

SECTION E — FIXED CONSTRUCTIONS

E04 BUILDING

E04F FINISHING WORK ON BUILDINGS, e.g. STAIRS, FLOORS (windows, doors E06B)

Subclass index

SUNSHADES, AWNINGS.....	10/00
STAIRWAYS.....	11/00
COVERING OR FINISHING WALLS, CEILINGS, OR FLOORS.....	13/00, 15/00, 19/00
DUCTS OR CHANNELS.....	17/00
IMPLEMENTS.....	21/00
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10/00	Sunshades; Awnings (baldachins A45B, A45F, E04H; trailer awnings E04H 15/08; for tents E04H 15/58)	11/18	• Balustrades; Handrails (guard-rails on ships B63B; for bridges E01D 19/10; for roads E01F 13/00, E01F 15/00; fences E04H 17/00)
10/02	• of flexible canopy materials, e.g. canvas	13/00	Coverings or linings, e.g. for walls or ceilings (flooring E04F 15/00; decoration of surfaces, mosaic work B44, e.g. paper-hanging B44C 7/00; made of webs, e.g. of fabrics or wallpaper, D03D, D04G, D04H, D06N, D21H; construction of ceilings E04B 9/00; roofings or similar water-tight coverings against precipitation E04D) [3]
10/04	• • with material fixed on sections of a collapsible frame	13/02	• of plastic materials hardening after applying, e.g. plaster (surface treatment in painting technique B44D; inorganic or bituminous masses C04B; organic plastics C08L)
10/06	• • comprising a roller-blind with means for holding the end away from a building	13/04	• • Bases for plaster (sub-ceilings with plaster-carrying means E04B 9/06)
10/08	• of a plurality of similar rigid parts, e.g. slabs, lamellae (rigidly-arranged sunshade roofs with coherent surfaces E04B 7/00)	13/06	• • • Edge-protecting borders
10/10	• • collapsible	13/07	• composed of covering or lining elements; Sub-structures therefor; Fastening means therefor [2006.01]
11/00	Stairways, ramps, or like structures (mounting or marking-off stairways E04F 21/26; of temporary construction E04G 27/00); Balustrades; Handrails (ladders permanently attached to fixed structures E06C 9/00)	13/072	• • composed of specially adapted, structured or shaped covering or lining elements [2006.01]
11/02	• Stairways; Layouts thereof	13/073	• • • for particular building parts, e.g. corners or columns [2006.01]
11/022	• • characterised by the supporting structure [6]	13/074	• • • for accommodating service installations or utility lines, e.g. heating conduits, electrical lines, lighting devices or service outlets [2006.01]
11/025	• • • Stairways having stringers [6]	13/075	• • • for insulation or surface protection, e.g. against noise or impact [2006.01]
11/028	• • • • having a central stringer [6]	13/076	• • • characterised by the joints between neighbouring elements, e.g. with joint fillings or with tongue and groove connections [2006.01]
11/032	• • • Spiral stairways supported by a central column [6]	13/077	• • • composed of several layers, e.g. sandwich panels (E04F 13/075 takes precedence) [2006.01]
11/035	• • • Stairways consisting of a plurality of assembled modular parts without further support [6]	13/078	• • • Stretched foil- or web-like elements attached with edge gripping devices [2006.01]
11/038	• • • • each modular part having a load-bearing balustrade part [6]	13/08	• • composed of a plurality of similar covering or lining elements (E04F 13/072 takes precedence; borders, skirtings E04F 19/02) [1, 2006.01]
11/04	• • Movable stairways, e.g. of loft ladders which may or may not be concealable or extensible (ship ladders B63B; stairs for aircraft B64F; escalators or moving walkways B66B)		
11/06	• • • collapsible, e.g. folding, telescopic		
11/09	• • Tread-and-riser units [6]		
11/104	• • Treads (E04F 11/09 takes precedence) [6]		
11/108	• • • of wood [6]		
11/112	• • • of metal [6]		
11/116	• • • of stone, concrete or like material [6]		
11/16	• • • Surfaces thereof; Protecting means for the edges or corners thereof (floor fabrics, fastenings therefor A47G 27/00)		
11/17	• • • • Surfaces [6]		

- 13/09 • • • of elements attached to a common web, support plate or grid [2006.01]

Note(s) [2006.01]

Group E04F 13/09 takes precedence over groups E04F 13/10-E04F 13/18.

- 13/10 • • • of wood [1, 2006.01]
- 13/12 • • • of metal [1, 2006.01]
- 13/14 • • • of stone or stone-like materials, e.g. ceramics; of glass [1, 2006.01]
- 13/15 • • • characterised by the use of glass elements [2006.01]
- 13/16 • • • of fibres or chips, e.g. bonded with synthetic resins [1, 2006.01]
- 13/18 • • • of organic plastics with or without reinforcements or filling materials (of plastic-bound fibres or chips E04F 13/16) [1, 2006.01]
- 13/21 • • Fastening means specially adapted for covering or lining elements [2006.01]
- 13/22 • • • Anchors, support angles or consoles [2006.01]
- 13/23 • • • adjustable [2006.01]
- 13/24 • • • Hidden fastening means on the rear of the covering or lining elements (E04F 13/30 takes precedence) [2006.01]
- 13/25 • • • adjustable [2006.01]
- 13/26 • • • Edge engaging fastening means, e.g. clamps, clips or border profiles [2006.01]
- 13/28 • • • adjustable [2006.01]
- 13/30 • • • Magnetic fastening means [2006.01]

