

37 Building structures and construction

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- 37a Supporting and space enclosing structures; drying and insulating arrangements; repair of damaged buildings
 - 37a (IPC: E04B) General building constructions; Walls; Roofs; Ceilings; Insulation and other protection of buildings
 - 37b Stone, wood and iron structural elements; wood, iron, or reinforced-concrete columns, beams and posts; stone, wood and iron connecting elements; insulating casings
 - 37b (IPC: E04C) Structural elements; Building materials
 - 37c Roof coverings, including dormer windows, skylights and roof drainage arrangements
 - 37c (IPC: E04D) Roof coverings; Sky-lights; Gutters; Roof-working tools
 - 37d Interior and exterior building structures
 - 37d (IPC: E04F) Finishing work on buildings
 - 37e Scaffolds
 - 37e (IPC: E04G) Scaffolding; Forms; Shuttering; Building implements and other building aids, and their use; Handling building materials on the site; Repairing, breaking-up and other work on existing buildings
 - 37f Residential and commercial building structures
 - 37f (IPC: E04H) Buildings or like structures for special purposes; Masts; Fencing
 - 37g1 (IPC: E06B) Doors, windows, shutters, or roller blinds in general
 - 37g2 (IPC: E06C) Ladders

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- 37a Supporting and space enclosing structures, e.g. ceilings, walls, roofs; drying and insulating arrangements; repair of damaged buildings
 - Ceilings**
 - 37a-1 Load-bearing ceilings of shapes and slabs (37b-1/01 – 37b-1/03; 37b-2/01; 37b-2/02)
 - 37a-2 Concrete and reinforced-concrete load-bearing ceilings, hollow-brick ceilings, glass rein-forced-concrete ceilings (37b-1/01 – 37b-3/03; 37b-4/01; 37d-33/01; 80a-51)
 - 37a-3 False ceilings, plastered ceilings, plaster supports and plaster mesh (7d-6; 25b-20/01 – 25b-20/03; 37d-33/01; 80a-51; 86e)
 - Walls**
 - 37a-4 Shape and slab walls, including the columns and pillars to be constructed in the structure; collapsible partitions (37f-4)
 - 37a-5 Walls of plain concrete, reinforced concrete, glass concrete, clay, including columns and pillars to be constructed in the structure and slab or brick permanent forms (removable forms 37e-9/01 – 37e-11/05, 37b-1/01 – 37b-4/01, 80a-51, 80b-16/01; auxiliary devices 37e-13/01 – 37e-13/04)

Roofs

37a-6 Roofs of wood, iron, tile, plain concrete, reinforced concrete, etc. (roof trusses 37b-3/01 – 37b-3/03; roof covering 37c, 37d-26/01, 37f-1/01 – 37f-2/04, 37f-4)

Building protection and repair of damaged buildings

37a-7/01 Structural means for preventing the transmission of moisture, heat, fire, and sound (structural devices improving the acoustic effect 36d-6/07, 37f-1/02; on railways 19a-1/03, 19a-9/00, 19a-21/00; building elements designed for insulation purposes 37b-6, 38h, 47a-16; insulation materials, in general 47f, 80b)

37a-7/02 Preventive measures against dry rot (38h)

37a-7/03 Shock-resisting devices, burglar-proof walls and ceilings (independent devices protecting against shelling and bombing 72g-7/01 – 72g-7/02)

37a-7/04 Apparatus for drying existing or new buildings (82a)

37a-7/05 Repair of damaged buildings (re-strengthening of concrete and masonry by chemical means 84c-6, 84c-3/14)

37a (IPC: E04B) General building constructions; Walls; Roofs; Ceilings; Insulation and other protection of buildings (border constructions of openings for doors, windows or the like 37g2-1/00)

37a-1/00 Constructions in general; Structures which are not restricted either to walls or floors or ceilings or roofs (scaffolds, shutterings 37f; structures specially adapted for buildings for special purposes, general layout of buildings, e.g. modular co-ordination, 37f; the particular parts of buildings, see the relevant groups for those parts)

37a-1/02 . Structures consisting primarily of load-supporting, block-shaped, or slab-shaped elements (37a-1/32 to 37a-1/36 take precedence)

37a-1/04 . . the elements consisting of concrete, e.g. reinforced concrete, or other stone-like material

37a-1/06 . . . the elements being prestressed

37a-1/08 . . the elements consisting of metal

37a-1/10 . . the elements consisting of wood

37a-1/12 . . the elements consisting of another material

37a-1/14 . . the elements being composed of two or more materials (of reinforced concrete 37a-1/04)

37a-1/16 . Structures made from masses, e.g. of concrete, cast or similarly formed in situ with or without making use of additional elements, such as permanent forms, substructures to be coated with load-bearing material (37a-1/32 to 37a-1/36 take precedence)

37a-1/18 . Structures comprising elongated load-supporting parts, e.g. columns, girders, skeletons (37a-1/32 to 37a-1/36 take precedence; elongated load-supporting parts as elements, trusses, truss-like structures 37b-3/00)

37a-1/20 . . the supporting parts consisting of concrete, e.g. reinforced concrete, or other stone-like material

37a-1/22 . . . with parts being prestressed

37a-1/24 . . the supporting parts consisting of metal

37a-1/26 . . the supporting parts consisting of wood

37a-1/28 . . the supporting parts consisting of another material

37a-1/30 . . the supporting parts being composed of two or more materials; Composite steel and concrete construction (of reinforced concrete 37a-1/20)

37a-1/32 . Arched structures; Vaulted structures; Folded structures (vaulted roofs 37a-7/08)

37a-1/34 . Extraordinary structures, e.g. with suspended or cantilever parts supported by masts or tower-like structures enclosing elevators or stairs; Features relating to the elastic stability (37a-1/342, 37a-1/343, 37a-1/348 take precedence; for floors 37a-5/43; buildings for special purposes, e.g. withstanding earthquake, 37f)

37a-1/342 . Structures covering a large free area, whether open-sided or not, e.g. hangars, halls (roof trusses 37b-3/00; non-structural features for specified purposes, see the relevant groups of 37f)

- 37a-1/343 . Structures characterised by movable, separable, or collapsible parts, e.g. for transport (movable roof parts 37a-7/16; floatable buildings 65a; small prefabricated buildings, transportable as a whole, 37f-1/12; small garages 37f-6/02)
- 37a-1/344 . . with hinged parts
- 37a-1/345 . . Inflated or air-supported structures (inflatable forms 37e-11/04)
- 37a-1/346 . . Rotary buildings; Buildings with rotary units, e.g. rooms
- 37a-1/347 . . Tent-like buildings, i.e. with flexible skins suspended from, or resting on, supports; Tents for building-like purposes, e.g. marquees
- 37a-1/348 . Structures composed of units comprising at least considerable parts of two sides of a room, e.g. box-like or cell-like units closed or in skeleton form (wall units locating conduits or the like 37b-2/52)
- 37a-1/35 . Extraordinary methods of construction, e.g. lift-slab, jack-block (37a-1/34 takes precedence; falsework, shuttering 37e-11/00; conveying or assembling of building materials 37e-21/00; working measures on existing buildings 37e-23/00)
- 37a-1/36 . Bearings or like supports allowing movement (for bridges 19d-19/04; buildings withstanding earthquakes 37f-9/02)
- 37a-1/38 . Connections for building structures in general (specially adapted for particular parts, see the groups for those parts, for special elements 37b)
- 37a-1/40 . . Separate connecting elements (for forms, falsework, or shutterings 37e-17/00; releasable clips or clamps, hooks, wedges, wall-dowels, nails, bolts, rivets, screws, wood-screws 47a1)
- 37a-1/42 . . . pin-shaped
- 37a-1/44 . . . Lashings, i.e. elements normally requiring separate means, e.g. bolts, for fixing the parts to be connected
- 37a-1/46 . . . Hooks; Clamping rings; Clips
- 37a-1/48 . . . Dowels, i.e. members adapted to penetrate the surfaces of two parts and to take the shear stresses
- 37a-1/50 of flat shape, e.g. ring dowels or claw dowels
- 37a-1/52 of tubular or cylindrical shape
- 37a-1/41 . . . Connecting devices designed for being embedded in concrete or masonry (spacers for cavity walls 37a-2/30, 37a-2/44; connectors for reinforcing elements 37b-5/16; fastening frames to the border of openings 37g1-1/56)
- 37a-1/48 . . . Dowels, i.e. members adapted to penetrate the surfaces of two parts and to take the shear stresses
- 37a-1/49 with self-penetrating parts, e.g. claw dowels
- 37a-1/54 . . Joints substantially without separate connecting elements, e.g. jointing by interengagement
- 37a-1/56 . . Connections not provided for in groups 37a-1/40 to 37a-1/54
- 37a-1/58 . . . of bar-shaped building elements
- 37a-1/60 . . . of slab-shaped building elements mutually or with other building parts
- 37a-1/62 . Insulation or other protection; Elements and use of specified material therefor (chemical compositions see the relevant classes; implements for applying insulation or sealings 37d-21/00; constructions of particular parts of buildings, see the relevant groups for those parts)
- 37a-1/64 . . for making damp-proof; Protection against corrosion (sealings 1/66)
- 37a-1/66 . . Sealings (bituminous sealing masses 39b6; against ground humidity or ground water 84c-31/02; coverings against rain or other precipitations of the atmosphere 37c; composition of material or manufacture of sealing foils, see the relevant classes for these foils)
- 37a-1/68 . . . of joints, e.g. dilatation joints
- 37a-1/70 . . Drying or keeping dry, e.g. by air vents (by sealings 37a-1/66; during erection 37e-21/28)
- 37a-1/72 . . Pest control (by keeping dry 37a-1/70; impregnation of wood or like materials 38h)
- 37a-1/74 . . Heat, sound or noise insulation, absorption, or reflection (forms of, or arrangements in, rooms for influencing or directing sound 37a-1/99); Other building methods affording favourable thermal or acoustical conditions, e.g. accumulating of heat within walls (fire protection 37a-1/94; elements chiefly adapted for structural purposes 37b-1/00, 37b-2/00; chiefly adapted for surface covering 37d-13/00; as underlayers for floor coverings 37d-15/18; closures for wall or like openings 37g1)

37a-1/76	. . . specifically with respect to heat only (heat insulation in general 47f1-59/00)
37a-1/78	. . . . Heat insulating elements
37a-1/80	. . . . slab-shaped
37a-1/82	. . . specifically with respect to sound only (of floors of ceilings 37a-5/52; of flooring 37d-15/20; noise damping in ducts or channels 37d-17/00)
37a-1/84	. . . . Sound-absorbing elements
37a-1/86	. . . . slab-shaped
37a-1/88	. . . Insulating elements for both heat and sound
37a-1/90	. . . . slab-shaped
37a-1/92	. . Protection against other undesired influences or dangers (buildings providing protection against external dangers 37f-9/00)
37a-1/94	. . . against incendiary damage (fire-fighting 61a-11/00 – 61a-11/22; impregnation of wood or like materials 38h)
37a-1/96	. . . against dangerous radiation (special material compositions in the relevant classes, e.g. 80b, 61b; by electrical means 21g-22 – 21g-25; screens against solar radiation 37g1; nuclear physics 21g4)
37a-1/98	. . . against vibrations or shocks (on foundations 84c-31/00); against mechanical destruction, e.g. by air-raids (against incendiary damage only 37a-1/94; finishing work therefor 37d; buildings withstanding earthquake or the like, shelters, arrangements of splinter-catching walls 37f-9/00)
37a-1/99	. Room acoustics, i.e. forms of, or arrangements in, rooms for influencing or directing sound (37a-1/82 takes precedence)
37a-2/00	Walls or partitions for buildings; Wall construction with regard to insulation; Connections specially adapted to walls (insulation per se 37a-1/62; connections in general 37a-1/38; elements for walls 37b-1/04, 37b-2/00)
37a-2/02	. built-up from layers of building elements
37a-2/04	. . Walls having neither cavities between, nor in, the solid elements
37a-2/06	. . . using elements having specially-designed means for stabilising the position
37a-2/08	. . . . by interlocking of projections or inserts with indentations, e.g. of tongues, grooves, dovetails
37a-2/10	. . . . by filling material with or without reinforcements in small channels in, or in grooves between, the elements
37a-2/12	. . . using elements having a general shape differing from that of a parallelepiped
37a-2/14	. . Walls having cavities in, but not between, the elements, i. e. each cavity being enclosed by at least four sides forming part of one single element
37a-2/16	. . . using elements having specially designed means for stabilising the position
37a-2/18	. . . . by interlocking of projections or inserts with indentations, e.g. of tongues, grooves, dovetails
37a-2/20	. . . . by filling material with or without reinforcements in small channels in, or in grooves between, the elements
37a-2/22	. . . using elements having a general shape differing from that of a parallelepiped
37a-2/24	. . . the walls being characterised by fillings in some of the cavities forming load-bearing pillars or beams
37a-2/26	. . . the walls being characterised by fillings in all cavities in order to form a wall construction
37a-2/28	. . Walls having cavities between, but not in, the elements; Walls of elements each consisting of two or more parts kept in distance by means of spacers, all parts being solid
37a-2/30	. . . using elements having specially designed means for stabilising the position; Spacers for cavity walls
37a-2/32	. . . . by interlocking of projections or inserts with indentations, e.g. of tongues, grooves, dovetails
37a-2/34	. . . . by filling material with or without reinforcements in small channels in, or in grooves between, the elements
37a-2/36	. . . using elements having a general shape differing from that of a parallelepiped
37a-2/38	. . . the walls being characterised by fillings in some of the cavities forming load-bearing pillars or beams

- 37a-2/40 . . . the walls being characterised by fillings in all cavities in order to form a wall construction
- 37a-2/42 . . Walls having cavities between, as well as in, the elements; Walls of elements each consisting of two or more parts, kept in distance by means of spacers, at least one of the parts having cavities
- 37a-2/44 . . . using elements having specially designed means for stabilising the position; Spacers for cavity walls
- 37a-2/46 by interlocking of projections or inserts with indentations, e.g. of tongues, grooves, dovetails
- 37a-2/48 by filling material with or without reinforcements in small channels in, or in grooves between, the elements
- 37a-2/50 . . . using elements having a general shape differing from that of a parallelepiped
- 37a-2/52 . . . the walls being characterised by fillings in some of the cavities forming load-bearing pillars or beams
- 37a-2/54 . . . the walls being characterised by fillings in all cavities in order to form a wall construction
- 37a-2/56 . Walls or partitions of frame-work or pillar-work; Walls incorporating load-bearing elongated members (37a-2/74, 37a-2/88 take precedence; pillars 37b-3/30)
- 37a-2/58 . . with elongated members of metal
- 37a-2/60 . . . characterised by special cross-section of the elongated members
- 37a-2/62 the members being formed of two or more elements in side-by-side relationship
- 37a-2/64 . . with elongated members of concrete
- 37a-2/66 . . . characterised by special cross-section of the elongated members
- 37a-2/68 . . . made by filling-up wall cavities (37a-2/24, 37a-2/38, 37a-2/52 take precedence)
- 37a-2/70 . . with elongated members of wood
- 37a-2/72 . Walls or partitions of elements of relatively thin form (37a-2/56, 37a-2/74, 37a-2/88 take precedence; with joint fillings acting as framework or pillars 37a-2/68; elements 37b-2/00)
- 37a-2/74 . Removable non-load-bearing partitions; Partitions with a free upper edge (framed panels 37b-2/38)
- 37a-2/76 . . with framework or posts of metal
- 37a-2/78 . . . characterised by special cross-section of the frame members
- 37a-2/80 . . with framework or posts of wood
- 37a-2/82 . . characterised by the manner in which edges are connected to the building; Means therefor; Special details of easily-removable partitions
- 37a-2/84 . Walls made by casting, pouring, or tamping in situ (37a-2/02, 37a-2/56 take precedence; forms therefor 37e-11/06; working of concrete or similar masses able to be cast or poured in situ 37e-21/02)
- 37a-2/86 . . made in permanent forms
- 37a-2/88 . Curtain walls
- 37a-3/00** **Walls or partitions for buildings; Constructions of walls with regard to insulation; Connections uniquely adapted therefor** (walls comprising only elements of similar special shape connected only by interengaging and/or by bonding together abutting surfaces 37b-1/00)
- 37a-3/02 . built-up by layers of building elements
- 37a-3/04 . . without joint fillings (37a-3/16 takes precedence)
- 37a-3/06 . . . with anchoring means
- 37a-3/08 . . with joint fillings (37a-3/16 takes precedence)
- 37a-3/10 . . . with reinforcements in the joints
- 37a-3/12 . . . with special design of joints
- 37a-3/14 . . . with reinforcements in the joints and with special design of joints
- 37a-3/16 . . with full through cavities and fillings in the cavities
- 37a-3/18 . . . with reinforcements through the cavities
- 37a-3/20 . Frame-work or pillar-work walls or partitions (37a-3/32 takes precedence; pillars 37b-3/30)
- 37a-3/22 . . with framework or pillars of metal
- 37a-3/24 . . with framework or pillars of concrete
- 37a-3/26 . . . made by filling-up wall cavities (filled cavity walls 37a-3/16)

37a-3/28	. . with wooden framework or pillars
37a-3/30	. Walls or partitions or elements as high as or higher than the room (37a-3/20, 37a-3/32 take precedence; with joint fillings acting as framework or pillars 37a-3/22; elements 37b-1/74)
37a-3/32	. Partitions with a free upper edge (framed panels 37b-1/78)
37a-3/34	. Walls made by casting, pouring, or tamping in situ (working of concrete or similar masses able to be cast or poured in situ 37e-21/01; forms therefor 37e-11/06)
37a-3/36	. . made in permanent forms (permanent form elements 37b-1/00)

37a-5/00 Floors; Ceilings; Constructions of floors or ceilings with regard to insulation; Connections uniquely adapted therefor (elements for floors, e.g. stones, filling bodies, girders for floors, 37b; floors or ceilings comprising only elements of similar special shape connected only by interengaging and/or by bonding together abutting surfaces 37b; flooring as finishing work 37d-15/00)

Note:

"Load-carrying floor structure" means the structure (lying more or less in a horizontal plane) by which the weight of the flooring or ceiling and any load carried thereby is transmitted to the walls or pillars of the building. It may or may not have a surface extending over its whole area, and may or may not require flooring on its upper side or a ceiling on its underside.

