29

#### starting sill

horizontal framing member positioned under the lowest module(s) in *unitized construction* (3.34) that the module(s) clip(s) into (see Figure A.10)

#### 3.30

#### stick construction

carrier framework of site assembled components supporting glass, insulating glass units (3.16) and infill panels (3.14) (see Figure A.5)

Note 1 to entry: Referred to as "stick curtain walling".

#### 3.31

#### thermal break

element of low thermal conductivity incorporated into an assembly to reduce the flow of heat between more conductive materials (see Figure A.2 and Figure A.3)

#### 3.32

#### transom

horizontal framing member of a curtain walling (3.6) (see Figure A.1, Figure A.2 and Figure A.3)

#### 3.33

#### transom connector

#### cleat

profiled connector shaped for installation within the hollow cavity of a *transom* (3.32) for connection to a mullion (3.20) (see Figure A.2)

Note 1 to entry: Term "shear block" is also used in some countries.

### 3.34

#### unitized construction

pre-assembled, interlinking, storey height or multi-storey height facade modules, complete with *infill* panels (3.14) (see Figure A.6)

Note 1 to entry: Referred to as "unitized curtain walling".

#### 3.35

### vapour control layer

#### vapour barrier

layer comprising a material or coating with greater resistance to vapour transmission than the other layers of the wall and designed to control vapour movement through the wall

# 3.36

#### vision area

transparent zone of the *curtain walling* (3.6) that admits daylight and allows visual communication through (see Figure A.9)

Note 1 to entry: The vision area of curtain walling can be influenced by other parts of the building which act as obstacles, e.g. solid walls, screens, or viewing angle.

# **Annex A** (informative)

# Illustration of the various defined terms

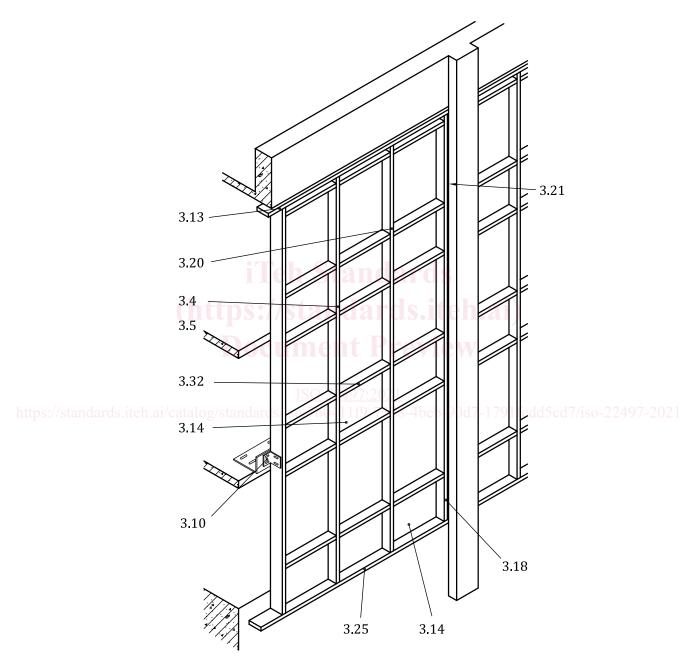


Figure A.1 — Examples of components

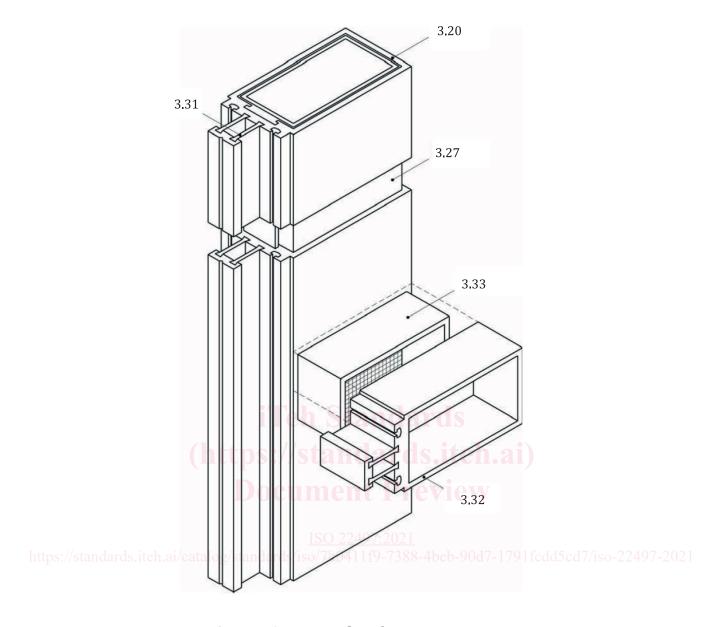


Figure A.2 — Examples of components