

CPC COOPERATIVE PATENT CLASSIFICATION

E FIXED CONSTRUCTIONS

BUILDING

E04 BUILDING

E04D ROOF COVERINGS; SKY-LIGHTS; GUTTERS; ROOF-WORKING TOOLS (coverings of outer walls by plaster or other porous material [E04F 13/00](#))

NOTE

In this subclass, the following expression is used with the meaning indicated:

- "roof coverings" includes any similar kind of watertight covering against rain, snow, hail, or the like, for other parts of buildings

WARNINGS

- The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

E04D 3/3645	covered by	E04D 3/363
E04D 3/367	covered by	E04D 3/364
E04D 13/18	covered by	F24S 20/67 , H02S 20/23

- In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

1/00	Roof covering by making use of tiles, slates, shingles, or other small roofing elements (roofing supports {or underlayers} E04D 12/00)	1/23	. . {with tapered thickness}
		1/24	. Roofing elements with cavities, e.g. hollow tiles (E04D 1/28 takes precedence)
2001/005	. {the roofing elements having a granulated surface}	1/26	. Strip-shaped roofing elements {simulating a repetitive pattern, e.g.} appearing as a row of shingles
1/02	. Grooved or vaulted roofing elements (E04D 1/28 , E04D 1/30 take precedence)		
1/025	. . {Diamond shaped and installed in diagonal lines}	1/265	. . {the roofing elements being rigid, e.g. made of metal, wood or concrete}
1/04	. . of ceramics, glass or concrete, with or without reinforcement	1/28	. Roofing elements comprising two or more layers, e.g. for insulation
1/045	. . . {Vaulted roofing elements laid alternately side-up and side-down, e.g. monks and nuns tiles}	1/29	. {Means for connecting or fastening adjacent roofing elements}
1/06	. . of metal	1/2907	. . {by interfitted sections}
1/08	. . of plastics; {of asphalt; } of fibrous materials	1/2914	. . . {having fastening means or anchors at juncture of adjacent roofing elements}
1/085	. . . {of wood}	1/2916	. . . . {the fastening means taking hold directly on adjacent elements of the same row}
1/10	. . of specified materials {not covered by any one of groups E04D 1/04 - E04D 1/085 }, or of combinations of materials, {where at least one is} not covered by any one of groups E04D 1/04 - E04D 1/085	1/2918	. . . . {the fastening means taking hold directly on adjacent elements of succeeding rows}
1/12	. Roofing elements shaped as plain tiles or shingles, i.e. with flat outer surface (E04D 1/28 , E04D 1/30 take precedence)	1/2921	. . . {having resilient detents adapted to be biased to a position to resist separation}
1/125	. . {Diamond shaped elements specially adapted for being installed in diagonal lines}	1/2928	. . . {having slits receiving marginal edge of adjacent section}
1/14	. . of slate material, with or without fastening means	1/2935	. . . {folded, rolled, or indented <u>in situ</u> }
1/16	. . of ceramics, glass or concrete, with or without reinforcement	1/2942	. . . {having folded sections receiving interfitted part of adjacent section}
1/18	. . of metal	1/2949	. . . {having joints with fluid-handling feature, e.g. a fluid channel for draining}
1/20	. . of plastics; {of asphalt; } of fibrous materials	1/2956	. . . {having tongues and grooves}
1/205	. . . {of wood}	1/2963	. . . {having laminated layers overlapping adjacent sections}
1/22	. . of specified materials {not covered by any one of groups E04D 1/14 - E04D 1/205 }, or of combinations of materials, {where at least one is} not covered by any one of groups E04D 1/14 - E04D 1/205	1/2984	. . {with spacing or space-forming features, e.g. braces, fillers or drains}