37a-5/02	. Load-carrying floor structures formed substantially of prefabricated units, spaced apart or not (37a-5/44 to 37a-5/48 take precedence)
37a-5/04	. . with concrete beams (37a-5/08, 37a-5/14 take precedence)
37a-5/06	. . . placed against one another
37a-5/08	. . assembled of block-shaped elements, e.g. hollow stones (37a-5/14 takes precedence)
37a-5/10	. . with metal beams or girders, e.g. with steel lattice girders (37a-5/14 takes precedence)
37a-5/12	. . with wooden beams (37a-5/14 takes precedence)
37a-5/14	. . with beams or girders laid in two directions
37a-5/16	. Load-carrying floor structures cast or similarly formed in situ (37a-5/44 to 37a-5/48 take precedence; with load-carrying structures with prefabricated beams 37a-5/02)
37a-5/18	. . with spaced integral stiffening ribs or other beam-like formations
37a-5/20	. . . without members filling or covering the space between the ribs or the like (37a-5/28 takes precedence)
37a-5/22	. . . with members filling or covering the space between the ribs or the like, e.g. with form-bodies remaining part of the floor (37a-5/28 takes precedence, re-usable forms 37e)
37a-5/24	. . . . with hollow or trough-shaped filling or covering members
37a-5/26	. . . . with solid filling or covering members, e.g. of light-weight concrete or materials of vegetable origin
37a-5/28	. . . Cross-ribbed floors
37a-5/30	. . . . with members filling or covering the space between the ribs or the like, e.g. with form-bodies remaining part of the floor
37a-5/32	. . without spaced integral stiffening ribs or other beam-like formations, i.e. plate floors
37a-5/34	. . . without form units or covering units as part of the floor
37a-5/36	. . . with form units or covering units as part of the floor. e.g. with light-weight plastic form-slabs
37a-5/38	. . . . with slab-shaped form units acting simultaneously as reinforcement
37a-5/40	. . . . with metal form slabs
37a-5/42	. . specially designed for resting on columns only
37a-5/44	. Floors composed of stones, mortar, and reinforcing elements (with inserts of glass 37a-5/46)
37a-5/46	. Special adaptations of floors for transmission of light, e.g. by inserts of glass
37a-5/48	. Special adaptations of floors for incorporating ducts, e.g. for heating or ventilating
37a-5/50	. Ceilings (coverings therefor 37d-13/00)

Note:

The term "ceiling" includes all the finishing material concealing the underside of the load-carrying structure or roof structure.

- 37a-5/52 . . Constructions of ceilings (37a-5/56 – 37a-5/62 take precedence; ceilings used as forms for making floors, see the relevant groups for the floors)
- 37a-5/54 . . . comprising slabs or sheets, e.g. mats of fibrous material
- 37a-5/56 . . Special details of pendant ceilings
- 37a-5/58 . . . Suspension means adjustable in vertical or horizontal direction
- 37a-5/60 . . supported only at the edges
- 37a-5/62 . . Translucent sub-ceilings, e.g. glass ceilings
- 37a-5/00 Floors; Ceilings; Constructions of floors or ceilings with regard to insulation; Connections uniquely adapted therefor** (elements for floors, e.g. bricks, stones, filling bodies, girders for floors, 37b; flooring as finishing work, insulation of flooring, sectional false floors, e.g. for computers, 37d-15/024)
- 37a-5/02 . Load-carrying floor structures formed substantially of prefabricated units (37a-5/43 to 37a-5/48 take precedence; floors merely characterised by the filling members 37b-1/34)
- 37a-5/04 . . with beams of concrete or other stone-like material, e.g. asbestos cement (37a-5/08, 37a-5/14 take precedence)
- 37a-5/06 . . . placed against one another
- 37a-5/08 . . assembled of block-shaped elements, e.g. hollow stones (37a-5/14 takes precedence; floors composed of reinforced brickwork 37a-5/44)
- 37a-5/10 . . with metal beams or girders, e.g. with steel lattice girders (37a-5/14 takes precedence)
- 37a-5/12 . . with wooden beams (37a-5/14 takes precedence)
- 37a-5/14 . . with beams or girders laid in two directions
- 37a-5/16 . Load-carrying floor structures wholly or partly cast or similarly formed in situ (37a-5/43 to 37a-5/48 take precedence; floors merely characterised by the prefabricated elements 37b)
- 37a-5/17 . . Floor structures partly formed in situ
- 37a-5/18 . . . with stiffening ribs or other beam-like formations wholly cast between filling members
- 37a-5/19 the filling members acting as self-supporting permanent forms (37a-5/21 takes precedence)
- 37a-5/21 Cross-ribbed floors
- 37a-5/23 . . . with stiffening ribs or other beam-like formations wholly or partly prefabricated (with all load-carrying parts substantially consisting of prefabricated units 37a-5/02)
- 37a-5/26 with filling members between the beams (37a-5/28 takes precedence)
- 37a-5/28 Cross-ribbed floors
- 37a-5/29 the prefabricated parts of the beams consisting wholly of metal (37a-5/28 takes precedence)
- 37a-5/32 . . Floor structures wholly cast in situ with or without form units or reinforcements
- 37a-5/36 . . . with form units as part of the floor
- 37a-5/38 with slab-shaped form units acting simultaneously as reinforcement; Form slabs with reinforcements extending laterally outside the element
- 37a-5/40 with metal form slabs
- 37a-5/43 . Floor structures of extraordinary design; Features relating to the elastic stability; Floor structures specially designed for resting on columns only, e.g. mushroom floors (extraordinary constructions in general 37a-1/34)
- 37a-5/44 . Floors composed of stones, mortar, and reinforcing elements (with inserts of glass 37a-5/46)
- 37a-5/46 . Special adaptations of floors for transmission of light, e.g. by inserts of glass (of ceilings 37a-5/62; block-shaped elements 37b-1/42; slab- or sheet-shaped elements 37b-2/54; for roof covering 37a-3/06)
- 37a-5/48 . Special adaptations of floors for incorporating ducts, e.g. for heating or ventilating (in block-shaped elements 37b-1/39; in slab- or sheet-shaped elements 37b-2/52)

37a-5/52 . . . Constructions of ceilings, e.g. false ceilings (ceilings used as forms for making floors, see the relevant groups for the floors; ceilings formed as a simple covering or lining 37d-13/00)

Note:

The term "ceiling" includes all the finishing material concealing the underside of the load-carrying structure or roof structure.

37a-5/54 . . . comprising slabs, sheets, or the like (37a-5/58 to 37a-5/62 take precedence; slabs, sheets, or the like per se 37b-2/00)

37a-5/55 . . . Construction of supporting means therefor, e.g. framework

37a-5/57 Means for connecting slabs or sheets to their supports (connections for building structures in general 37a-1/38 to 37a-1/60, especially 37a-1/60)

37a-5/58 . . . Suspension means adjustable in vertical or horizontal direction

37a-5/60 . . . supported only at the edges

37a-5/62 . . . Translucent sub-ceilings, e.g. glass ceilings, grid-like ceilings

37a-7/00 **Roofs** (ceilings 37a-5/52; structures for roofs as well as for floors 37a-5/00; roof covering 37c; roof trusses, truss-like structures, joists 37b-3/02; self-supporting roof slabs 37b-2/50; floating roofs for containers 37f-7/12)

37a-7/02 . . with plane sloping surfaces, e.g. saddle roofs (37a-7/12 takes precedence)

37a-7/04 . . supported by horizontal beams or the equivalent resting on the walls (37a-7/06 takes precedence)

37a-7/06 . . Constructions of roof intersections or hopped ends

37a-7/08 . . Vaulted roofs (37a-7/14 takes precedence; vaulted structures in general 37a-1/32; inflatable roofs 37a-1/345; inflatable forms 37e-11/04)

37a-7/10 . . Shell structures, e.g. of hyperbolic-parabolic shape; Grid-like formations acting as shell structures; Folded structures

37a-7/12 . . formed in bays, e.g. saw-tooth roofs (37a-7/10 takes precedence)

37a-7/14 . . Suspended roofs (tent-like buildings, e.g. with flexible skins acting as part of the structure, 37a-1/347)

37a-7/16 . . Roof structures with movable roof parts (buildings for special purposes 37f)

37a-7/18 . . Special structures in or on roofs, e.g. dormer windows (in connection with roof coverings 37a-13/00, especially domes 37a-13/03)

37b **Stone, wood and iron structural elements, e.g. building stones, slabs, supports; wood, iron, or reinforced-concrete columns, beams and posts; stone, wood and iron connecting elements; insulating casings**

37b-1/01 Building bricks, shape design (chimney bricks 37f-5; chimney pots 24i-9, 24i-10, 37a, 80a-43 – 80a-56/20, 77f-23, 5c-8; 5c-9/01; paving stones 19c-1 – 19c-6/01, 19c-5/00; roofing tiles 37c-1/01 – 37c-1/06, 37c-4)

37b-1/02 Building bricks, material composition (37a-1 – 37a-6; 80b-7 – 80b-25/16)

37b-1/03 Glass blocks (37a-2; 37a-5; 37c-8/01 – 37c-9/02; 32a-8; 32a-17; 32a-27; 32a-9/00; 32a-11/00; 32a-23/00; 32b)

37b-2/01 Building slabs, e.g. steel, aluminium etc. sheets, insofar as the physical characteristics and the external shape of the building slab supplied to the building site in a finished state are concerned; facing and supporting building slabs

37b-2/02 Building slabs of various materials, multilayer slabs (processes for the production of the material, mixing proportions, material composition 80b-7 – 80b-25/16; 38l)

37b-3/01 Beams, roof and hall trusses, columns, pillars, posts, masts and poles of stone, wood, iron and various materials, masthead structures, mast bases, foundations for masts (7a; 7b; 19d; 21c-12; 37e-1; 62a-5; 62a-6; 62b-24/01 – 62b-04; 63a-11/03; 63a-36; 63c-37; 63c-43; 77f-23; 80a-51; 80a-56/10; foundation piles 84c-2; 84c-5/00; collapsible and portable towers and scaffoldings 37f-4, 37f-7/05; fence post 37d-36/01; vine stakes 45f-15/01, 45f-17/14; building frameworks 37f-7/05; roof, ceiling and wall frameworks and networks, 37a)

37b-3/02 Welded beams, roof trusses, columns, pillars, post, masts and poles (7a; 7b-7/01; 7b-7/20; 7c-22; 19d; 21h-29/10; 21h-30/10; 21h-32/10; 49h-34/01; 49h-35/10; 62a-5; 62a-6; 62b-24/01; 62b-24/02; 63c-37; 63c-43)

37b-3/03	Reinforced-concrete beams, columns, pillars, post, masts, and poles (19d; 37a; 37d-1; 37f-7/05; 80a-51; 80a-56/10; 84c-2; 84c-5/00)
37b-3/04	Telescopic mast (37f-4; 61a-2)
37b-3/05	Cover grates (34c-23/04; 37c-9/02; 37d-17; 37d-36/01; 37d-39/07)
37b-4/01	Embedded reinforcements for reinforced concrete (7a-2; 7b; 7c; 7d; 37a; 37c; flexible metal fabrics for conveyor belts 81e-2)
37b-4/02	Corrugated sheet iron, punched sheet iron or expanded sheets for building purposes (7b; 7c; 37a; 37c)
37b-5/01	Fastenings and connections for stone, wood and iron in building structures, such as nails, clamps, hooks, dowels, bolts, and anchors (7c-4/05; 7c-21; 34e-3/01; 34f-3/01; 34f-3/02; 37c-2; 37d; 37e-8/01; 37e-8/02; 38d-1 – 38d-3; 47a; 47f; 62b-24/04; 77f-23; 81c-2; tube joints for scaffolds 37e-8/01, 37e-8/02; connections for furniture parts 34i-27/01)
37b-5/02	Welded joints (21h-29/10; 21h-30/10; 21h-32/10; 47a-2; 49h-34/01; 49h-35/10; 62a-5; 62b-24/01; 62b-24/02; 63c-37; 63c-43)
37b-5/03	Ground anchors (62a-40; 62a-42; 84a-2; 84a-3/00; 84c-1; 84c-5/00)
37b-5/04	Wall dowels (19a-2; 19a-3/00; 21c-17; 34e-3/01; 34f-3/01; 34f-3/03)
37b-5/05	Corner protection fillets (protection rails for stairs 37d-4/02; door frames 37d-24/03)
37b-5/06	Beam supports
37b-6	Insulation coverings and other structural elements for preventing the transmission of moisture, heat, and sound (8a-28; 8b; 19a-1/03; 19a-9/00; 19a-21/00; 34f-24; 37a-7/01; 37b-2/01; 37b-2/02; 37c-3; 37f-1/02; 38h; 39b; 47a-16; 47f-27/01 – 47f-37/95; 55f-14; 80b-9/01 – 80b-9/20; 80b-16/01; 80b-22/05; 80b-25/08 – 80b-25/16); also against fire and against dry rot and decomposition of wood (37c-6/01; 38h-1/01 – 38h-4)

37b (IPC: E04C) Structural elements; Building materials (for bridges 19d; specially designed for insulation or other protection 37a; elements used as building aids 37e; for mining 5; for tunnels 19f; structural elements with broader range of application than for building engineering 47)

37b-1/00	Building elements of block or other shape for the construction of parts of buildings (structural elongated load-supporting members, e.g. joists, trusses, lintels, or the like 37b-3/00; paving elements 19c; for insulation or other protection 37a-1/62; roof or like covering elements 37c; finishing elements, structural elements for built-in chimneys or other built-in conduit shafts 37d; structural elements for special types of buildings, e.g. silos, 37f; special elements for building ovens or furnaces in the relevant classes)
37b-1/02	. block-shaped, e.g. building stones (material or manufacture of building stones 32, 80)
37b-1/04	. . for building-up walls or pillars (37b-1/42 takes precedence)
37b-1/06	. . . characterised by cavities (37b-1/12 takes precedence)
37b-1/08	. . . . with full-through cavities, e.g. stones with longitudinal or vertical holes or with cross-holes
37b-1/10	. . . characterised by specially designed means for stabilising the position, e.g. stones with tongues, grooves, or dovetails
37b-1/12	. . . characterised by a shape differing from that of a parallelepiped, e.g. triangular, L-shaped or T-shaped cross-section, with open cavity at the end
37b-1/14	. . . . formed of two parts kept in distance by spacers
37b-1/16	. . . . . the parts having cavities
37b-1/18	. . . . . the parts being solid
37b-1/20	. . . characterised by special purposes, e.g. serving for locating conduits, for forming soffits, cornices or shelves, for fixing wall-plates or door frames
37b-1/22	. . . composite in respect of material, e.g. composed of layers of different materials or stones with filling material or insulating inserts
37b-1/24	. . able to be assembled to form floors, ceilings, roofs, arches, or beams (37b-1/42 takes precedence)

Note:

"Load-carrying" means transmitting the weight of the flooring or ceiling, and any load carried thereby, to the walls or pillars of the building.

