

## SECTION E — FIXED CONSTRUCTIONS

## E06 DOORS, WINDOWS, SHUTTERS, OR ROLLER BLINDS, IN GENERAL; LADDERS

**E06B FIXED OR MOVABLE CLOSURES FOR OPENINGS IN BUILDINGS, VEHICLES, FENCES, OR LIKE ENCLOSURES, IN GENERAL, e.g. DOORS, WINDOWS, BLINDS, GATES** (shades or blinds for greenhouses A01G 9/22; curtains A47H; lids for car boots or bonnets B62D 25/10; sky-lights E04B 7/18; sunshades, awnings E04F 10/00)

**Note(s)**

1. This subclass does not cover combinations of wings or frames with operating, mounting, latching or locking means of the type found in class E05, which are covered by the relevant subclasses of class E05, except such as are covered by groups E06B 7/086, E06B 9/00, or E06B 11/02 of this subclass.
2. In this subclass, the following terms or expressions are used with the meanings indicated:
  - "wing" means a swingable, slidable or otherwise movable member such as a door or window, for closing an opening;
  - "wing frame" means the peripheral edge or edges which define the outer border of the wing.
3. For vehicle door or window arrangements, attention is drawn to Note (1) following the title of subclass B60J.

**Subclass index**

BORDER CONSTRUCTIONS.....	1/00
ELEMENTS FOR CLOSING OPENINGS.....	3/00, 5/00
SPECIAL ARRANGEMENTS.....	7/00, 9/00
MEANS ALLOWING PASSAGE THROUGH FENCES.....	11/00

<b>1/00</b>	<b>Border constructions of openings in walls, floors, or ceilings; Frames to be rigidly mounted in such openings</b> (E06B 5/00 takes precedence; features relating also to inner frames or wing frames, features relating solely to the mounting of inner frames E06B 3/00; corner joints or edge joints E06B 3/96) <b>[4]</b>	1/30	• • • composed of several parts with respect to the cross-section of the frame itself
		1/32	• • Frames composed of parts made of different materials
		1/34	• • Coverings, e.g. protecting against weather, for decorative purposes
1/02	• Base frames, i.e. template frames for openings in walls or the like, provided with means for securing a further rigidly-mounted frame; Special adaptations of frames to be fixed therein	1/36	• • Frames uniquely adapted for windows
		1/38	• • • for shop-, show- or like large windows
1/04	• Frames for doors, windows, or the like to be fixed in openings (special adaptations for fixing in base frames E06B 1/02; features relating solely to the mounting of glass panes or other sheets E06B 3/00)	1/40	• • • Frames with parts removable to admit the glass (E06B 1/38 takes precedence)
1/06	• • Wooden frames	1/52	• • Frames specially adapted for doors
1/08	• • • composed of several parts with respect to the cross-section of the frame itself	1/56	• Fastening frames to the border of openings
1/10	• • • adjustable with respect to the thickness of walls	1/58	• • by filling-up the joints, e.g. by cementing
1/12	• • Metal frames	1/60	• • by mechanical means, e.g. anchoring means
1/14	• • • of special cross-section (E06B 1/18, E06B 1/22 take precedence)	1/62	• Tightening or covering joints between the border of openings and the frame (E06B 1/34 takes precedence)
1/16	• • • • Hollow frames	1/64	• • by loosely-inserted means, e.g. strip, resilient tongue
1/18	• • • composed of several parts with respect to the cross-section of the frame itself	1/66	• • by labyrinth packings
1/20	• • • • adjustable with respect to the thickness of walls	1/68	• • by profiled external parts
1/22	• • • with integral thresholds of special form	1/70	• Sills; Thresholds
1/24	• • Frames of natural stone, concrete, or other stone-like material	<b>3/00</b>	<b>Window sashes, door leaves, or like elements for closing openings; Layout of fixed or moving closures, e.g. windows; Features of rigidly-mounted outer frames relating to the mounting of wing frames</b> (E06B 5/00 takes precedence; shutters or the like E06B 9/00; glass panes C03; uniting glass sheets by fusion C03B 23/203; joining glass to glass other than by fusing or to other inorganic material C03C 27/00)
1/26	• • Frames of plastics		
1/28	• • • Hollow frames (E06B 1/30 takes precedence)	3/01	• Removable or disappearing walls for hangars or other halls, e.g. for aircraft (wall constructions E04B 2/00)