- 15/00 Flooring** (stair treads E04F 11/104; coverings not specially adapted for floors E04F 13/00; borders, skirtings E04F 19/02; gratings for cleaning soles of footwear A47L 23/24; of similar materials to roads E01C; basic or rough floors E04B 5/00) [6]
- 15/02 • Flooring or floor layers composed of a number of similar elements (of webs E04F 15/16)
- 15/022 • Flooring consisting of parquetry tiles on a non-rollable sub-layer of other material, e.g. board, concrete, cork [2]
- 15/024 • Sectional false floors, e.g. computer floors
- 15/04 • only of wood, e.g. with wooden connecting members (rollable parquet E04F 15/16)
- 15/06 • of metal, whether or not in combination with other material (gratings as building elements E04C 2/42)
- 15/08 • only of stone or stone-like material, e.g. concrete; of glass
- 15/10 • of other materials, e.g. fibrous or chipped materials, organic plastics, magnesite, hardboard
- 15/12 • Flooring or floor layers made of masses in situ, e.g. seamless magnesite floors, terrazzo (inorganic or bituminous masses C04B; organic plastic masses C08L)
- 15/14 • Construction of joints, e.g. dividing strips (sealing joints not restricted to flooring E04B 1/68)
- 15/16 • Flooring, e.g. parquet on flexible web, laid as flexible webs; Webs specially adapted for use as flooring (resiliently-mounted floors, e.g. sprung floors, E04F 15/22; linoleum D06N; webs in general, manufacturing of webs, see the relevant classes)
- 15/18 • Separately-laid insulating layers; Other additional insulating measures; Floating floors (insulating of buildings in general E04B 1/62)
- 15/20 • for sound insulation

- 15/22 • Resiliently-mounted floors, e.g. sprung floors (laid as webs E04F 15/16) [2]

17/00 Vertical ducts; Channels, e.g. for drainage (pipes in general F16L; pipe-line systems F17D)

- 17/02 • for carrying away waste gases, e.g. flue gases (free-standing chimneys E04H 12/28; connections between fireplace and chimney, chimney fittings, covers for cleaning holes of chimneys F23J; chimney tops F23L); Building elements specially designed therefor, e.g. shaped bricks or sets thereof
- 17/04 • Air-ducts or air channels
- 17/06 • Light shafts, e.g. for cellars
- 17/08 • for receiving utility lines, e.g. cables, pipes (covers giving access to the ducts or channels, covers of inspection holes E04F 19/08) [6]
- 17/10 • Arrangements in buildings for the disposal of refuse (refuse bins, gathering or removal of refuse B65F)
- 17/12 • Chutes

19/00 Other details or constructional parts for finishing work on buildings (ladders, e.g. climbing irons, E06C 9/04)

- 19/02 • Borders; Finishing strips, e.g. beadings; Light coves (for protecting edges of plaster E04F 13/06)
- 19/04 • for use between floor or ceiling and wall, e.g. skirtings
- 19/06 • specially designed for securing panels
- 19/08 • Built-in cupboards; Masks of niches; Covers of holes enabling access to installations (clean-out doors of chimneys F23J)
- 19/10 • Built-in gratings, e.g. foot-scrapers

21/00 Implements for finishing work on buildings (for working or treating building elements of stone or stone-like material B28D; designed specifically for special details provided for in the other groups of this subclass, see the relevant groups for the details)

- 21/02 • for applying plasticised masses to surfaces, e.g. plastering walls (specially for laying flooring E04F 21/20; applying liquids or other fluent materials to surfaces, in general B05; decorative arts B44)
- 21/04 • Patterns or templates; Jointing rulers
- 21/05 • Supports for jointing rulers
- 21/06 • Implements for applying plaster, insulating material, or the like
- 21/08 • Mechanical implements (E04F 21/14 takes precedence; spraying apparatus in general B05B; sand-blasting B24C)
- 21/10 • centrifugally acting
- 21/12 • acting by gas pressure, e.g. steam pressure
- 21/14 • in shafts, e.g. chimneys
- 21/16 • Implements for after-treatment of plaster or the like, e.g. smoothing tools, profile trowels
- 21/165 • for finishing joints, e.g. implements for raking or filling joints, jointers (bricklayers' tools E04G 21/16; repairing, e.g. filling cracks, E04G 23/02) [3]
- 21/18 • for setting wall or ceiling slabs or plates (tools for mosaic work B44C)
- 21/20 • for laying flooring (made of similar material to roads or pavements E01C)
- 21/22 • of single elements, e.g. flooring cramps
- 21/24 • of masses made in situ, e.g. smoothing tools
- 21/26 • for mounting staircases, e.g. tools for marking steps
- 21/28 • for glazing (glass cutters C03B 33/10)
- 21/30 • Putty squeezers or guns
- 21/32 • Putty knives; Putty removers