- 37b-1/26 . . . with load-carrying function
- 37b-1/28 for floors, ceilings, or roofs
- 37b-1/30 shaped to interengage
- 37b-1/32 for beams
- 37b-1/34 . . . for use as filling elements without load-carrying function
- 37b-1/36 between joists or girders
- 37b-1/38 in ribbed or cross-ribbed floors, ceilings, or roofs consisting of reinforced concrete
- 37b-1/40 . . . composite in respect of material, e.g. composed of layers of different material or elements with filling material or insulating inserts
- 37b-1/42 . . . of glass or other transparent material
- 37b-1/44 . of relatively thin form, e.g. sheet materials or panels (made in situ 37a; materials and manufacture in the relevant subclasses. e.g. 39a, 54e)
- 37b-1/46 . . made of specified materials (37b-1/72 to 37b-1/84 take precedence)
- 37b-1/48 . . . of concrete or other stone-like substance (37b-1/70 takes precedence; material or manufacture 80)
- 37b-1/50 reinforced
- 37b-1/52 . . . of metal, e.g. sheet metal (37b-1/70 takes precedence)
- 37b-1/54 . . . of wood and/or fibres, chips, vegetable stems, or the like, and/or plastics (37b-1/70 takes precedence)
- 37b-1/56 of solid wood
- 37b-1/58 reinforced
- 37b-1/60 of fibres, chips, vegetable stems, or the like
- 37b-1/62 with binding wires, reinforcing bars, or the like
- 37b-1/64 of plastics
- 37b-1/66 reinforced
- 37b-1/68 laminated and composed of materials mentioned in two or more of groups 37b-1/56, 37b-1/60, 37b-1/64
- 37b-1/70 . . . composed of materials mentioned in two or more of groups 37b-1/48, 37b-1/52, 37b-1/54
- 37b-1/72 . . formed of two spaced sheet-like parts, e.g. honeycomb panels (37b-1/84 takes precedence)
- 37b-1/74 . . specially adapted for making walls (37b-1/84 takes precedence)
- 37b-1/76 . . . as high as or higher than the room
- 37b-1/78 Framed panels
- 37b-1/80 . . Self-supporting slabs specially adapted for making floors, ceilings or roofs, e.g. able to be loaded (37b-1/84 takes precedence; ceilings 37a-5/50; roof coverings 37c; floor coverings 37d-15/00)
- 37b-1/82 . . . Gratings (made in situ 37a; built-in gratings 37d-19/10)
- 37b-1/84 . . Slab-like translucent elements
- 37b-1/00 Building elements of block or other shape for the construction of parts of buildings** (of relatively thin form 37b-2/00; structural elongated load-supporting members, e.g. joists, trusses, lintels, or the like 37b-3/00; paving elements 19c; specially designed for insulation or other protection 37a-1/62; structural elements specially designed for built-in conduit shafts 37d)
- 37b-1/04 . Elements for building-up walls or pillars (37b-1/39 to 37b-1/42 take precedence)
- 37b-1/06 . . characterised by cavities (37b-1/12 takes precedence)
- 37b-1/07 . . . with fully-enclosed cavities
- 37b-1/08 . . . with full-through cavities, e.g. with longitudinal or vertical holes or with cross-holes
- 37b-1/10 . . characterised by specially designed means for stabilising the position, e.g. stones with tongues, grooves, or dovetails
- 37b-1/12 . . characterised by a shape differing from that of a parallelepiped, e.g. triangular, L-shaped or T-shaped cross-section
- 37b-1/14 . . . formed of two parts kept in distance by spacers
- 37b-1/16 the parts having cavities

- 37b-1/18 the parts being solid
- 37b-1/24 . Elements for building-up floors, ceilings, roofs, arches, or beams (37b-1/04, 37b-1/39 to 37b-1/42 take precedence; flooring 37d-15/00)
- 37b-1/26 . . special features of elements with load-carrying function
- 37b-1/28 . . . for floors, ceilings, or roofs
- 37b-1/30 shaped to interengage
- 37b-1/32 . . . for beams
- 37b-1/34 . . designed for use as filling elements
- 37b-1/36 . . . between joists or girders
- 37b-1/38 . . . in ribbed or cross-ribbed floors, ceilings, or roofs consisting of reinforced concrete
- 37b-1/39 . characterised by special adaptations, e.g. serving for locating conduits, for forming soffits, cornices, or shelves, for fixing wall-plates or door-frames, for claustra
- 37b-1/40 . built-up from parts of different materials, e.g. composed of layers of different materials or stones with filling material or with insulating inserts
- 37b-1/42 . of glass or other transparent material

37b-2/00 Building elements of relatively thin form for the construction of parts of buildings, e.g. sheet materials, slabs, or panels (made in situ 37a; specially designed for insulation or other protection 37a-1/62; roof or like covering elements 37c-3/00; for lining or finishing 37d-13/00)

- 37b-2/02 . characterised by specified materials (translucent 37b-2/54)
- 37b-2/04 . . of concrete or other stone-like substance, of asbestos cement (37b-2/26 takes precedence)
- 37b-2/06 . . . reinforced
- 37b-2/08 . . of metal, e.g. sheet metal (37b-2/26 takes precedence)
- 37b-2/10 . . of wood, fibres, chips, vegetable stems, or the like; of plastics; of foamed products (37b-2/26 takes precedence)
- 37b-2/12 . . . of solid wood
- 37b-2/14 reinforced
- 37b-2/16 . . . of fibres, chips, vegetable stems, or the like
- 37b-2/18 with binding wires, reinforcing bars, or the like
- 37b-2/20 . . . of plastics
- 37b-2/22 reinforced
- 37b-2/24 . . . laminated and composed of materials covered by two or more of groups 37b-2/12, 37b-2/16, 37b-2/20
- 37b-2/26 . . composed of materials covered by two or more of groups 37b-2/04, 37b-2/08, 37b-2/10, or of materials covered by one of these groups with a material not specified in one of these groups
- 37b-2/28 . . . combinations of materials fully covered by groups 37b-2/04 and 37b-2/08 (reinforced concrete 37b-2/06)
- 37b-2/30 . characterised by the shape or structure (translucent 37b-2/54)
- 37b-2/32 . . formed of corrugated or otherwise indented sheet-like material; composed of such layers with or without layers of flat sheet-like material
- 37b-2/34 . . composed of two or more spaced sheet-like parts (37b-2/32 takes precedence)
- 37b-2/36 . . . spaced apart by transversely-placed strip material, e.g. honeycomb panels
- 37b-2/38 . . with attached ribs, flanges, or the like, e.g. framed panels
- 37b-2/40 . . composed of a number of smaller components rigidly or movably connected together, e.g. interlocking, hingedly connected
- 37b-2/42 . . Gratings; Grid-like panels (reinforcing elements 37b-5/00; built-in gratings 37d-19/10; gratings in general 47a5-3/00)
- 37b-2/44 . characterised by the purpose
- 37b-2/46 . . specially adapted for making walls (37b-2/52, 37b-2/54 take precedence; structures of slab-shaped elements 37a-1/02; walls of elements of relatively thin form 37a-2/72)
- 37b-2/48 . . as high as or higher than the room, i.e. having provisions concerning the connection with at least two floors (37b-2/52, 37b-2/54 take precedence)
- 37b-2/50 . . Self-supporting slabs specially adapted for making floors, ceilings, or roofs, e.g. able to be loaded (37b-2/52, 37b-2/54 take precedence; structures of slab-shaped

	elements 37a-1/02; floor structures 37a-5/00; ceilings 37a-5/52; roof coverings 37c; floor coverings 37d-15/00)
37b-2/52	. . with special adaptations for auxiliary purposes, e.g. serving for locating conduits (37b-2/54 takes precedence; block-shaped elements therefor 37b-1/39; floor structures incorporating ducts 37a-5/48)
37b-2/54	. . Slab-like translucent elements

37b-3/00	Structural elongated members designed for load-supporting
37b-3/02	. Joists; Girders or trusses, prefabricated or no; Lintels (37b-3/38 takes precedence)
37b-3/04	. . of metal (as reinforcing elements 37b-5/06; manufacture 7)
37b-3/06	. . . with solid web
37b-3/08	. . . with lattice web
37b-3/10	. . . prestressed
37b-3/12	. . of wood
37b-3/14	. . . with solid web (37b-3/18 takes precedence)
37b-3/16	. . . with lattice web, e.g. trusses (37b-3/18 takes precedence)
37b-3/18	. . . compounded with metal
37b-3/20	. . of concrete or other stone-like material, with or without reinforcements or tensioning members (reinforcing elements 37b-5/00; manufacture 80)
37b-3/22	. . . built-up by elements joined in line (37b-3/24, 37b-3/26 take precedence)
37b-3/24	. . . combined with partly external stiffening members; with reinforcement extending laterally (37b-3/26 takes precedence)
37b-3/26	. . . prestressed (prestressing members 37b-5/08)
37b-3/28	. . of other materials
37b-3/30	. Columns; Pillars; Struts (not designed for end loading 37b-3/02; posts, masts, as independent structures 37f-11/24)
37b-3/32	. . of metal
37b-3/34	. . of concrete or other stone-like material, with or without internal or external reinforcement, e.g. metal coverings
37b-3/36	. . of other materials
37b-3/38	. Arched girders or portal frames (straight girders able to be bent 37b-3/02)
37b-3/40	. . of metal
37b-3/42	. . of wood, e.g. units for rafter roofs
37b-3/44	. . of concrete or other stone-like material, with or without reinforcements or tensioning members
37b-3/46	. . of other materials
37b-3/00	Structural elongated members designed for load-supporting (as building aids 37e)
37b-3/02	. Joists; Girders, trusses, or truss-like structures, e.g. prefabricated; Lintels; Transoms (37b-3/38 takes precedence; for structures characterised by movable, separable, or collapsible parts 37a-1/343)
37b-3/04	. . of metal (37b-3/29 takes precedence; as reinforcing elements 37b-5/06; manufacture 7)
37b-3/06	. . . with substantially solid, i.e. unapertured, web (37b-3/10, 37b-3/11 take precedence)
37b-3/07	. . . . at least partly of bent or otherwise deformed strip- or sheet-like material
37b-3/08	. . . with apertured web, e.g. with a web consisting of bar-like components; Honeycomb girders (37b-3/10, 37b-3/11 take precedence)
37b-3/09	. . . . at least partly of bent or otherwise deformed strip- or sheet-like material
37b-3/10	. . . prestressed
37b-3/11	. . . with non-parallel upper and lower edges, e.g. roof trusses (arched girders, portal frames 37b-3/38)
37b-3/12	. . of wood, e.g. with reinforcements, with tensioning members (37b-3/292 takes precedence)
37b-3/14	. . . with substantially solid, i.e. unapertured, web (37b-3/17, 37b-3/18 take precedence)
37b-3/16	. . . with apertured web, e.g. trusses (37b-3/17, 37b-3/18 take precedence)
37b-3/17	. . . with non-parallel upper and lower edges, e.g. roof trusses
37b-3/18	. . . with metal reinforcements or tensioning members

37b-3/20	. . of concrete or other stone-like material, e.g. with reinforcements or tensioning members (reinforcing elements 37b-5/00)
37b-3/22	. . . built-up by elements joined in line
37b-3/26	. . . prestressed (37b-3/22, 37b-3/29 take precedence; prestressing members 37b-5/08)
37b-3/28	. . of other materials
37b-3/29	. . built-up from parts of different materials
37b-3/292	. . . the materials being wood and metal
37b-3/293	. . . the materials being steel and concrete (concrete with internal reinforcements or tensioning members 37b-3/20)
37b-3/294	. . . . of concrete combined with a girder-like structure extending laterally outside the element (light-weight girders used as reinforcement 37b-5/065; as part of a floor structure 37a-5/23)
37b-3/30	. Columns; Pillars; Struts (not designed for end loading 37b-3/02; posts, masts, as independent structures 37f-12/00)
37b-3/32	. . of metal (37b-3/36 takes precedence)
37b-3/34	. . of concrete or other stone-like material, with or without permanent form elements, with or without internal or external reinforcement, e.g. metal coverings (37b-3/36 takes precedence)
37b-3/36	. . of other materials
37b-3/38	. Arched girders or portal frames (straight girders able to be bent 37b-3/02; inflatable 37a-1/345)
37b-3/40	. . of metal (37b-3/46 takes precedence)
37b-3/42	. . of wood, e.g. units for rafter roofs (37b-3/46 takes precedence)
37b-3/44	. . of concrete or other stone-like material, e.g. with reinforcements or tensioning members (37b-3/46 takes precedence)
37b-3/46	. . of other materials
37b-5/00	Reinforcing elements, e.g. for concrete; Auxiliary elements therefor (manufacture of metal reinforcement materials 7; material composition 18, 40; arrangements of reinforcing elements in the relevant classes)
37b-5/02	. of low bending resistance (37b-5/14 takes precedence)
37b-5/04	. . Mats; Basket-like units (for plastering 37d-13/04)
37b-5/06	. of high bending resistance. e.g. light-weight girders used as reinforcement (37b-5/14 takes precedence)
37b-5/08	. Prestressed members (37b-5/14 takes precedence)
37b-5/10	. . Ducts therefor
37b-5/12	. . Anchoring devices therefor (tools or methods for tensioning 37e-21/12)
37b-5/14	. made of other material than steel or not exclusively made of steel, e.g. of glass, plastics, reinforced concrete
37b-5/16	. Connectors for reinforcing elements; Spacers; Stirrups (tools for connecting reinforcing elements 37e-21/12)
37b-5/00	Reinforcing elements, e.g. for concrete; Auxiliary elements therefor (material composition 18, 40; arrangements of reinforcing elements, see the relevant classes)
37b-5/01	. Reinforcing elements of steel, e.g. with coatings
37b-5/02	. . of low bending resistance
37b-5/03	. . . with indentations, projections, ribs, or the like, for augmenting the adherence to the concrete
37b-5/04	. . . Mats (bases for plaster 37d-13/04)
37b-5/06	. . of high bending resistance; Basket-like units
37b-5/065	. . . Light-weight girders, e.g. with precast parts (light-weight girders in general 37b-3/08, 37b-3/294)
37b-5/07	. Reinforcing elements of other material than steel, e.g. of glass, of plastics, or not exclusively made of steel
37b-5/08	. Members specially adapted to be used in prestressed constructions
37b-5/10	. . Ducts
37b-5/12	. . Anchoring devices (tools or methods for tensioning 37e-21/12)
37b-5/16	. Auxiliary parts for reinforcements, e.g. connectors, spacers, stirrups (tools for connecting reinforcing elements 37e-21/12)

37b-5/18	. . . of metal or substantially of metal
37b-5/20	. . . of other material than metal or with only additional metal parts, e.g. concrete or plastics spacers with metal binding wires

37c Roof coverings, including dormer windows, skylights and roof drainage arrangements (scaffolds for working on roofs 37e-1 – 37e-7)

	Tile coverings
37c-1/01	Interlocking tiles
37c-1/02	Pan tiles, flap tiles, hollow tiles
37c-1/03	Diamond-shaped roof tiles
37c-1/04	Plain tiles
37c-1/05	Hollow roofing tiles
37c-1/06	Ridge, gutter and hip tiles, gable connection tiles
37c-2	Sheet metal and wire clamps and hooks for fastening roof tiles and covering plates on roof boardings or battens
37c-3	Seals for roof tile coverings (insulation 37b-6)
37c-4	Slate roofing
	Metal roofing
37c-5/01	with sheet metal strips
37c-5/02	with sheet metal plates or shingles
37c-5/03	with corrugated iron sheets
	Cardboard roofs (roofing cardboard, chemical part 8l-3; manufacture, mechanical part 55f-14; roofing cardboard as structural element 37b-6)
37c-6/01	of cardboard strips
37c-6/02	of cardboard sheets or plates
37c-6/03	Wood cement roof, with gravel protecting mouldings
37c-7	Straw, reed, wood, or canvas roofs, roofs made of organic materials
	Glass roofing
37c-8/01	with iron bars
37c-8/02	with wooden bars
37c-8/03	with concrete and reinforced-concrete bars
37c-8/04	Glass roofing clamps
37c-9/01	Dormer windows and roof hatches (ship hatches 65a2-33 – 65a2-35; hatches for buildings 37d-38; closures 68b-17 – 68b-26; fastening devices 68d)
37c-9/02	Roof skylights (ceiling skylights 37a; shop skylights 65a2, 35; skylight windows 37d, 15)
37c-10/10	Gutters
37c-10/02	Rain downspouts
37c-10/03	Pipe clamps (general 47f-2/02)
37c-10/04	Water funnels for downspouts
37c-10/05	Roof snow traps
37c-11/01	Various equipment for roofing
37c-11/02	Implements for working on roofs
37c-11/03	Tools for working on roofs
37c-11/04	Plank supports
37c-11/05	Pipe connections on roof coverings
37c-12	Coverings for flat roofs designed to be walked on

37c (IPC: E04D) Roof coverings; Sky-lights; Gutters; Roof-working tools**Note:**

The term "roof covering" in this sub-class includes not only roof coverings but as well any similar kind of watertight covering against rain, snow, hail, etc., for other parts of buildings (coverings of outer walls by plaster or other porous material 37d-13/00)