## E06B

- 3/02 • Wings made completely of glass
- 3/04 • Wing frames not characterised by the manner of movement (features relating to the manner of movement E06B 3/32)
- 3/06 • • Single frames
- 3/08 • • • Constructions depending on the use of specified materials (E06B 3/24 takes precedence)
- 3/10 • • • • of wood
- 3/12 • • • • of metal
- 3/14 • • • • • of special cross-section
- 3/16 • • • • • Hollow frames
- 3/18 • • • • of concrete or other stone-like material
- 3/20 • • • • of plastics
- 3/22 • • • • • Hollow frames
- 3/24 • • • specially adapted for double glazing (separable parts for securing panes E06B 3/64)
- 3/26 • • Compound frames, i.e. one frame within or behind another (E06B 3/263, E06B 3/28 take precedence; arrangements of movable frames E06B 3/32)
- 3/263 • • Frames with special provision for insulation [6]
- 3/267 • • • with insulating elements formed *in situ* [6]
- 3/273 • • • with prefabricated insulating elements held in position by deformation of portions of the frame members [6]
- 3/277 • • • with prefabricated insulating elements held in position by expansion of the insulating elements [6]
- 3/28 • • with additional removable glass panes or the like, framed or unframed
- 3/30 • Coverings, e.g. protecting against weather, for decorative purposes
- 3/32 • Arrangements of wings characterised by the manner of movement; Arrangements of movable wings in openings; Features of wings or frames relating solely to the manner of movement of the wing [3]
- 3/34 • • with only one kind of movement (E06B 3/48 takes precedence)
- 3/36 • • • with a single vertical axis of rotation at one side of the opening, or swinging through the opening (wings requiring lifting before opening E06B 3/52)
- 3/38 • • • with a horizontal axis of rotation at the top or bottom of the opening
- 3/40 • • • with a vertical or horizontal axis of rotation not at one side of the opening, e.g. turnover wings
- 3/42 • • • Sliding wings; Details of frames with respect to guiding
- 3/44 • • • • Vertically-sliding wings
- 3/46 • • • • Horizontally-sliding wings
- 3/48 • • Wings connected at their edges, e.g. foldable wings
- 3/50 • • with more than one kind of movement (E06B 3/48 takes precedence)
- 3/52 • • • Wings requiring lifting before opening
- 3/54 • Fixing of glass panes or like plates
- 3/56 • • by means of putty, cement, or adhesives only (E06B 3/64 takes precedence)
- 3/58 • • by means of borders, cleats, or the like (E06B 3/64 takes precedence)
- 3/60 • • • of clamping cleats of metal
- 3/62 • • • of rubber-like elastic cleats
- 3/64 • • Fixing of more than one pane to a frame
- 3/66 • Units comprising two or more parallel glass or like panes in spaced relationship, the panes being permanently secured together, e.g. along the edges (layered products essentially comprising sheet glass B32B 17/00; coating of glass C03C 17/00)
- 3/663 • • Elements for spacing panes [6]
- 3/667 • • • Connectors therefor [6]
- 3/67 • • characterised by additional arrangements or devices for heat or sound insulation [6]
- 3/673 • • Assembling the units (E06B 3/677 takes precedence) [6]
- 3/677 • • Evacuating or filling the gap between the panes; Preventing condensation in the gap between the panes (by means of spacing elements E06B 3/663); Cleaning the gap between the panes [6]
- 3/68 • Window bars
- 3/70 • Door leaves (wing frames E06B 3/04)
- 3/72 • • consisting of frame and panels
- 3/74 • • • with wooden panels
- 3/76 • • • with metal panels
- 3/78 • • • with panels of plastics
- 3/80 • • flexible
- 3/82 • • Flush doors, i.e. with completely flat surface (E06B 3/02 takes precedence)
- 3/84 • • • of plywood
- 3/86 • • • of plastics
- 3/88 • • Edge-protecting devices for door leaves (finger guards for doors or windows E06B 7/36)
- 3/90 • Revolving doors; Cages or housings therefor (turnstile E06B 11/08)
- 3/92 • Doors or windows extensible when set in position (sliding wings for windows E06B 3/42; foldable wings E06B 3/48; wall-closing devices which may be rolled up, e.g. shutters, E06B 9/08)
- 3/94 • • Doors of the bellows type
- 3/96 • • Corner joints or edge joints for windows, doors, or the like frames or wings [4]
- 3/964 • • using separate connecting pieces, e.g. T-connecting pieces (E06B 3/984, E06B 3/988, E06B 3/99 take precedence) [5]
- 3/968 • • • characterised by the way the connecting pieces are fixed in or on the frame members [5]
- 3/972 • • • • by increasing the cross-section of the connecting pieces, e.g. by expanding the connecting pieces with wedges (E06B 3/976 takes precedence) [5]
- 3/976 • • • • by deformation of the frame members [5]
- 3/98 • • • • the connecting pieces being specially adapted for drawing the frame members towards each other (E06B 3/972, E06B 3/976 take precedence) [5]
- 3/984 • • specially adapted for frame members of wood or other material worked in a similar way (E06B 3/99 takes precedence) [5]
- 3/988 • • specially adapted for frame members of sheet metal, or similar sheet material, with an open generally U-shaped cross-section, e.g. for door frame members [5]
- 3/99 • • for continuous frame members crossing each other without interruption (window bars E06B 3/68) [5]
- 5/00 Doors, windows, or like closures for special purposes; Border constructions therefor**
- 5/01 • Trap-doors
- 5/02 • for out-buildings or cellars; Other simple closures not designed to be close-fitting