37c-1/00 Roof covering by making use of tiles, slates, shingles, or other small roofing elements of similar height; Battens

- 37c-1/02 . Grooved or vaulted roofing elements (37c-1/28 takes precedence)
- 37c-1/04 . . of ceramics, glass or concrete, with or without reinforcement
- 37c-1/06 . . of metal
- 37c-1/08 . . of plastics
- 37c-1/10 . . of other materials
- 37c-1/12 . Roofing elements shaped as plain tiles or shingles, i.e. with flat outer surface (37c-1/28 takes precedence)
- 37c-1/14 . . Slates, with or without fastening means
- 37c-1/16 . . of ceramics, glass or concrete, with or without reinforcement
- 37c-1/18 . . of metal
- 37c-1/20 . . of plastics, fibrous materials, or wood
- 37c-1/22 . . of other materials
- 37c-1/24 . Roofing elements with cavities, e.g. hollow tiles (37c-1/28 takes precedence)
- 37c-1/26 . Strip-shaped roofing elements appearing as a row of shingles
- 37c-1/28 . Roofing elements comprising two or more layers, e.g. for insulation
- 37c-1/30 . Special roof-covering elements, e.g. ridge tiles, gutter tiles, gable tiles, ventilation tiles
- 37c-1/32 . Battens
- 37c-1/34 . Fastenings for attaching roof-covering elements to the supporting elements
- 37c-1/36 . Devices for sealing the spaces or joints between roof-covering elements

37c-1/00 Roof covering by making use of tiles, slates, shingles, or other small roofing elements (roofing supports 37c-12/00)

- 37c-1/02 . Grooved or vaulted roofing elements (37c-1/28, 37c-1/30 take precedence)
- 37c-1/04 . . of ceramics, glass or concrete, with or without reinforcement
- 37c-1/06 . . of metal
- 37c-1/08 . . of plastics; of fibrous materials
- 37c-1/10 . . of specified materials, or of combinations of materials, not covered in any one of groups 37c-1/04 to 37c-1/08
- 37c-1/12 . Roofing elements shaped as plain tiles or shingles, i.e. with flat outer surface (37c-1/28, 37c-1/30 take precedence)
- 37c-1/14 . . of slate material, with or without fastening means
- 37c-1/16 . . of ceramics, glass or concrete, with or without reinforcement
- 37c-1/18 . . of metal
- 37c-1/20 . . of plastics, fibrous materials, or wood
- 37c-1/22 . . of specified materials, or of combinations of materials, not covered by any one of groups 37c-1/14 to 37c-1/20
- 37c-1/24 . Roofing elements with cavities, e.g. hollow tiles (37c-1/28 takes precedence)
- 37c-1/26 . Strip-shaped roofing elements appearing as a row of shingles
- 37c-1/28 . Roofing elements comprising two or more layers, e.g. for insulation
- 37c-1/30 . Special roof-covering elements, e.g. ridge tiles, gutter tiles, gable tiles, ventilation tiles (37c-3/40 takes precedence)
- 37c-1/34 . Fastenings for attaching roof-covering elements to the supporting elements
- 37c-1/36 . Devices for sealing the spaces or joints between roof-covering elements

37c-3/00 Roof covering by making use of flat or curved slabs or stiff sheets (37c-1/00 takes precedence)

- 37c-3/02 . of plane slabs, or sheets, or in which the cross-section is unimportant
- 37c-3/04 . . of concrete or ceramics (of asbestos cement 37c-3/32)
- 37c-3/06 . . of glass (fixing glass panes by means applicable to windows 37g1-3/54)

- 37c-3/08 . . . with metal glazing bars
- 37c-3/10 . . . with wooden glazing bars
- 37c-3/12 . . . with glazing bars of concrete or reinforced concrete
- 37c-3/14 . . . with glazing bars of other material, e.g. of glass
- 37c-3/16 . . of metal
- 37c-3/18 . . of other materials
- 37c-3/20 . . Fastening elements
- 37c-3/22 . . Sealings
- 37c-3/24 . of slabs or sheets essentially having corrugations on both sides
- 37c-3/26 . . of concrete or ceramics
- 37c-3/28 . . of glass
- 37c-3/30 . . of metal
- 37c-3/32 . . of plastics, fibrous materials, or asbestos cement
- 37c-3/34 . . of other materials
- 37c-3/36 . . Fastening elements
- 37c-3/38 . . Sealings
- 37c-3/40 . Slabs or sheets locally modified for auxiliary purposes, e.g. for resting on walls or for serving as guttering; Elements for particular purposes, e.g. ridge elements, specially designed for use in conjunction with slabs or sheets

37c-3/00 Roof covering by making use of flat or curved slabs or stiff sheets

(37c-1/00 takes precedence; built-up roofs 37c-11/02)

- 37c-3/02 . of plane slabs, slates, or sheets, or in which the cross-section is unimportant (37c-3/35 takes precedence)
- 37c-3/04 . . of concrete or ceramics (of asbestos cement 37c-3/18)
- 37c-3/06 . . of glass or other translucent material; Fixing means therefor (fixing glass panes by means applicable to windows 37g1-3/54)
- 37c-3/08 . . . with metal glazing bars
- 37c-3/14 . . . with glazing bars of other material, e.g. of glass
- 37c-3/16 . . of metal
- 37c-3/18 . . of specified materials, or of combinations of materials, not covered by any of groups 37c-3/04, 37c-3/06 or 37c-3/16
- 37c-3/24 . with special cross-section, e.g. with corrugations on both sides, with ribs, flanges, or the like (37c-3/35 takes precedence)
- 37c-3/26 . . of concrete or ceramics
- 37c-3/28 . . of glass
- 37c-3/30 . . of metal
- 37c-3/32 . . of plastics, fibrous materials, or asbestos cement
- 37c-3/34 . . of specified materials, or of combinations of materials, not covered by any one of groups 37c-3/26 to 37c-3/32
- 37c-3/35 . Roofing slabs or stiff sheets comprising two or more layers, e.g. for insulation
- 37c-3/36 . Connecting; Fastening

Note:

In groups 37c-3/361 to 37c-3/368, additional small fastening elements, e.g. nails, screws, are not to be considered to be separate connecting elements.

- 37c-3/361 . . by specially-profiled marginal portions of the slabs or sheets
- 37c-3/362 . . . by interlocking of the edge of the one slab or sheet within the profiled marginal portion of the adjacent slab or sheet, e.g. with use of separate connecting means
- 37c-3/363 . . . with snap action (37c-3/366 takes precedence)
- 37c-3/364 . . . by folding of the edges
- 37c-3/365 . . by simple overlapping of the marginal portions with use of separate connecting means, e.g. hooks or bolts for corrugated sheets
- 37c-3/366 . . by closing the space between the slabs or sheets by gutters, bulges, or bridging elements, e.g. strips
- 37c-3/368 . . by forcefitting of the marginal portions of adjacent slabs or sheets
- 37c-3/369 . . by welding of the marginal portions of adjacent slabs or sheets
- 37c-3/38 . Devices for sealing spaces or joints between roof-covering elements (37c-3/36 takes precedence)

37c-3/40	. Slabs or sheets locally modified for auxiliary purposes, e.g. for resting on walls, for serving as guttering; Elements for particular purposes, e.g. ridge elements, specially designed for use in conjunction with slabs or sheets
37c-5/00	Roof covering by making use of flexible material, e.g. supplied in roll form (using stiff sheets 37c-3/00; gravelling of flat roofs 37c-7/00)
37c-5/02	. of materials impregnated with sealing substances, e.g. roofing felt
37c-5/04	. by making use of metal foils
37c-5/06	. by making use of plastics
37c-5/08	. by making use of other materials
37c-5/10	. by making use of compounded or laminated materials
37c-5/00	Roof covering by making use of flexible material, e.g. supplied in roll form (using stiff sheets 37c-3/00; gravelling of flat roofs 37c-7/00; built-up roofs 37c-11/02)

Note:**Group 37c-5/12 takes precedence over groups 37c-5/02 to 37c-5/08.**

37c-5/02	. of materials impregnated with sealing substances, e.g. roofing felt
37c-5/04	. by making use of metal foils
37c-5/06	. by making use of plastics
37c-5/08	. by making use of other materials
37c-5/10	. by making use of compounded or laminated materials, e.g. metal foils or plastic films coated with bitumen (37c-5/12 takes precedence)
37c-5/12	. specially modified, e.g. perforated, with granulated surface, with attached pads
37c-5/14	. Fastening means therefor

37c-7/00	Roof covering by sealing masses applied in situ; Gravelling of flat roofs
37c-9/00	Roof covering by using straw, thatch, or like materials
37c-11/00	Roof covering, as far as not restricted to features covered by only one of groups 37c-1/00 to 37c-9/00; Roof covering in ways not provided for by groups 37c-1/00 to 37c-9/00
37c-11/02	. Built-up roofs, i.e. consisting of two or more layers bonded together in situ, at least one of the layers being of watertight composition (gravelling of flat roofs 37c-7/00; vents per se 37c-13/16)
37c-12/00	Non-structural supports for roofing materials, e.g. battens, boards (37c-11/02 takes precedence)

37c-13/00	Special arrangements in connection with roof coverings; Roof drainage (roofing elements therefor in the relevant groups)
37c-13/02	. Dormer windows, in so far as the roof covering is concerned (structures therefor 37a-7/18); Skylights
37c-13/04	. Roof drainage (drainage fittings in flat roofs, gullies 85e)
37c-13/06	. . Gutters
37c-13/08	. . Down pipes; Special clamping means therefor (clamping pipes in general 47a1; 47f1)
37c-13/10	. Snow traps
37c-13/12	. Devices or arrangements allowing walking on the roof
37c-13/14	. Junctions of roof sheathings to chimneys or other parts extending above the roof
37c-13/16	. Additional insulating or ventilating arrangements in so far as the roof covering is concerned (ventilation tiles 37c-1/30; methods for keeping dry building structures in general 37a-1/70)
37c-13/00	Special arrangements or devices in connection with roof coverings; Roof drainage (roofing elements therefor, in the relevant groups; internal channels 37d-17/00)
37c-13/02	. Roof-covering aspects of dormer windows (37c-13/14 takes precedence; structures therefor 37a-7/18)
37c-13/03	. Sky-lights; Domes; Ventilating sky-lights (37c-13/14 takes precedence; structures therefor 37a-7/18)

37c-13/035	. . characterised by having movable parts
37c-13/04	. Roof drainage; Drainage fittings in flat roofs (gutter tiles 37c-1/30; gutter slabs 37c-3/40)
37c-13/06	. . Gutters; Devices or arrangements for removing snow or ice from gutters
37c-13/08	. . Down pipes; Special clamping means therefor (clamping pipes in general 47a1; 47f1)
37c-13/10	. Snow traps
37c-13/12	. Devices or arrangements allowing walking on the roof or in the gutter
37c-13/14	. Junctions of roof sheathings to chimneys or other parts extending above the roof
37c-13/15	. Trimming strips; Edge strips; Fascias
37c-13/16	. Additional insulating or ventilating devices or arrangements in so far as the roof covering is concerned (ventilation tiles 37c-1/30; ventilation slabs 37c-3/40, 37c-11/02; methods for keeping dry building structures in general 37a-1/70; buildings for extreme climates 37f-9/16)

37c-15/00**Apparatus or tools for roof working**

37c-15/02	. for roof coverings comprising tiles, shingles, or like roofing elements
37c-15/04	. for roof coverings comprising slabs, sheets, or flexible material
37c-15/06	. for handling roofing or sealing material in roll form
37c-15/07	. for handling roofing or sealing material in bulk form
37c-15/08	. for roof drying

37d**Interior and exterior building structures****Stairs**

37d-1	Stairs of stone, concrete, artificial stone, and other building materials, except wood and metal
37d-2	Wooden stairs
37d-3	Metal stairs
37d-4/01	Stair coverings (34f-24)
37d-4/02	Protective rails
37d-4/03	Banisters
37d-4/04	Special staircase arrangements

Floors and house pavings as well as their insulation, as fixed components

37d-5	Wooden floors (19c-4)
37d-6/01	Floors of stone and artificial stone (laminated floor slabs 80b-13)
37d-6/02	Metal floors
37d-7/01	Plaster floors and similar floors without joints (19c-2; 19c-3; 19c-5; 19c-5/00; 19c-7/00; 19c-9/00; 80a-8; 80b-16; 80b-17; 80b-25)
37d-7/02	Joints (19c-6/10; 80b-11/02; 19d-19/06)

Windows (fastenings 68b; fittings 68e, 68d)

37d-8	Windows pivoted on a vertical axis
37d-9	Windows pivoted on a horizontal axis, including swinging windows
37d-10	Vertically sliding windows and guides therefor
37d-11	Horizontally sliding windows and guides therefor
37d-12	Sliding windows with turning sashes and guides therefor
37d-13	Shop windows, structure (54g-11; 54h)
37d-14	Screen windows
37d-15	Window sashes and glass blinds as part of the window (68b-17 – 68b-27; stops 68d-19 – 68d-34; roof skylights 37c-9/02; skylights for ships 65a2-35; ventilation openings for windows 36d-2/10, 36d-4/10)
37d-16	Window protection against dirt and other deposits (22g-10; 34c-3)
37d-17	Metal windows

Doors (locks 68b; fittings 68e, 68d)

- 37d-18 Folding doors including laterally swinging doors
- 37d-19 Revolving doors
- 37d-20 Sliding doors
- 37d-21 Lattice doors
- 37d-22 Rolling, folding and sliding doors, also movable partitions
- 37d-23/01 Fireproof doors
- 37d-23/02 Metal doors
- 37d-23/03 Plywood doors
- 37d-23/04 Doors and windows of concrete and other artificial materials
- 37d-24/01 Window and door seals
- 37d-24/02 Panes
- 37d-24/03 Thresholds, panelling, frames
- 37d-24/04 Frames and frame connections for windows and doors
- 37d-24/09 Various window and door equipment

Window shutters, awnings, venetian blinds, window gratings (fastenings 68b; fittings 68e, 68d)

- 37d-25/01 Window shutters (roller shutters 37d-28)
- 37d-25/02 Fire protecting shutters
- 37d-25/03 Window lattices, rolling lattices (window lattices to prevent falling out, especially for children 34e-16)
- 37d-26/01 Awnings (operators 68b-28)
- 37d-26/02 Tarpaulins for covering booths and sheds
- 37d-27 Venetian blinds (68b-28)
- 37d-28 Roller shutters (68b-28; roller blinds 34e-7 – 34e-9, 34e-13, 34e-19)

Methods, apparatus, devices and auxiliary tools for the completion and demolition of buildings

- 37d-29 Suspension devices for tower bells (ringers 74a)
- 37d-31 Methods and devices for papering of walls and ceilings (trimmers for wallpapers 8f-10)
- 37d-32/01 Methods and devices for applying wallpaper to walls and ceilings
- 37d-32/02 Plaster sprayers as plastering devices (5c; 19f; 37a; 80a-46)
- 37d-32/03 Cornice templates (37a-3)
- 37d-33/01 Wall and ceiling panelling and coverings of wood, wood pulp, stone, brick and metal (panelling elements, plates 37b-2)
- 37d-33/02 Ceiling structures for indirect illumination (4b-16)
- 37d-33/03 Skirting boards
- 37d-34 Fastening of flags to buildings (37b-3; 37f-4)
- 37d-36/01 Fences and railings, enclosures
- 37d-36/02 Lattice gates (20i; 45h)
- 37d-36/03 Permanent wire fence tensioning devices (7d-6; 47d-12; 87a-21)
- 37d-37 Turnstiles (coin-controlled 43b-55)
- 37d-38 Trapdoors for buildings, e.g. cellar and attic trapdoors (roof trapdoors 37c-9)
- 37d-39/01 Wickets
- 37d-39/02 Peepholes
- 37d-39/03 Observation mirrors as parts of buildings (34f-1)
- 37d-39/04 Built-in cabinets as parts of walls
- 37d-39/05 Emergency exit closures
- 37d-39/06 Cellar windows
- 37d-39/07 Built-in grates
- 37d-39/08 Protection against fresh paint
- 37d-39/09 Exits for crowds

37d-39/10	Casings and coverings for conduits containing pipes in building walls
37d-39/11	Convertible balconies, bay windows
37d-40/01	Floor jacks
37d-40/02	Tools for marking out stair steps
37d-40/03	Levels, gauges
37d-40/04	Wall borers
37d-40/05	Wall saws
37d-40/06	Tools for puttying window panes
37d-40/07	Masonry tools: trowels, jointers, chisels, caulking chisels, hammers, stone tamping tools, surface finishing tools
37d-40/08	Smoothing tools for floors and walls
37d-40/09	Devices for laying tiles, etc.
37d-40/10	Devices for laying floors and floor coverings, e.g. linoleum
37d-40/11	Outer-wall cleaning
37d-40/12	Mortar containers
37d-41	Methods and devices for demolishing buildings

37d (IPC: E04F) Finishing work on buildings, e.g. stairs, floors (windows, doors 37g1)

37d-10/00	Sunshades; Awnings (baldachins 33a, 33d, 37f; for tents 33d-1/13)
37d-10/02	. of flexible canopy materials, e.g. canvas
37d-10/04	. . with material fixed on sections of a collapsible frame
37d-10/06	. . comprising a roller-blind with means for holding the end away from a building
37d-10/08	. of a plurality of similar rigid parts, e.g. slabs, lamellae (rigidly-arranged sunshade roofs with coherent surfaces 37a-7/00)
37d-10/10	. . collapsible
37d-11/00	Stairways, ramps, or like structures (mounting or marking-off stairways 37d-21/26; of temporary construction 37e-27/00); Balustrades; Handrails (built-in ladders 37g2)
37d-11/02	. not characterised by the material; Layout of the stairway
37d-11/04	. . Movable stairways, e.g. loft ladders which may or may not be concealable or extensible (ship ladders 65a2-37; escalators 35a-9/12)
37d-11/06	. . . collapsible, e.g. folding, telescopic
37d-11/08	. characterised by the material
37d-11/10	. . of wood
37d-11/12	. . of metal
37d-11/14	. . of stone or stone-like material, e.g. concrete (manufacture of concrete articles 80a; manufacture in forms in situ 37e)
37d-11/16	. Surface of steps; Protecting means for edges or corners (loosely laid coverings 34f-27/00)
37d-11/18	. Balustrades; Handrails (guard-rails on ships 65a2; for bridges 19d; for roads 19e)
37d-13/00	Coverings or linings in general, specially for walls or ceilings (floorings 37d-15/00; construction of ceilings 37a-5/00; roofings or similar covering against precipitations 37c; decoration of surfaces, mosaic work 75)
37d-13/02	. of plastic materials hardening after applying, e.g. plaster (surface treatment in painting technique 75c; inorganic or bituminous masses 80b; organic plastics 39)
37d-13/04	. . Bases for plaster (sub-ceilings with plaster-carrying means 37a-5/52)
37d-13/06	. . . Edge-protecting borders
37d-13/08	. composed of a number of similar elements, e.g. carried by webs (of fabrics 37d-13/20; borders 37d-19/02; skirtings 37d-19/04; joint covering 37d-19/06)
37d-13/10	. . of wood
37d-13/12	. . of metal
37d-13/14	. . of stone or stone-like materials; of glass
37d-13/16	. . of fibres or chips

37d-13/18	. . of organic plastics with or without reinforcements or filling materials (of plastic-bound fibres or chips 37d-13/16)
37d-13/20	. made of webs, e.g. of fabrics, of wallpaper (of a number of similar elements carried by webs 37d-13/08; paperhanging 75b)
37d-15/00	Flooring (stair treads 37d-11/16; coverings not specially adapted for floors 37d-13/00; skirting 37d-19/04; joint-covering 37d-19/06; basic or rough floors 37a-5/00)
37d-15/02	. Flooring or floor layers composed of a number of similar elements (of webs 37d-15/16)
37d-15/024	. . Sectional false floors, e.g. computer floors
37d-15/04	. . only of wood, e.g. with wooden connecting members (rollable parquet 37d-15/16)
37d-15/06	. . of metal, whether or not in combination with other material (gratings as building elements 37b-2/42)
37d-15/08	. . only of stone or stone-like material, e.g. concrete; of glass
37d-15/10	. . of other materials, e.g. fibrous or chipped materials, organic plastics, magnesite, hardboard
37d-15/12	. Flooring or floor layers made of masses in situ, e.g. seamless magnesite floors, terrazzo (inorganic or bituminous masses 80b; organic plastic masses 39)
37d-15/14	. . Construction of joints, e.g. dividing strips
37d-15/16	. Flooring, e.g. parquet on flexible web laid as flexible webs; Webs specially adapted for use as flooring (webs in general, manufacturing of webs, see the relevant classes)
37d-15/18	. Separately-laid insulating layers; Other additional insulating measures; Floating floors (insulating of buildings in general 37a-1/62)
37d-15/20	. . for sound insulation
37d-15/22	. Resiliently-mounted floors, e.g. sprung floors
37d-17/00	Vertical ducts; Channels, e.g. for drainage (pipes, pipe-line systems 47f1)
37d-17/02	. for carrying away waste gases, e.g. flue gases (free-standing chimneys 37f-12/28; connections between fireplace and chimney, chimney fittings, covers for cleaning holes of chimneys 24g; chimney tops 24i); Building elements specially designed therefor, e.g. shaped bricks or sets thereof
37d-17/04	. Air-ducts or air channels
37d-17/06	. Light shafts, e.g. for cellars
37d-17/08	. for receiving installation lines (covers giving access to the ducts or channels, covers of inspection holes 37d-19/08; shafts or channels arranged underground outside buildings 84c-29/10)
37d-17/10	. Arrangements in buildings for the disposal of refuse (refuse bins, gathering or removal of refuse 81d)
37d-17/12	. . Chutes
37d-19/00	Other details of constructional parts for finishing work on buildings (ladders, e.g. climbing irons, 37g2-9/04)
37d-19/02	. Borders; Finishing strips, e.g. beadings; Light coves (for protecting edges of plaster 37d-13/06)
37d-19/04	. . for use between floor, or ceiling and wall, e.g. skirtings
37d-19/06	. . specially designed for securing panels
37d-19/08	. Built-in cupboards; Masks of niches; Covers of holes enabling access to installations (clean-out doors of chimneys 24g)
37d-19/10	. Built-in gratings, e.g. foot-scrapers
37d-21/00	Implements for finishing work on buildings (designed specifically for special details provided for in the preceding groups, see the relevant groups for the details; for working or treating building elements of stone or stone-like materials 80d)
37d-21/02	. for applying plasticised masses to surfaces, e.g. plastering walls (specially for flooring 37d-21/20; implements for painting or decorating 75)
37d-21/04	. . Patterns or templates; Jointing rulers
37d-21/05	. . . Supports for jointing rulers
37d-21/06	. . Implements for applying plaster, insulating material, or the like

37d-21/08	. . . Mechanical implements (37d-21/14 takes precedence)
37d-21/10	. . . . centrifugally acting
37d-21/12	. . . . acting by gas pressure, e.g. steam pressure
37d-21/14	. . . in shafts, e.g. chimneys
37d-21/16	. . Implements for after-treatment of plaster or the like, e.g. smoothing-tools, profile trowels
37d-21/17	. . . Tools for cleaning joints; Jointers; Tools for filling cracks (bricklayers' tools 37e-21/16)
37d-21/18	. for setting wall or ceiling slabs or plates (tools for mosaic work 75b)
37d-21/20	. for laying flooring (made of similar material to roads or pavements 19c)
37d-21/22	. . of single elements, e.g. flooring cramps
37d-21/24	. . of masses made in situ, e.g. smoothing tools
37d-21/26	. for mounting staircases, e.g. tools for marking steps
37d-21/28	. for glazing (glass cutters 32a-33/10)
37d-21/30	. . Putty squeezers or guns
37d-21/32	. . Putty knives; Putty removers

37e Scaffolds

Work scaffolds for building purposes

37e-1	Pole and post scaffolds, dismantable scaffolds
37e-2	Ladder scaffolds (for domestic use 34l-23; for life saving 61a-1 – 61a-5; for sports purposes 77a-4/02, 77a-4/03, 77a-9/00, 77a-17/00 – 77a-17/04)
37e-3	Trestles
37e-4	Flying scaffolds (for domestic use 34l-23; for window cleaning 34c-4)
37e-5	Hanging scaffolds
37e-6/01	Moving scaffolds
37e-6/02	Lazy-tong scaffolds (assembling scaffolds for bridge construction 19d-7, 19d-19/10)
37e-6/03	Climbing scaffolds (as buildings installation 37f-2/02, 37f-5)
37e-7	Roofers' scaffolds, provided that they are not included in 37e-1 – 37e-6
37e-8/01	Scaffold holders and scaffold connections (fastening devices in general, for stone, wood and iron 37b-5)
37e-8/02	Scaffold-tube clamps (pipe clamps in general 47f-2/02)
	Moulding and centring apparatus for buildings (moulds for the production of articles from cement 80a-51)
	Moulding frames for constructing walls (construction of walls 37a-4, 37a-5)
37e-9/01	with wooden moulds
37e-9/02	with iron moulds
37e-9/03	for cavities in walls
37e-9/04	with rising moulds, sliding moulds
37e-9/05	with wall and ceiling moulds for complete stories
37e-10/01	Mould frames for constructing ceilings (construction of ceilings 37a-1 – 37a-3)
37e-10/02	Mould supports, mould holders
37e-10/03	Mould props (mine props 5c-10)
	Moulding and centring apparatus for the production
37e-11/01	of arches (bridge construction 19d-7, 19d-21/02; tunnel construction 19f-1, 19f-3/00)
37e-11/02	of chimneys
37e-11/03	of circular structures
37e-11/04	of columns
37e-11/05	of conduits (tunnelling 19f-1, 19f-3/00)
37e-12	Scaffolds, jacks, etc. for lifting and moving buildings
37e-13/01	Various auxiliary devices for scaffold construction
37e-13/02	Stone chutes
37e-13/03	Braces (mine props 5c-10; tunnelling 19f-4; foundations 84c-1)

- 37e-13/04 Tensioning devices, mould bolts
- 37e-13/05 Devices for cleaning mould boards (machines for processing used bricks 80d, 14)
- 37e-13/06 Wall building machines (devices for pouring concrete between mould walls 81e;
building material conveyors as elevators 35a; as cranes 35b; in general 81e;
distributing devices on scaffolds 81 e; wall building implements 37d-40)

37e (IPC: E04G) Scaffolding; Forms; Shuttering; Building implements and other building aids, and their use; Handling building materials on the site; Repairing, breaking-up and other work on existing buildings

Note:

In this subclass, the word "scaffolding" includes other supports for like purposes.

Workmen's or safety scaffolds

- 37e-1/00 Scaffolding primarily resting on the ground**
- 37e-1/02 . composed essentially of members elongated in one dimension only, e.g. poles, lattice masts, with or without end portions of special form, connected together by any means
- 37e-1/04 . . the members being exclusively poles, rods, beams, or other members of similar form and simple cross-section
- 37e-1/06 . . . comprising members with rod-like or tubular portions fitting together end to end, with or without separate connecting pieces
- 37e-1/08 . . . secured together by bolts or the like penetrating the members
- 37e-1/10 Timber-work constructions
- 37e-1/12 . . comprising members of special, e.g. composite, cross-section, or with lugs or the like or lateral apertures for supporting or attaching other members
- 37e-1/14 . comprising essentially pre-assembled frame-like or related elements, e.g. of rods in L, H, or box-shape, with or without bracing (37e-1/15 takes precedence)
- 37e-1/15 . essentially comprising special means for supporting or forming platforms (37e-1/20 takes precedence); Platforms
- 37e-1/16 . essentially comprising simple members and members formed so as to give rigidity to the structure
- 37e-1/18 . adjustable in height
- 37e-1/20 . . Scaffolding comprising upright members and provision for supporting cross-members or platforms at different positions therealong
- 37e-1/22 . . Scaffolding having a platform on an extensible substructure, e.g. of telescopic type or with lazy-tongs mechanism
- 37e-1/24 . comprising essentially special base constructions; comprising essentially special ground-engaging parts, e.g. inclined struts, wheels (component parts 37e-5/00)
- 37e-1/26 . Auxiliary structures for scaffolding, e.g. steps, canopies, railings
- 37e-1/28 . designed to provide support only at a low height
- 37e-1/30 . . Ladder scaffolding
- 37e-1/32 . . Other free-standing supports, e.g. using trestles (stands or trestles in general 47a2-11/00)
- 37e-1/34 . Scaffold constructions able to be folded in prismatic and/or flat parts or able to be turned down
- 37e-1/36 . Scaffolds for particular parts of buildings or buildings of particular shape, e.g. for stairs, cupolas, domes
- 37e-3/00 Scaffolds essentially supported by building constructions, e.g. adjustable in height (37e-1/00 takes precedence)**
- 37e-3/02 . for use without permanent provision on the building
- 37e-3/04 . . attached to the side of a building (37e-3/10 takes precedence)
- 37e-3/06 . . . comprising cantilevers which are detachably mounted on the building, e.g. in window openings
- 37e-3/08 . . . adapted to be attached to walls by hooks or the like, e.g. bracket scaffolds
- 37e-3/10 . . Hanging scaffolds, e.g. which can be shifted or have vertically-displaceable platforms

- 37e-3/12 . . Scaffolds specially adapted for working on roofs
- 37e-3/14 . . requiring permanent provision, e.g. rails, on the building; Permanent scaffold-like arrangements for inspection or repair work
- 37e-3/16 . . Movable platforms or cradles; Movable supports therefor (37e-3/10 takes precedence)
- 37e-5/00 Component parts for workmen's scaffolds (connections 37e-7/00)**
- 37e-5/02 . Scaffold feet, e.g. with arrangements for adjustment
- 37e-5/04 . Means for fastening, supporting, or bracing scaffolds on or against building constructions (fastenings in general 47a1)
- 37e-5/06 . Consoles; Brackets
- 37e-5/08 . Scaffold boards or planks (platforms 37e-1/16)
- 37e-7/00 Connections between parts of the scaffold (for building structures in general 37a-1/38; connections in general 47a1)**
- 37e-7/02 . with separate coupling elements
- 37e-7/04 . . Flexible elements, with or without brackets, e.g. ropes, cables, chains (in general 47d)
- 37e-7/06 . . Stiff scaffolding clamps for connecting scaffold members of common shape
- 37e-7/08 . . . Clamps for parallelly-arranged members
- 37e-7/10 Self-tightening clamps, e.g. stirrups
- 37e-7/12 Clamps or clips for crossing members (37e-7/22 takes precedence)
- 37e-7/14 for clamping the members independently
- 37e-7/16 of which the clamping parts for the different members are rotatable with respect to one another
- 37e-7/18 for clamping the members against one another or against a separate cushioning piece between them
- 37e-7/20 . . . for ends of members only, e.g. for connecting members in end-to-end relation
- 37e-7/22 . . . for scaffold members in end-to-side relation
- 37e-7/24 . . . Couplings involving arrangements covered by more than one of the groups 37e-7/08, 37e-7/12, 37e-7/20, 37e-7/22
- 37e-7/26 . . for use with specially-shaped scaffold members
- 37e-7/28 . . Clips or connections for securing boards (brackets 37e-5/06)
- 37e-7/30 . Scaffolding bars or members with non-detachably fixed coupling elements

Falsework, forms, or shutterings (scaffolding in general 37e-1/00; forms or shutterings forming part of the construction 37a, 37b)

- 37e-9/00 Forming or shuttering elements for general use**
- 37e-9/02 . Forming boards or similar elements (37e-9/08, 37e-9/10 take precedence)
- 37e-9/04 . . of wood
- 37e-9/06 . . of metal
- 37e-9/08 . Forming boards or similar elements, which are collapsible, foldable, or able to be rolled up
- 37e-9/10 . with additional peculiarities such as surface shaping, insulating or heating, permeability to water or air
- 37e-11/00 Forms, shutterings, or falsework for making walls, floors, ceilings, or roofs**
- 37e-11/02 . for rooms as a whole, whole storeys, or whole buildings
- 37e-11/04 . for structures of spherical, spheroid or similar shape, or for cupola structures of circular or polygonal horizontal or vertical section; Inflatable forms
- 37e-11/06 . for walls, e.g. curved (37e-11/04 takes precedence)
- 37e-11/08 . . Forms, which are completely dismantled after setting of the concrete and re-built for the next pouring (connecting or supporting means for forms 37e-17/00)
- 37e-11/10 . . . of elements without beams (37e-11/18 takes precedence)
- 37e-11/12 . . . of elements and beams (37e-11/18 takes precedence)
- 37e-11/14 with beams arranged in alignment with and between the elements
- 37e-11/16 with beams placed within the wall
- 37e-11/18 . . . for double walls