- 5/04 • • with fixed wooden frames
- 5/06 • • with fixed metal frames
- 5/08 • • with fixed frames made of concrete, stone-like material, or plastics
- 5/10 • for protection against air-raid or other war-like action; for other protective purposes
- 5/11 • • against burglary [6]
- 5/12 • • against air pressure, explosion, or gas
- 5/14 • • • Gasproof doors or similar closures; Adaptation of fixed constructions therefor
- 5/16 • • Fireproof doors or similar closures; Adaptations of fixed constructions therefor
- 5/18 • • against harmful radiation (against heat E06B 5/16)
- 5/20 • for insulation against noise
- 7/00 Special arrangements or measures in connection with doors or windows** (screening or similar protective devices E06B 9/00)
- 7/02 • for providing ventilation, e.g. through double windows; Arrangement of ventilation roses (airflow control members *per se* F24F 13/08)
- 7/03 • • Ventilating devices for inserting under upwardly-sliding windows (rain or draught deflectors E06B 7/26)
- 7/04 • • with ventilation wings (E06B 7/08 takes precedence)
- 7/06 • • • with one ventilation wing only
- 7/08 • • Louvre doors, windows, or grilles
- 7/082 • • • with rigid or slidable lamellae
- 7/084 • • • with rotatable lamellae
- 7/086 • • • • interconnected for concurrent movement [2]
- 7/088 • • • • with facing protective grille or safety guard [2]
- 7/09 • • • • • mounted in movable wing, e.g. door [2]
- 7/092 • • • • • operable in two or more distinct sets [2]
- 7/094 • • • • • operable in sequence; characterised by additional independent movement [2]
- 7/096 • • • • • operated or interconnected by gearing (wing operators with gearing in general E05F 11/00) [2]
- 7/098 • • • • • with weather seal [2]
- 7/10 • • by special construction of the frame members
- 7/12 • Measures preventing the formation of condensed water (double glazing E06B 3/24-E06B 3/28, E06B 3/64, E06B 3/66; heating arrangements specially adapted for transparent or reflecting areas H05B 3/84)
- 7/14 • Measures for draining-off condensed water or water leaking-in
- 7/16 • Sealing arrangements on wings or parts co-operating with the wings (E06B 7/098 takes precedence) [2]
- 7/18 • • by means of movable edgings, e.g. draught sealings additionally used for bolting
- 7/20 • • • automatically withdrawn when the wing is opened
- 7/205 • • • • with sealing strip mounted on sill [2]
- 7/21 • • • • with sealing strip movable in plane of wing [2]
- 7/215 • • • • with sealing strip being moved to a retracted position by elastic means, e.g. springs [2]
- 7/22 • • by means of elastic edgings, e.g. elastic rubber tubes; by means of resilient edgings, e.g. felt or plush strips, resilient metal strips (E06B 7/18 takes precedence)
- 7/23 • • • Plastic, sponge rubber, or like strips or tubes
- 7/232 • • • Resilient strips of hard material, e.g. metal
- 7/24 • • without separate sealing members, e.g. with labyrinth
- 7/26 • Rain or draught deflectors, e.g. under sliding wings
- 7/28 • Other arrangements on doors or windows, e.g. door-plates, windows adapted to carry plants, hooks for window cleaners
- 7/30 • • Peep-holes; Devices for speaking through; Doors having windows
- 7/32 • • Serving doors; Passing-through doors
- 7/34 • • Doors containing cupboards (cabinets in general A47B)
- 7/36 • • Finger guards [7]
- 9/00 Screening or protective devices for openings, with or without operating or securing mechanisms; Closures of similar construction** (E06B 5/10 takes precedence; wings for doors or windows, connected at their edges, E06B 3/48; additional indoor equipment of doors or windows, not forming part of the proper finishing work of a building, e.g. curtains, A47H; gratings as building elements E04C 2/42; locks, accessories therefor E05B; bolts or fastening devices for wings E05C; operating mechanism for wings in general E05F)
- 9/01 • Grilles fixed to walls, doors, or windows; Grilles moving with doors or windows; Walls formed as grilles, e.g. claustra
- 9/02 • Shutters, movable grilles, or other safety closing devices, e.g. against burglary (louvre windows or grilles E06B 7/08; lamellar blinds E06B 9/26)
- 9/04 • • of wing type, e.g. revolving or sliding
- 9/06 • • collapsible or foldable, e.g. of the bellows or lazy-tongs type (bellows-type doors E06B 3/94; roll-type grilles E06B 9/18)
- 9/08 • • Roll-type closures (roller blinds E06B 9/40; operating, guiding or securing devices or arrangements for roll-type closures E06B 9/56; usable only as awnings E04F 10/06) [5]
- 9/11 • • • Roller shutters [5]
- 9/13 • • • • with closing members of one piece, e.g. of corrugated sheet metal [5]
- 9/15 • • • • with closing members formed of slats or the like [5]
- 9/165 • • • • • with slats disappearing in each other; with slats the distance between which can be altered [5]
- 9/17 • • • • Parts or details of roller shutters, e.g. suspension devices, shutter boxes, wicket doors, ventilation openings [5]
- 9/171 • • • • • Rollers therefor; Fastening roller shutters to rollers [5]
- 9/172 • • • • • by clamping bars
- 9/173 • • • • • by clasps or buttons
- 9/174 • • • • • Bearings specially adapted therefor [5]
- 9/18 • • • Roll-type grilles [5]
- 9/24 • Screens or other constructions affording protection against light, especially against sunshine; Similar screens for privacy or appearance (operating, guiding or securing devices or arrangements for roll-type closures E06B 9/56; free-hanging flexible screens A47H 23/00)
- 9/26 • • Lamellar or like blinds, e.g. venetian blinds
- 9/262 • • • with flexibly-interconnected horizontal or vertical strips; Concertina blinds
- 9/264 • • • Combinations of lamellar blinds with roller shutters, screen windows, windows, or double panes; Lamellar blinds with special devices
- 9/266 • • • Devices or accessories for making or mounting lamellar blinds or parts thereof [3]