- 37e-11/20 . . Movable forms; Movable forms for moulding cylindrical, conical, or hyperbolic structures; Templates serving as forms for positioning blocks or the like (37e-11/04 takes precedence)
- 37e-11/22 . . . Sliding forms raised continuously or step-by-step and being in contact with the poured concrete during raising; Arrangements of lifting means therefor
- 37e-11/24 Construction of lifting jacks or climbing rods for sliding forms (climbing-type hoisting units in general 35d)
- 37e-11/26 . . . the sheathing of which consists of ribbons, endless aprons, or the like, guided by driven rollers
- 37e-11/28 . . . Climbing forms, i.e. forms which are not in contact with the poured concrete during lifting from layer to layer
- 37e-11/30 which are lifted from layer to layer by turning, tilting, or similar moving upwards about a horizontal axis
- 37e-11/32 . . . Tilttable forms or tilting tables for making walls as a whole or in parts in situ
- 37e-11/34 . . . Horizontally-travelling moulds for making walls blockwise or section-wise (37e-11/26 takes precedence)
- 37e-11/36 . for floors, ceilings, or roofs of plane or curved surfaces
- 37e-11/38 . . for plane ceilings of concrete
- 37e-11/40 . . for coffered or ribbed ceilings
- 37e-11/42 . . . with beams of metal or prefabricated concrete
- 37e-11/44 . . . with supporting beams for the shuttering used simultaneously as permanent reinforcement of the ribs
- 37e-11/46 . . . of hat-like or trough-like shape encasing a rib or the section between two ribs or encasing one rib and its adjacent flat floor or ceiling section
- 37e-11/48 . . Supporting structures for shutterings or frames for floors or roofs (struts 37e-25/00)
- 37e-11/50 . . . Girders, beams, or the like as supporting members for forms (members, e.g. consoles, for attachment to the wall 37e-17/16; girders intended to form part of the construction 37b-3/02)
- 37e-11/52 of several units arranged one after another
- 37e-11/54 of extensible type, with or without adjustable supporting shoes, fishplates, or the like
- 37e-11/56 of telescopic type
- 37e-13/00 Falsework, forms, or shutterings for particular parts of buildings, e.g. stairs, steps, cornices, balconies**
- 37e-13/02 . for columns or like pillars; Special tying or clamping means therefor
- 37e-13/04 . for lintels, beams, or transoms to be encased separately; Special tying or clamping means therefor (members, e.g. consoles, for attachment to the wall 37e-17/16)
- 37e-13/06 . for stairs, steps, cornices, balconies, or other parts corbelled out of the wall
- 37e-15/00 Forms or shuttings for making openings, cavities, slits, or channels (forming part of shuttering for walls 37e-11/06)**
- 37e-15/02 . for windows, doors, or the like
- 37e-15/04 . Cores for anchor holes or the like
- 37e-15/06 . for cavities or channels in walls or floors, e.g. for making chimneys
- 37e-17/00 Connecting or other auxiliary members for forms, falsework structures, or shutterings**
- 37e-17/02 . Connecting or fastening means for non-metallic forming or stiffening elements
- 37e-17/04 . Connecting or fastening means for metallic forming or stiffening elements
- 37e-17/06 . Tying means; Spacers
- 37e-17/08 . . Tying rods
- 37e-17/10 . . Tying means with wires, bands, cables, or similar flexible means as tensile members
- 37e-17/12 . . with arms engaging the forms
- 37e-17/14 . Bracing or strutting arrangements for formwalls; Devices for aligning forms (37e-25/00 takes precedence)
- 37e-17/16 . Members, e.g. consoles, for attachment to the wall to support girders, beams, or the like carrying forms or moulds for floors, lintels, or transoms

37e-17/18	. Devices for suspending or anchoring form elements to girders placed in ceilings, e.g. hangers
37e-19/00	Auxiliary treatment of forms, e.g. dismantling; Cleaning devices (lubricants for encasing purposes 23c)
37e-21/00	Preparing, conveying, or working-up building materials or building elements in situ; Other devices or measures for constructional work (working stone-like materials 80d; conveying in general 81e; lifting devices 35; measuring instruments 42)
37e-21/02	. Conveying or working-up concrete or similar masses able to be heaped or cast (working concrete in general, e.g. mixing machines, 80a; composition of concrete 80b; construction and surfacing of floorings made of similar material to roads or pavements 19c; in connection with barrages 84a-7/00; in connection with foundations 84c-15/00; in connection with finishing work 37d)
37e-21/04	. . Devices for both conveying and distributing (concrete pumps 59e)
37e-21/06	. . Solidifying concrete, e.g. by application of vacuum before hardening (for road building 19c-19/00; devices for solidifying also soil 84c-3/02)
37e-21/08	. . . Internal vibrators
37e-21/10	. . Devices for levelling, e.g. templates or boards (smoothing tools 37d-21/16, 37d-21/24)
37e-21/12	. Mounting of reinforcing inserts; Prestressing (shell tubes for prestressing members 37b-5/10; anchoring means 37b-5/12; connections of reinforcing elements and spacers 37b-5/16)
37e-21/14	. Conveying or assembling building elements (roofing 37c; finishing work 37f)
37e-21/16	. . Tools or apparatus (devices for erecting fences 37f-17/26)
37e-21/18	. . . Adjusting tools; Templates
37e-21/20	. . . for applying mortar
37e-21/22	. . . for setting building elements with mortar, e.g. brick-laying machines
37e-21/24	. Safety or protective measures preventing damage to building parts or finishing work during construction (as auxiliary structures for scaffolding 37e-1/26)
37e-21/26	. . Strutting means for wall parts; Supports or the like, e.g. for holding in position prefabricated walls (37e-25/00 takes precedence; on existing buildings 37e-23/04)
37e-21/28	. . against unfavourable weather influence
37e-21/30	. . against mechanical damage or dirt, e.g. guard covers of stairs
37e-21/32	. Safety or protective measures for persons during the construction of buildings (relating to scaffolding 37e-1/00, 37e-3/00; ropes or belts for life saving 61a-8; climbing tools, e.g. climbing irons for masts 77a-27/00)
37e-23/00	Working measures on existing buildings (on foundations 84c-35/00, 84c-37/00; in connection with insulations 37a; subsequent or finishing work 37d)
37e-23/02	. Repairing, e.g. filling cracks; Restoring; Altering; Enlarging
37e-23/04	. Propping of endangered or damaged buildings or building parts, e.g. with respect to air-raid action (struts 37e-25/00)
37e-23/06	. Separating, lifting, removing of buildings; Making a new substructure
37e-23/08	. Wrecking of buildings (of fences 37f-17/26)
37e-25/00	Shores or struts (specially designed for use in mines 5c-15/00); Chocks
37e-25/02	. non-telescopic
37e-25/04	. telescopic
37e-25/06	. . with parts held together by positive means
37e-25/08	. . with parts held relatively to each other by friction or gripping
37e-27/00	Temporary arrangements for giving access from one level to another for men or vehicles, e.g. steps, ramps (for scaffolding 37e-1/26; gangways 65; lifts 35a; portable bridges 19d-15/00; permanent stairways or ramps 37d-11/00; ladders 37g2)

37f Residential and commercial building structures

- 37f-1/01 Theatres, structural arrangement of stages and auditoriums, revolving stages, elevator stages, open-air stages, observatories (fire extinguishing installations 61a-17, 61a-18; theatre wings, curtains, decorations 77g-1, 77g-3)
- 37f-1/02 Structural equipment in buildings for improving and damping sound (insulation of buildings from external noise 37a-7/01, 37b-6; sound analysis 42g-1/01)
- 37f-1/03 Public amusement buildings, restaurants, panoramas (interior equipment of panoramas 77g-4, 77g-13/00)
- 37f-1/04 Buildings for sports purposes, fixed and floating swimming pools (water purification 85b-1 – 85b-4; solar baths 21g-25, 21g-26; flowing-water and hip bathtubs 34k-5, 30f-11), wave producing equipment
- 37f-2/01 Agricultural buildings, farm buildings, stables, manure containers, storage houses, barns (manure yards 45b-2, 45b-3/00 – 45b-3/02; stable equipment 45h-1)
- 37f-2/02 Silos, coal bunkers, ore bunkers (ventilation equipment 81e-137; acid-proof linings 80b-13, 37f-3; silo cover fasteners 45e-29, 45e5/16; malt and hop kilns 6a-6, 6a-7, 6a-11; ore bunkers 81e-133; emptying and closing devices 81e-134 – 81e-136; fermentation vats 6b-17; heating 36c; ventilation 36d)
- 37f-2/03 Ice cellars and storage cellars
- 37f-2/04 Greenhouses, structural part (green and hothouse equipment 45f-9)
- 37f-3/01 Fixed gas holders, tank foundation, structure of reservoir walls and external supporting structures, supports and reinforcements, roof supports and structures, methods for the construction and elevation of gasholders (dry gasholders, telescopic gasholders, bell guides and tank lining, as well as other interior equipment and tank ventilation 4c-33 – 4c-38)
- 37f-3/02 Fixed elevated tanks for storing water, tank foundation, structure of tank walls and external supporting structures, braces and reinforcements, roof supports and structures (tanks for storing and preserving liquid fuels 34i-20, 81e-139, 81e-143; tanks for storing acids and acid-proof linings therefor 12f-3; household water tanks 85d-3)
- 37f-4 Collapsible, transferable, mobile and revolving structures, huts, collapsible tents and towers (fixed tents and masts 33d-1; greenhouses 45f-9/03, 45f-9/06)
- 37f-5 Chimney construction, house and factory chimneys of bricks, concrete, reinforced concrete, and iron, single and double casing chimneys, flue gas channels (structure), shapes (chimney pots 24i-9, 24i-10; smoke exhaust pipes for locomotive sheds 24g-1), fixed scaffolds for climbing and repairing chimneys (scaffolds for the construction of chimneys 37e-11), scaffolds for cooling towers (internal equipment of cooling towers 17e-1)
- 37f-6 Garbage chutes and ducts
- 37f-7/01 Building installations in general (walls, ceilings 37a-1 – 37a-5; safes, vaults 68e; slaughterhouses 66a; bulletproof rooms 72e, 72g)
- 37f-7/02 Garages: ramp garages, elevator garages, small garages (elevators 35a; automobile accessories 63c-91)
- 37f-7/03 Garage doors, when significant as structural component (door fittings 68c; door operators 68d; doors 37d-18 – 37d-22)
- 37f-7/04 Steel houses
- 37f-7/05 Steel skeleton constructions (walls, ceilings 37a; beams, columns 37b)
- 37f-7/10 Machine bases
- 37f-7/11 Earthquake-proof constructions (protection against vibrations caused by street traffic 19c; vibration meters 42c-42)
- 37f-7/15 Department stores
- 37f-7/16 Libraries
- 37f-7/17 Hoist frames (hoist frame equipment 35a, 905)
- 37f-7/18 Soundproof telephone booths

- 37f-8 Airship hangars, airplane hangars and tents, also doors, if extending across the whole length of the hangar side (door hinges, suspensions for sliding doors, and door fittings 68c-1 – 68c-10; doors 37d-18 – 37d-24)
- 37f-9 Grave equipment and enclosures, tombstone and crosses with accessories, concrete coffins, vaults

37f (IPC: E04H) Buildings or like structures for special purposes; Masts; Fencing (foundations 84c)

Note:

This subclass deals primarily with the layout of buildings as a whole, but includes details which are peculiar to types of buildings, or buildings for special purposes specified in the groups. The word "buildings" does not exclude engineering structures and other erections.

- 37f-1/00 Buildings or groups of buildings for dwelling, business or commercial purposes** (37f-11/00 takes precedence; building construction in general 37a-1/00)
- 37f-1/02 . Dwelling houses; Buildings for temporary habitation
- 37f-1/04 . . Apartment houses arranged in two or more levels and with connecting corridors or passages outside the apartments
- 37f-1/06 . Business houses; Buildings for commercial purposes (37f-1/08 takes precedence; for industrial purposes 37f-5/02)
- 37f-1/08 . Selling stands; Kiosks; Waiting shelters; Other small buildings for limited occupation
- 37f-1/10 . . Boxes or cells erected in the open air or arranged in buildings, e.g. watchmen's huts, telephone cabinets, dressing cubicles (moveable screens as household equipment 34f-5/00)
- 37f-1/00 Buildings or groups of buildings for dwelling or office purposes; General lay-out, e.g. modular co-ordination, staggered storeys** (37f-3/00 takes precedence; buildings for two or more purposes, e.g. drive-in buildings, 37f-14/00; building construction in general 37a-1/00)
- 37f-1/02 . Dwelling houses; Buildings for temporary habitation (small erections for limited occupation 37f-1/12)
- 37f-1/04 . . Apartment houses arranged in two or more levels
- 37f-1/06 . Office buildings; Banks (37f-1/12 takes precedence)
- 37f-1/12 . Small buildings or other erections for limited occupation, erected in the open air or arranged in buildings, e.g. kiosks, waiting shelters for bus stops or for filling stations, roofs for railway platforms, watchmen's huts, dressing cubicles (movable screens as household equipment 34f-5/00)
- 37f-1/14 . . Telephone cabinets
- 37f-3/00 Buildings or groups of buildings for public or similar purposes; Institutions, e.g. infirmaries, prisons** (portions of buildings for individual occupation, e.g. cubicles 37f-1/00; structures covering a large free area 37a-1/342)
- 37f-3/02 . Hotels; Motels; Coffee-houses; Restaurants; Shops; Department stores
- 37f-3/04 . . Restaurants or shops having arrangements for self-service
- 37f-3/06 . Museums; Library buildings
- 37f-3/08 . Hospitals, infirmaries, or the like; Schools; Prisons
- 37f-3/10 . for meetings, entertainments, or sports
- 37f-3/12 . . Tribunes or grandstands (chairs, stools, benches 34g)
- 37f-3/14 . . Gymnasiums; Other sporting buildings (tribunes 37f-3/12)
- 37f-3/16 . . . for swimming
- 37f-3/18 Swimming or splash basins
- 37f-3/19 Safety devices; Coverings for basins
- 37f-3/20 Devices for removal of polluted water; Devices for cleaning basins or for water treatment
- 37f-3/22 . . Theatres; Concert halls (drive-in buildings 37f-14/00; equipment for theatres or concert halls 77g)
- 37f-3/24 . . . Constructional features of stages

- 37f-3/26 Revolving stages; Stages able to be lowered (devices for raising or lowering persons 77g-5/12)
- 37f-3/28 Shiftable or portable platforms
- 37f-3/30 Constructional features of auditoriums (chairs, stools, benches 34g; building details providing acoustical effects 37a-1/99)

37f-5/00 Buildings or groups of buildings for industrial or agricultural purposes; Building structures for parking vehicles or cars

- 37f-5/02 . Buildings or groups of buildings for industrial purposes, e.g. for power-plant, factories (buildings forming part of cooling plants 37f-5/10; building structures for parking vehicles or cars 37f-5/14; hangar-like buildings or halls 37f-15/16)
- 37f-5/04 . . Transformer houses
- 37f-5/06 . . Pits or building structures for inspection or services (manhole shafts or other inspection chambers in general 84c-29/12)
- 37f-5/08 . Buildings or groups of buildings for agricultural purposes (silos 37f-7/22; manure places 45b-3/02; greenhouses 45f-9/14)
- 37f-5/10 . Buildings forming part of cooling plants (walls in general 37a-3/00)
- 37f-5/12 . . Cooling towers (towers in general 37f-11/24; cooling equipment 17e)
- 37f-5/14 . Buildings for parking vehicles or cars, e.g. garages (hangar-like buildings or halls 37f-15/16; marking of parking areas on the ground 19e-9/00; construction of ground-supported surfaces 19c; bicycle stands 63f)
- 37f-5/16 . . Small garages, e.g. for one or two cars (prefabricated and with undivided interior 37f-11/04; tents for use as garages 37f-15/20; attached to or supported by the vehicle 63c-91)
- 37f-5/18 . . . wheeled, hinged foldable, telescopic, swinging, or otherwise movable (transportable or collapsible buildings in general 37f-15/02)
- 37f-5/20 . . . with movable floors or floor sections
- 37f-5/22 . . Garages for many vehicles without arrangements for shifting or lifting vehicles mechanically
- 37f-5/24 . . . Garages with ramps, e.g. helically arranged
- 37f-5/26 with swingable, liftable, or shiftable ramps
- 37f-5/28 . . Garages for many vehicles with arrangements for shifting or lifting vehicles mechanically
- 37f-5/30 . . . with endless conveyer chains (carrying vehicles only horizontally 37f-5/38)
- 37f-5/32 . . . with lifting means movable vertically or independently vertically and horizontally (with vertical conveyers, e.g. paternoster lifts 37f-5/30)
- 37f-5/34 . . . Garages in the form of a wheel or drum with horizontal axis
- 37f-5/36 . . . Garages with turn-tables or rotary rings with vertical axes, without provision for vertical movement
- 37f-5/38 . . Garages with means for carrying vehicles only horizontally, e.g. with shiftable platforms (37f-5/36 takes precedence)
- 37f-5/40 . . Devices or arrangements special to garages, not provided for elsewhere, e.g. special securing devices

37f-5/00 Buildings or groups of buildings for industrial or agricultural purposes (building construction in general 37a-1/00)

- 37f-5/02 . Buildings or groups of buildings for industrial purposes, e.g. for power-plants, factories (buildings forming part of cooling plants 37f-5/10; building structures for parking vehicles 37f-6/00)
- 37f-5/04 . . Transformer houses
- 37f-5/06 . . Pits or building structures for inspection or services (manhole shafts or other inspection chambers in general 84c-29/12)
- 37f-5/08 . Buildings or groups of buildings for agricultural purposes (silos 37f-7/22; manure storage places 45b-3/02; greenhouses 45f-9/14)
- 37f-5/10 . Buildings forming part of cooling plants
- 37f-5/12 . . Cooling towers (towers in general 37f-12/00; cooling equipment 17e)

37f-6/00	Buildings for parking cars, rolling-stock, aircraft, vessels, or like vehicles, e.g. garages (building construction in general 37a-1/00; marking of parking areas on the ground 19e; construction of ground-supported surfaces 19c; storing of vessels on land 65b-15/00)
37f-6/02	. Small garages, e.g. for one or two cars (prefabricated and with undivided interior 37a-1/343; tents for use as garages 37a-1/347)
37f-6/04	. . wheeled, hinged, foldable, telescopic, swinging, or otherwise movable (transportable or collapsible buildings in general 37a-1/343)
37f-6/06	. . with means for shifting or lifting vehicles
37f-6/08	. Garages for many vehicles
37f-6/10	. . without mechanical means for shifting or lifting vehicles, e.g. with helically-arranged fixed ramps, with movable ramps
37f-6/12	. . with mechanical means for shifting or lifting vehicles
37f-6/14	. . . with endless conveyer chains having load-carrying parts moving vertically, e.g. paternoster lifts
37f-6/16	. . . Garages shaped as a wheel or drum rotatable about horizontal axis
37f-6/18	. . . with means for transport in vertical direction only or independently in vertical and horizontal directions (37f-6/14 takes precedence)
37f-6/20	. . . . characterised by use of conveyer chains or rotatable rollers for horizontal transport
37f-6/22	. . . . characterised by use of movable platforms for horizontal transport
37f-6/24	. . . . characterised by use of dollies for horizontal transport
37f-6/26	. . . . characterised by use of tiltable floors or floor sections; characterised by use of movable ramps
37f-6/28	. . . . characterised by use of turntables or rotary rings for horizontal transport
37f-6/30	. . . with means for transport in horizontal direction only
37f-6/32	. . . . characterised by use of conveyer chains or rotatable rollers
37f-6/34	. . . . characterised by use of movable platforms
37f-6/36	. . . . characterised by use of freely-movable dollies
37f-6/38	. . . . characterised by use of tiltable floors or floor sections
37f-6/40	. . . . characterised by use of turntables or rotary rings
37f-6/42	. Devices or arrangements peculiar to garages, not covered elsewhere, e.g. securing devices, safety devices
37f-6/44	. for storing aircraft (structures covering a large free area 37a-1/342)
37f-7/00	Containers constructed in the manner of buildings; Constructional features of containers for liquids in bulk or of similar containers for gases or fluent solids; Supports therefor (tower aspects 37f-14/00; foundations 84c-27/38; other features of storage containers 81e-133 – 81e-137, 81e-139, 81e-143)
37f-7/02	. Containers for fluids or gases; (arrangements or connection of water reservoirs 85d-3)
37f-7/04	. . mainly of metal
37f-7/06	. . . with vertical axis
37f-7/08	. . . . with telescopically-movable ring-shaped parts (sealing of rings 47f2)
37f-7/10	. . . . with moving discs (sealing of discs 47f2)
37f-7/12	. . . . with floating roofs (sealing of roofs 4c-33, 4c-35)
37f-7/14	. . . ball-shaped
37f-7/16	. . . with horizontal axis
37f-7/18	. . mainly of concrete, e.g. reinforced concrete, or other stone-like material
37f-7/20	. . . Prestressed constructions
37f-7/22	. Silos, bunkers, or similar containers
37f-7/24	. . Constructions, with or without perforated walls, depending on the use of specified materials (37f-7/34 takes precedence)
37f-7/26	. . . mainly of concrete, e.g. reinforced concrete or other stone-like material
37f-7/28	. . . . composed of special building elements
37f-7/30	. . . mainly of metal
37f-7/32	. . . mainly of wood
37f-7/34	. . Silos with special conditioning arrangements (drying arrangements 82a)

37f-9/00	Buildings, groups of buildings, or shelters, adapted to withstand or provide protection against, abnormal external influences, e.g. war-like action, earthquake, extreme climate (foundation aspects 84c; building constructions in general 37a)
37f-9/02	. withstanding earthquake or sinking of ground (foundations 84c-27/34)
37f-9/04	. against air-raid or other warlike actions (respiratory apparatus 61a-29)
37f-9/06	. . Structures arranged in or forming part of buildings
37f-9/08	. . . Structures arranged underneath buildings, e.g. air-raid shelters
37f-9/10	. . Independent shelters; Arrangement of independent splinter-proof walls
37f-9/12	. . . entirely underneath the level of the ground, e.g. air-raid galleries (mine galleries 5c; tunnels 19f)
37f-9/14	. against other dangerous influences, e.g. tornadoes, floods
37f-9/16	. against adverse conditions, e.g. extreme climate, pests
37f-11/00	Enclosures or corrals
37f-11/02	. Fences; Fencing (features peculiar to electrified fences 45h-3 00; 21g-7/02)
37f-11/04	. . made from wood
37f-11/06	. . made from metal (wire netting 7d-27/00; other metal fabrics in the relevant classes)
37f-11/08	. . made from concrete, with or without reinforcement
37f-11/10	. . Fence posts
37f-11/12	. . . made from wood
37f-11/14	. . . made from metal
37f-11/16	. . . made from concrete, with or without reinforcement
37f-11/18	. . . Specially-formed parts entering the ground, e.g. concrete sub-parts of fence posts (sockets for posts 37f-15/38)
37f-11/20	. . Devices for erecting or removing fences
37f-11/22	. Means for allowing passages through or over fences or walls (road-traffic barriers 19e-13/00; cattle-guards 45h-3/00)
37f-11/24	. . Gates; Doors (for railway crossings 20i; in buildings 37g1; fittings, operating mechanisms 68)
37f-11/26	. . . made from wood
37f-11/28	. . . made from metal
37f-11/30	. . Turnstiles (with devices for registration 43a2-9/02; coin-freed 43b-17/14)
37f-12/00	Towers; Masts, poles; Chimney-stacks; Water-towers; Methods of erecting such structures (cooling-towers 37f-5/12; devices for erecting masts or poles 35d; foundation piles 84c-5/22; foundations for masts, poles, or chimneys 84c-27/42; structural elongated members in general 37b-3/00; fixed climbing irons 37g2-9/04; derricks for oil drilling 5a-15/00)
37f-12/02	. Structures made of specified materials (37f-12/16, 37f-12/18 take precedence)
37f-12/04	. . of wood
37f-12/06	. . . Truss-like structures
37f-12/08	. . of metal
37f-12/10	. . . Truss-like structures
37f-12/12	. . of concrete or other stone-like material, with or without internal or external reinforcement, e.g. with metal coverings, with permanent form elements
37f-12/14	. . . Truss-like structures
37f-12/16	. Prestressed structures
37f-12/18	. movable or with movable sections, e.g. using guy ropes, struts (rotary buildings 37a-1/346)
37f-12/20	. Side-supporting means therefor, e.g. using guy ropes, struts (ground anchors 84c-5/80; fastening means for cables or ropes 47d-11/00)
37f-12/22	. Sockets or holders for poles or posts
37f-12/24	. Cross-arms
37f-12/26	. Winding-towers for mines (lifting devices 35a)
37f-12/28	. Chimney stacks, e.g. free-standing, or similar ducts (foundations 84c-27/42; chimneys as part of buildings 37d-17/02)
37f-12/30	. Water-towers
37f-12/32	. Flagpoles

37f-12/34	. Arrangements for erecting or lowering towers, masts, poles, chimney stacks, or the like (special lifting devices therefor 35d-11/02)
37f-13/00	Monuments; Tombs; Burial vaults; Columbaria (sculpture or other artistic features 75)
37f-14/00	Buildings for combinations of different purposes not covered in a single previous group of this sub-class, e.g. for double purpose (37f-3/02, 37f-9/06 take precedence); Buildings of the drive-in type
37f-15/00	Other buildings of special type (building construction in general 37a-1/00)
37f-15/02	. Buildings transportable as a whole or in sections; Collapsible buildings (tent-like buildings 37f-15/20; hangar-like buildings 37f-15/16; small garages 37f-5/16; caravans, self-propelled or without drive 63c; railway vehicles 20c)
37f-15/04	. . Buildings composed of separable parts; Small prefabricated buildings with undivided interior (37f-15/06, 37f-15/12, 37f-15/14 take precedence)
37f-15/06	. . Buildings with inflatable walls, roofs, or other parts
37f-15/08	. Rotary buildings; Buildings with rotary units, e.g. rooms
37f-15/10	. Buildings composed of box-like or cell-like units, closed or in skeleton form, at least the size of a room or part of a room
37f-15/12	. Buildings with specially-arranged storeys, e.g. staggered storeys, with special arrangements of floor levels
37f-15/14	. Buildings of light construction, comprising skeleton frames to which panels or sheets, e.g. of glass, are attached (specially adapted for the culture of plants 45f-9/14)
37f-15/16	. Hangar-like buildings, i.e. covering a large free area, whether open-sided or not (37f-15/20 takes precedence, roofs for halls 37a-7/00; trusses for halls 37b-3/02)
37f-15/18	. . Hangars or other halls with removable or disappearing walls, e.g. for aircraft (wall constructions 37a-3/00; doors of equivalent closures of limited size 37g1)
37f-15/20	. Tent-like buildings, e.g. with flexible roofs suspended from or resting on supports; Tents for building-like purposes, e.g. marquees (tents for a small number of persons 33d-1/01 – 33d-1/05)
37f-15/22	. Towers; Masts; Poles (winding towers for mines 37f-15/40; cooling towers 37f-5/12; fixed climbing irons 37g2-9/04; foundations for masts or poles 84c-27/42; devices for erecting masts or poles 35d)
37f-15/24	. . Constructions depending on the use of special materials (37f-15/32, 37f-15/34 take precedence)
37f-15/26	. . . of wood
37f-15/28	. . . of metal
37f-15/30	. . . of concrete or other stone-like material, with or without reinforcement or tensioning coverings
37f-15/32	. . Pre-stressed constructions
37f-15/34	. . movable or with movable sections, e.g. rotatable, telescopic; Poles able to be quickly set up or dismantled
37f-15/36	. . Guy ropes; Side supports; Anchoring means therefor (ground anchors 84c-5/76)
37f-15/38	. . Sockets or holder for poles or posts
37f-15/40	. Winding towers for mines (towers in general 37f-15/22; lifting devices 35)
37f-15/42	. Chimney stacks or similar ducts, whether self-supporting or not (chimneys as parts of buildings 37d-17/02; foundations 84c-27/42; connections between furnace and smoke stack, chimney equipment 24g)
37f-17/00	Fencing, e.g. fences, enclosures, corrals (features peculiar to electrified fences 45h-3/00; means for allowing passage through fences, barriers, or the like 37g1-11/00)
37f-17/02	. Wire fencing (37f-17/14 takes precedence)
37f-17/04	. . using wire, barbed wire, wire mesh, toothed strips, or the like; Coupling means therefor (wire netting 7d-27/00; other metallic fabrics, see the relevant classes)
37f-17/06	. . Parts for wire fences
37f-17/08	. . . Anchoring means therefor, e.g. specially-shaped parts entering the ground; Struts or the like (for towers or masts 37f-12/20; sockets for posts 37f-12/22)
37f-17/10	. . characterised by the way of connecting wire to the posts; Droppers

- 37f-17/12 . . . the wire being placed in slots, grooves, or the like
- 37f-17/14 . Fences constructed of rigid elements, e.g. with posts, with additional wire fillings
- 37f-17/16 . . using prefabricated panel-like elements, e.g. wired frames
- 37f-17/18 . . . Corrals, i.e. easily transportable or demountable enclosures
- 37f-17/20 . . Posts therefor
- 37f-17/22 . . . Anchoring means therefor, e.g. specially-shaped parts entering the ground;
Struts or the like (for towers or masts 37f-12/20; sockets for posts 37f-12/22)
- 37f-17/24 . . Connections for attaching additional wire to frames, posts or railings
- 37f-17/26 . Devices for erecting or removing fences

37g1 (IPC: E06B) Doors, windows, shutters, or roller blinds in general
(shades or blinds for greenhouses or the like 45f-9/22; curtains 34e; skylights 37a-7/18; sunshades, awnings 37d-10/00; fittings, operating-mechanisms 68; suspension devices 68d)

Note:

In this subclass the word "wing" denotes a swingable or otherwise movable member, e.g. a door a window, for closing an opening. The term "wing frame" denotes the moving frame of a wing, and includes in addition a fixed inner window-frame of similar construction.

- 37g1-1/00 Border constructions of openings in walls, floors, or ceilings; Frames to be rigidly mounted in such openings** (37g1-5/00 takes precedence; features relating also to inner frames or wing frames, features relating solely to the mounting of inner frames 37g1-3/00)
- 37g1-1/02 . 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
 - 37g1-1/04 . Frames for doors, windows, or the like to be fixed in openings (special adaptations for fixing in base frames 37g1-1/02; features relating solely to the mounting of glass panes or other sheets 37g1-3/00)
 - 37g1-1/06 . . Wooden frames
 - 37g1-1/08 . . . composed of several parts with respect to the cross-section of the frame itself
 - 37g1-1/10 adjustable with respect to the thickness of walls
 - 37g1-1/12 . . Metal frames
 - 37g1-1/14 . . . of special cross-section (37g1-1/18, 37g1-1/22 take precedence)
 - 37g1-1/16 Hollow frames
 - 37g1-1/18 . . . composed of several parts with respect to the cross-section of the frame itself
 - 37g1-1/20 adjustable with respect to the thickness of walls
 - 37g1-1/22 . . . with integral thresholds of special form
 - 37g1-1/24 . . Frames of natural stone, concrete, or other stone-like material
 - 37g1-1/26 . . Frames of plastics
 - 37g1-1/28 . . . Hollow frames (37g1-1/30 takes precedence)
 - 37g1-1/30 . . . composed of several parts with respect to the cross-section of the frame itself
 - 37g1-1/32 . . Frames composed of parts made of different materials
 - 37g1-1/34 . . Coverings, e.g. protecting against weather, for decorative purposes
 - 37g1-1/36 . . Frames uniquely adapted for windows
 - 37g1-1/38 . . . for shop, show, or like large windows
 - 37g1-1/40 . . . Frames with parts removable to admit the glass (37g1-1/38 takes precedence)
 - 37g1-1/52 . . Frames specially adapted for doors
 - 37g1-1/56 . Fastening frames to the border of openings
 - 37g1-1/58 . . by filling-up the joints, e.g. by cementing
 - 37g1-1/60 . . by mechanical means, e.g. anchoring means
 - 37g1-1/62 . Tightening or covering joints between the border of openings and the frame (37g1-1/34 takes precedence)
 - 37g1-1/64 . . by loosely-inserted means, e.g. strip, resilient tongue
 - 37g1-1/66 . . by labyrinth packings
 - 37g1-1/68 . . by profiled external parts
 - 37g1-1/70 . Sills; Thresholds