## E06B

- 9/28 • • • with horizontal lamellae, e.g. non-liftable (louvre windows or gratings E06B 7/08)
- 9/30 • • • • liftable
- 9/302 • • • • • without ladder-tape, e.g. with lazy-tongs, with screw spindle
- 9/303 • • • • • with ladder-tape
- 9/304 • • • • • • with tilting bar and separate raising shaft
- 9/305 • • • • • • with tilting bar and raising cords guided along fixed bar
- 9/306 • • • • • • with tilting bar along which the raising cords are guided
- 9/307 • • • • • • Details of tilting bars or their operation
- 9/308 • • • • • • with coaxial tilting bar and raising shaft
- 9/32 • • • • • Operating, guiding, or securing devices therefor (operation of tilting bars E06B 9/307)
- 9/322 • • • • • • Details of operating devices, e.g. pulleys, brakes, spring drums, drives (devices of general interest specially adapted or mounted for storing and repeatedly paying-out and re-storing lengths of material B65H 75/34)
- 9/323 • • • • • • Structure or support of upper box
- 9/324 • • • • • • Cord-locks
- 9/325 • • • • • • Immobilising devices preventing raising
- 9/326 • • • • • • Details of cords, e.g. buckles, drawing knobs
- 9/327 • • • • • • Guides for raisable lamellar blinds with horizontal lamellae
- 9/34 • • • • roller type
- 9/36 • • • with vertical lamellae
- 9/38 • • • Other details
- 9/382 • • • • Details of ladder-tapes or ladder-chains, e.g. buckles for local shortening of tapes
- 9/384 • • • • Details of interconnection or interaction of tapes and lamellae
- 9/386 • • • • Details of lamellae
- 9/388 • • • • Details of bottom or upper slats or their attachment
- 9/40 • • Roller blinds (usable only as awnings E04F 10/06) [5]
- 9/42 • • • Parts or details of roller blinds, e.g. suspension devices, blind boxes (brackets or adjustable mountings for roller blinds and drawable curtains A47H 1/13) [5]
- 9/44 • • • • Rollers therefor; Fastening roller blinds to rollers [5]
- 9/46 • • • • • by clamping bars [5]
- 9/48 • • • • • by clasps or buttons [5]
- 9/50 • • • • Bearings specially adapted therefor [5]
- 9/52 • • • Devices affording protection against insects, e.g. fly screens; Mesh windows for other purposes
- 9/54 • • • Roller fly screens (operating, guiding or securing devices therefor E06B 9/56) [2, 5]
- 9/56 • • • Operating, guiding or securing devices or arrangements for roll-type closures; Spring drums; Tape drums; Counterweighting arrangements therefor (devices of general interest specially adapted or mounted for storing and repeatedly paying-out and re-storing lengths of material B65H 75/34) [5]
- 9/58 • • • Guiding devices [5]
- 9/60 • • • Spring drums operated only by closure members [5]
- 9/62 • • • Counterweighting arrangements (E06B 9/60 takes precedence) [5]
- 9/64 • • • with lowerable roller [5]
- 9/66 • • • with a roller situated at the bottom [5]
- 9/68 • • • Operating devices or mechanisms, e.g. with electric drive [5]
- 9/70 • • • • comprising an electric motor positioned outside the roller [5]
- 9/72 • • • • comprising an electric motor positioned inside the roller [5]
- 9/74 • • • • adapted for selective electrical or manual operation [5]
- 9/76 • • • • using crank handles [5]
- 9/78 • • • • for direct manual operation, e.g. by tassels, by handles [5]
- 9/80 • • • Safety measures against dropping or unauthorised opening; Braking or immobilising devices; Devices for limiting unrolling (securing devices or arrangements for direct manual operation E06B 9/78) [5]
- 9/82 • • • • automatic [5]
- 9/84 • • • • • against dropping [5]
- 9/86 • • • • • against unauthorised opening [5]
- 9/88 • • • • • for limiting unrolling [5]
- 9/90 • • • • • for immobilising the closure member in various chosen positions [5]
- 9/92 • • • Means allowing the closures to be shifted out of the plane of the opening [5]
- 11/00 Means for allowing passage through fences, barriers, or the like, e.g. stiles** (general features of doors E06B 1/00-E06B 9/00)
- 11/02 • • Gates; Doors
- 11/04 • • • characterised by the kind of suspension (suspensions *per se* E05D)
- 11/06 • • • characterised by the kind of fastening (fastening devices for wings E05C)
- 11/08 • • • Turnstiles (on vehicles B60N 5/00; with registering means G07C 9/02)