37g1-3/00	Window sashes, door leaves, or like elements for closing wall or like openings; Lay-out of fixed or moving closures, e.g. windows, in wall or like openings; Features of rigidly-mounted outer frames relating to the mounting of wing frames (37g1-5/00 takes precedence; shutters or the like 37g1-9/00; glass panes 32)
37g1-3/01	. Removable or disappearing walls for hangars or other halls, e.g. for aircraft (wall constructions 37a-2/00)
37g1-3/02	. Wings made completely of glass
37g1-3/04	. Wing frames not characterised by the manner of movement (features relating to the manner of movement 37g1-3/32)
37g1-3/06	. . Single frames
37g1-3/08	. . . Constructions depending on the use of specified materials (37g1-3/24 takes precedence)
37g1-3/10	. . . . of wood
37g1-3/12	. . . . of metal
37g1-3/14	. . . . . of special cross-section
37g1-3/16	. . . . . Hollow frames
37g1-3/18	. . . . of concrete or other stone-like material
37g1-3/20	. . . . of plastics
37g1-3/22	. . . . . Hollow frames
37g1-3/24	. . . specially adapted for double glazing (separable parts for securing panes 37g1-3/64)
37g1-3/26	. . Compound frames, i.e. one frame within or behind another (37g1-3/28 takes precedence; arrangements of movable frames 37g1-3/32)
37g1-3/28	. . with additional removable glass panes or the like, framed or unframed
37g1-3/30	. Coverings, e.g. protecting against weather, for decorative purposes
37g1-3/32	. 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 (fittings or supporting means, separable from the frame, for guiding or controlling the movement of wings, arrangements of wings characterised by particular forms of such means 68)
37g1-3/34	. . with only one kind of movement (37g1-3/48 takes precedence)
37g1-3/36	. . . with a single vertical axis of rotation at one side of the opening, or swinging through the opening (wings requiring lifting before opening 37g1-3/52)
37g1-3/38	. . . with a horizontal axis of rotation at the top or bottom of the opening
37g1-3/40	. . . with a vertical or horizontal axis of rotation not at one side of the opening, e.g. turnover wings
37g1-3/42	. . . Sliding wings; Details of frames with respect to guiding
37g1-3/44	. . . . Vertically-sliding wings
37g1-3/46	. . . . Horizontally-sliding wings
37g1-3/48	. . Wings connected at their edges, e.g. foldable wings
37g1-3/50	. . with more than one kind of movement (37g1-3/48 takes precedence)
37g1-3/52	. . . Wings requiring lifting before opening
37g1-3/54	. Fixing of glass panes or like plates
37g1-3/56	. . by means of putty, cement, or adhesives only (37g1-3/64 takes precedence)
37g1-3/58	. . by means of borders, cleats, or the like (37g1-3/64 takes precedence)
37g1-3/60	. . . of clamping cleats of metal
37g1-3/62	. . . of rubber-like elastic cleats
37g1-3/64	. . Fixing of more than one pane to a frame
37g1-3/66	. Units comprising two or more parallel glass or like panes permanently secured together
37g1-3/68	. Window bars
37g1-3/70	. Door leaves (wing frames 37g1-3/04)
37g1-3/72	. . consisting of frame and panels
37g1-3/74	. . . with wooden panels
37g1-3/76	. . . with metal panels
37g1-3/78	. . . with panels of plastics
37g1-3/80	. . flexible
37g1-3/82	. . Flush doors, i.e. with completely flat surface (37g1-3/02 takes precedence)
37g1-3/84	. . . of plywood

- 37g1-3/86 . . . of plastics
- 37g1-3/88 . . Edge-protecting devices for door leaves
- 37g1-3/90 . Revolving doors; Cages or housings therefor (turnstiles 37g1-11/08)
- 37g1-3/92 . Doors or windows extensible when set in position (sliding wings for windows 37g1-3/42; foldable wings 37g1-3/48; wall-closing devices which may be rolled up, e.g. shutters, 37g1-9/08)
- 37g1-3/94 . . Doors of the bellows type
- 37g1-5/00 Doors, windows, or like closures for special purposes; Border constructions therefor**
- 37g1-5/01 . Trap-doors
- 37g1-5/02 . for out-buildings or cellars; Other simple closures not designed to be close-fitting
- 37g1-5/04 . . with fixed wooden frames
- 37g1-5/06 . . with fixed metal frames
- 37g1-5/08 . . with fixed frames made of concrete, stone-like material, or plastics
- 37g1-5/10 . for protection against air-raid or other war-like action; for other protective purposes
- 37g1-5/12 . . against air pressure, explosion, or gas
- 37g1-5/14 . . . Gasproof doors or similar closures; Adaptation of fixed constructions therefor
- 37g1-5/16 . . Fireproof doors or similar closures; Adaptations of fixed constructions therefor
- 37g1-5/18 . . against harmful radiation (against heat 37g1-5/16)
- 37g1-5/20 . for insulation against noise
- 37g1-7/00 Special arrangements or measures in connection with doors or windows (screening or similar protective devices 37g1-9/00)**
- 37g1-7/02 . for providing ventilation, e.g. through double windows; Arrangement of ventilation roses
- 37g1-7/03 . . Ventilating devices for inserting under upwardly-sliding windows (rain or draught deflectors 37g1-7/26)
- 37g1-7/04 . . with ventilation wings (37g1-7/08 takes precedence)
- 37g1-7/06 . . . with one ventilation wing only
- 37g1-7/08 . . Louvre doors, windows, or grilles
- 37g1-7/082 . . . with rigid or slidable lamellae
- 37g1-7/084 . . . with rotatable lamellae
- 37g1-7/10 . . by special construction of the frame members
- 37g1-7/12 . Measures preventing the formation of condensed water (double glazing 37g1-3/24 to 37g1-3/28)
- 37g1-7/14 . Measures for draining-off condensed water or water leaking-in
- 37g1-7/16 . Special sealing arrangements on wings or parts co-operating with the wings (fixed rigid stop strips 37g1-1/64)
- 37g1-7/18 . . by means of movable edgings, e.g. draught sealings additionally used for bolting
- 37g1-7/20 . . . automatically withdrawn when the wing is opened
- 37g1-7/22 . . by means of elastic edgings, e.g. elastic rubber tubes; by means of resilient edgings, e.g. felt or plush strips, resilient metal strips (37g1-7/18 takes precedence)
- 37g1-7/23 . . . Plastic, sponge rubber, or like strips or tubes
- 37g1-7/232 . . . Resilient strips of hard material, e.g. metal
- 37g1-7/24 . . without separate sealing members, e.g. with labyrinth
- 37g1-7/26 . Rain or draught deflectors, e.g. under sliding wings
- 37g1-7/28 . Other arrangements on doors or windows, e.g. door-plates, windows adapted to carry plants, hooks for window cleaners
- 37g1-7/30 . . Peep-holes; Devices for speaking through; Doors having windows
- 37g1-7/32 . . Serving doors; Passing-through doors
- 37g1-7/34 . . Doors containing cupboards (cabinet construction per se 34i)

37g1-9/00	Screening or protective devices for wall or similar openings, with or without operating or securing mechanisms; Closures of similar construction (37g1-5/10 takes precedence; wings for doors or windows, connected at their edges, 37g1-3/48; additional indoor equipment of doors or windows, not forming part of the proper finishing work of a building, e.g. curtains, 34e; gratings as building elements 37b-2/42; fastening means 68; operating mechanisms for wings in general 68d)
37g1-9/01	. Grilles fixed to walls, doors, or windows; Grilles moving with doors or windows; Walls formed as grilles, e.g. claustra
37g1-9/02	. Shutters, movable grilles, or other safety closing devices, e.g. against burglary (louver windows or grilles 37g1-7/08; lamellar blinds 37g1-9/26)
37g1-9/04	. . with wings, e.g. revolving or sliding
37g1-9/06	. . collapsible or foldable, e.g. of the bellows or lazy-tongs type (bellows-type doors 37g1-3/94; roll-type grilles 37g1-9/18)
37g1-9/08	. . Roll-type closures (usable only as an awning 37d-10/06)
37g1-9/10	. . . Roller shutters; Roller blinds (37g1-9/20 takes precedence; roller shutters for furniture 34i)
37g1-9/12	. . . . with closing members of one piece, e.g. of corrugated sheet metal
37g1-9/14	. . . . with closing members formed of slats or the like
37g1-9/16	. . . . with slats disappearing in each other; with slats the distance between which can be altered
37g1-9/17	. . . . Parts or details of roller shutters, e.g. suspension devices, blind boxes, wicket doors, ventilation openings (parts or details of operating devices 37g1-9/20; brackets or adjustable mountings for both roller blinds and drawable curtains 34e-1/13)
37g1-9/171	. . . . . Rollers; Fastening roller-blinds to rollers
37g1-9/172	. . . . . by clamping bars
37g1-9/173	. . . . . by clasps or buttons
37g1-9/174	. . . . . Bearings (bearings in general 47b)
37g1-9/18	. . . Roll-type grilles (37g1-9/20 takes precedence)
37g1-9/20	. . . Operating, guiding, or securing devices or arrangements; Spring drums; Tape drums
37g1-9/202	. . . . with lowerable roller
37g1-9/203	. . . . with a roller situated at the bottom
37g1-9/204	. . . . Operating devices or mechanisms, e.g. with electric drive
37g1-9/205	. . . . . using crank handles
37g1-9/206	. . . . for direct manual operation, e.g. by tassels, by handles
37g1-9/208	. . . . Safety measures against dropping or unauthorised opening; Braking or immobilising devices; Devices for limiting unrolling
37g1-9/209	. . . . . automatic
37g1-9/22	. . . . Means allowing the safety closing devices to be shifted out of plane
37g1-9/24	. Screens or other constructions affording protection against light, especially against sunshine; Similar screens for privacy or appearance
37g1-9/26	. . Lamellar or like blinds, e.g. venetian blinds
37g1-9/262	. . . with flexibly-interconnected horizontal or vertical strips; Concertina blinds
37g1-9/264	. . . Combinations of lamellar blinds with roller shutters, screen windows, windows, or double panes; Lamellar blinds with special devices
37g1-9/266	. . . Devices or accessories for making, mounting, or cleaning of lamellar blinds or parts thereof
37g1-9/28	. . . with horizontal laminae, e.g. non-liftable (louver windows or gratings 37g1-7/08)
37g1-9/30	. . . . liftable
37g1-9/302	. . . . . without ladder-tape, e.g. with lazy-tongs, with screw spindle
37g1-9/303	. . . . . with ladder-tape
37g1-9/304	. . . . . with tilting bar and separate raising shaft
37g1-9/305	. . . . . with tilting bar and raising cords guided along fixed bar
37g1-9/306	. . . . . with tilting bar along which the raising cords are guided
37g1-9/307	. . . . . Details of tilting bars and their operation
37g1-9/308	. . . . . with coaxial tilting bar and raising shaft
37g1-9/32	. . . . . Operating, guiding, or securing devices therefor (operation of tilting bars 37g1-9/307)

37g1-9/322	. . . . .	Details of operating devices, e.g. pulleys, brakes, spring drums, drives
37g1-9/323	. . . . .	Structure or support of upper box
37g1-9/324	. . . . .	Cord-locks
37g1-9/325	. . . . .	Immobilising devices preventing raising
37g1-9/326	. . . . .	Details of cords, e.g. buckles, drawing knobs
37g1-9/327	. . . . .	Guides for raisable lamellar blinds with horizontal lamellae
37g1-9/34	. . . .	roller type (operating, guiding or securing devices 37g1-9/20)
37g1-9/36	. . .	with vertical laminae
37g1-9/38	. . .	Other details
37g1-9/382	. . . .	Details of ladder-tapes or ladder-chains, e.g. buckles for local shortening of tapes
37g1-9/384	. . . .	Details of interconnection or interaction of tapes and lamellae
37g1-9/386	. . . .	Details of lamellae (37g1-3/88 takes precedence)
37g1-9/388	. . . .	Details of bottom or upper slats or their attachment
37g1-9/52	. . . .	Devices affording protection against insects, e.g. fly screens; Mesh windows for other purposes
37g1-11/00		Means for allowing passage through fences, barriers or the like, e.g. stiles (general features of doors 37g1-1/00 to 37g1-7/00)
37g1-11/02	. . .	Gates; Doors
37g1-11/04	. . .	characterised by the kind of suspension (suspensions per se 68c)
37g1-11/06	. . .	characterised by the kind of fastening (fastenings per se 68a)
37g1-11/08	. . .	Turnstiles (with registering means 43a2-9/02)
37g2		(IPC: E06C) Ladders (adaptation of ladders to use on ships B63B, to use on aircraft B64; scaffolding 37e)
37g2-1/00		Ladders in general (mounted on undercarriages or vehicles 37g2-5/00; permanently attached to fixed structures 37g2-9/00)
37g2-1/02	. . .	with rigid longitudinal member or members
37g2-1/04	. . .	Ladders for resting against objects, e.g. walls, poles, trees (supports for ladder heads 37g2-7/48)
37g2-1/06	. . .	in one piece
37g2-1/08	. . .	multi-part
37g2-1/10	. . . .	Sections fitted end to end
37g2-1/12	. . . .	extensible, e.g. telescopic
37g2-1/14	. . .	Ladders capable of standing by themselves
37g2-1/16	. . .	with struts which rest on the ground (with struts rigid with the ladder 37g2-1/24; having platforms 37g2-1/39)
37g2-1/18	. . . .	with supporting struts formed as ladders
37g2-1/20	. . . .	with supporting struts formed as poles
37g2-1/22	. . . .	with extensible, e.g. telescopic, ladder parts or struts
37g2-1/24	. . .	Free-standing ladders
37g2-1/26	. . . .	in one piece
37g2-1/28	. . . .	multi-part (with movable supporting struts formed as ladders 37g2-1/18)
37g2-1/30	. . . .	extensible, e.g. telescopic
37g2-1/32	. . .	Ladders with a strut which is formed as a ladder and can be secured in line with the ladder
37g2-1/34	. . .	Ladders attachable to structures, such as windows, cornices, poles, or the like (ladders permanently fastened to buildings 37g2-9/00)
37g2-1/36	. . .	Ladders suspendable by hooks or the like
37g2-1/38	. . .	Special constructions of ladders, e.g. ladders with more or less than two longitudinal members, ladders with movable rungs or other treads, longitudinally-foldable ladders
37g2-1/383	. . .	Foldable ladders in which the longitudinal members are brought together on folding
37g2-1/387	. . .	having tip-up steps
37g2-1/39	. . .	Ladders having platforms; Ladders changeable into platforms (platforms for use on ladders 37g2-7/16)
37g2-1/393	. . . .	Ladders having platforms foldable with the ladder
37g2-1/397	. . . .	characterised by having wheels, rollers, or runners

37g2-1/52	. with non-rigid longitudinal members
37g2-1/54	. . of the lazy-tongs type
37g2-1/56	. . Rope or chain ladders
37g2-1/58	. with both rigid and non-rigid longitudinal members
37g2-5/00	Ladders characterised by being mounted on undercarriages or vehicles; Securing ladders on vehicles (ladders having wheels, rollers, or runners 37g2-1/397)
37g2-5/02	. with rigid longitudinal members
37g2-5/04	. . capable of being elevated and/or extended
37g2-5/06	. . . by piston and cylinder, or equivalent means, operated by a pressure medium
37g2-5/08	. . . . derived directly from a pressure reservoir
37g2-5/10	. . . . . charged by a pump or compressor driven by the motor of the vehicle or another motor on the vehicle
37g2-5/12	. . . . . derived directly from a pump or compressor
37g2-5/14	. . . . . driven by the motor of the vehicle or another motor on the vehicle
37g2-5/16	. . . using mechanical transmission only, with or without fluid or other non-mechanical couplings or clutches
37g2-5/18	. . . . using power from the motor of the vehicle or another motor
37g2-5/20	. . . . using hand-power (hand-operated extending means carried by the ladder 37g2-7/04)
37g2-5/22	. . . by or with the assistance of springs (37g2-5/06, 37g2-5/16 take precedence)
37g2-5/24	. . Dismounting ladders from vehicles
37g2-5/26	. with non-rigid longitudinal members
37g2-5/28	. . of the lazy-tongs type
37g2-5/30	. . formed of links which reinforce themselves against each other
37g2-5/32	. Accessories
37g2-5/34	. . Indicating devices
37g2-5/36	. . Safety devices against slipping or falling of ladders; Safety devices against overloading ladders
37g2-5/38	. . Devices for blocking the springs of the vehicle; Devices for supporting the undercarriage directly from the ground
37g2-5/40	. . Devices for canting ladders laterally
37g2-5/42	. . Devices for altering inclination; Latching devices therefor
37g2-5/44	. . Other accessories on ladders, e.g. acoustical signalling devices, dismantlable switchboards
37g2-7/00	Component parts, supporting parts, or accessories
37g2-7/02	. Extending means (for ladders mounted on undercarriages or vehicles 37g2-5/00)
37g2-7/04	. . Hand-operated extending means carried by the ladder (means for coordination of relative movement of ladder sections 37g2-5/04)
37g2-7/06	. Securing devices or hooks for parts of extensible ladders
37g2-7/08	. Special construction of longitudinal members, or rungs or other treads
37g2-7/10	. Reinforcements for ladders
37g2-7/12	. Lifts or other hoisting devices on ladders
37g2-7/14	. Holders for pails or other equipment on or for ladders
37g2-7/16	. Platforms on or for use on ladders, e.g. liftable or lowerable platforms (aspects relating to the lifting 35d)
37g2-7/18	. Devices for preventing persons from falling (life-saving belts 61a-8)
37g2-7/42	. Ladder feet; Supports therefor (for scaffolding elements 37e-5/02)
37g2-7/44	. . Means for mounting ladders on uneven ground
37g2-7/46	. . Non-skid equipment
37g2-7/48	. Ladder heads; Supports for heads of ladders for resting against objects
37g2-7/50	. Joints or other connecting parts
37g2-9/00	Ladders characterised by being permanently attached to fixed structures, e.g. fire escapes (movable stairways 37d-11/04)
37g2-9/02	. rigidly mounted
37g2-9/04	. . in the form of climbing irons or the like
37g2-9/06	. movably mounted
37g2-9/08	. . with rigid longitudinal members

37g2-9/10	. . . forming part of a building, such as a balcony grid, window grid, or other window part
37g2-9/12	. . . laterally displaceable
37g2-9/14	. . . with non-rigid longitudinal members, e.g. rope or chain ladders, ladders of the lazy-tongs type