1/30	Special roof-covering elements, e.g. ridge tiles, gutter tiles, gable tiles, ventilation tiles (E04D 3/40 takes precedence)	2001/3488	<ul style="list-style-type: none"> characterised by the type of roof covering elements being fastened}
2001/301	<ul style="list-style-type: none"> {at roof edges, e.g. intersections with walls} 	2001/3491	<ul style="list-style-type: none"> {made of flexible material, e.g. shingles}
2001/302	<ul style="list-style-type: none"> {Gable tiles} 	2001/3494	<ul style="list-style-type: none"> {made of rigid material having a flat external surface}
2001/303	<ul style="list-style-type: none"> {Eave tiles} 	2001/3497	<ul style="list-style-type: none"> {Spanish type tiles}
2001/304	<ul style="list-style-type: none"> {at roof intersections, e.g. valley tiles, ridge tiles} 	1/36	Devices for sealing the spaces or joints between roof-covering elements (sealing joints not restricted to roof-covering elements E04B 1/68; {channels at the intersection of roof surfaces E04D 13/0445})
2001/305	<ul style="list-style-type: none"> {Ridge or hip tiles} 	1/365	<ul style="list-style-type: none"> {Sealing strips between lateral sides of roof-covering elements}
2001/306	<ul style="list-style-type: none"> {Under-ridge tiles} 		
2001/307	<ul style="list-style-type: none"> {for passages in the roof surface} 		
2001/308	<ul style="list-style-type: none"> {for special purposes not otherwise provided for, e.g. turfing tiles, step tiles} 		
2001/309	<ul style="list-style-type: none"> {Ventilation tiles} 	3/00	Roof covering by making use of flat or curved slabs or stiff sheets (E04D 1/00 takes precedence; built-up roofs E04D 11/02)
1/34	Fastenings for attaching roof-covering elements to the supporting elements		NOTE
1/3402	<ul style="list-style-type: none"> {for ridge or roofhip tiles} 		In groups E04D 3/361 - E04D 3/368 , additional small fastening elements, e.g. nails, screws, are not to be considered to be separate connecting elements.
1/3405	<ul style="list-style-type: none"> {for eaves, valley, or verge tiles} 		{This Note corresponds to IPC Note (1) relating to E04D 3/361 - E04D 3/368 .}
2001/3408	<ul style="list-style-type: none"> {characterised by the fastener type or material} 		
2001/3411	<ul style="list-style-type: none"> {Metal wires or rods} 		
2001/3414	<ul style="list-style-type: none"> {Metal strips or sheet metal} 		
2001/3417	<ul style="list-style-type: none"> {Synthetic, composite or molded material} 		
2001/342	<ul style="list-style-type: none"> {Flexible filamentous ties, e.g. to be twisted or forming nets} 		
2001/3423	<ul style="list-style-type: none"> {Nails, rivets, staples or straps piercing or perforating the roof covering material} 	3/02	<ul style="list-style-type: none"> of plane slabs, slates, or sheets, or in which the cross-section is unimportant (E04D 3/35 takes precedence)
2001/3426	<ul style="list-style-type: none"> {Threaded elements, e.g. screws or bolts} 	3/04	<ul style="list-style-type: none"> of concrete or ceramics (of asbestos cement E04D 3/18)
2001/3429	<ul style="list-style-type: none"> {Press-studs elements or hook and loop elements} 	3/06	<ul style="list-style-type: none"> of glass or other translucent material; Fixing means therefor (fixing glass panes by means applicable to windows E06B 3/54)
2001/3432	<ul style="list-style-type: none"> {Strips covering the gap between the roof covering elements} 	2003/065	<ul style="list-style-type: none"> {Corner- or point-supported glazing}
2001/3435	<ul style="list-style-type: none"> {Adhesive, hardenable or heat-sensitive material} 	3/08	<ul style="list-style-type: none"> with metal glazing bars
2001/3438	<ul style="list-style-type: none"> {Fasteners comprising several coating elements} 	2003/0806	<ul style="list-style-type: none"> {the supporting section of the glazing bar consisting of one single extruded or rolled metal part}
2001/3441	<ul style="list-style-type: none"> {Series of easily separable fasteners} 	2003/0812	<ul style="list-style-type: none"> {the supporting section of the glazing bar consisting of one single bent or otherwise deformed sheetmetal}
2001/3444	<ul style="list-style-type: none"> {characterised by the roof covering or structure with integral or premounted fastening means} 	2003/0818	<ul style="list-style-type: none"> {the supporting section of the glazing bar consisting of several parts, e.g. compound sections}
2001/3447	<ul style="list-style-type: none"> {the fastening means being integral or premounted to the roof covering} 	2003/0825	<ul style="list-style-type: none"> {the metal section covered by parts of other material}
2001/345	<ul style="list-style-type: none"> {the fastening means being integral or premounted to the roof structure} 	2003/0831	<ul style="list-style-type: none"> {Glazing gaskets of particular shape}
2001/3452	<ul style="list-style-type: none"> {characterised by the location of the fastening means} 	2003/0837	<ul style="list-style-type: none"> {Sections comprising intermediate parts of insulating material}
2001/3455	<ul style="list-style-type: none"> {on the internal surface of the roof covering elements} 	2003/0843	<ul style="list-style-type: none"> {Clamping of the sheets or glass panes to the glazing bars by means of covering strips}
2001/3458	<ul style="list-style-type: none"> {on the upper or lower transverse edges of the roof covering elements} 	2003/085	<ul style="list-style-type: none"> {locked by snap action}
2001/3461	<ul style="list-style-type: none"> {on the lateral edges of the roof covering elements} 	2003/0856	<ul style="list-style-type: none"> {locked by screws, bolts or pins}
2001/3464	<ul style="list-style-type: none"> {on the lateral corners of the roof covering elements for diagonally tiled roofs} 	2003/0862	<ul style="list-style-type: none"> {by means of separate clips or hooks}
2001/3467	<ul style="list-style-type: none"> {through apertures, holes or slots} 	2003/0868	<ul style="list-style-type: none"> {Mutual connections and details of glazing bars}
2001/347	<ul style="list-style-type: none"> {characterised by the fastening pattern} 	2003/0875	<ul style="list-style-type: none"> {on the ridge of the roof or on intersecting roof parts}
2001/3473	<ul style="list-style-type: none"> {fastening single roof elements to the roof structure with or without indirect clamping of neighbouring roof covering elements} 	2003/0881	<ul style="list-style-type: none"> {on the eaves of the roof}
2001/3476	<ul style="list-style-type: none"> {the fastening means taking hold directly on adjacent elements of the same row and fastening them simultaneously to the roof structure} 	2003/0887	<ul style="list-style-type: none"> {Glazing bars for coverings consisting of more than one sheet or glass pane}
2001/3482	<ul style="list-style-type: none"> {the fastening means taking hold directly on elements of succeeding rows and fastening them simultaneously to the structure} 	2003/0893	<ul style="list-style-type: none"> {Glazing bars comprising means for draining condensation water or infiltrated rainwater}
		3/14	<ul style="list-style-type: none"> with glazing bars of other material, e.g. of glass
		3/16	<ul style="list-style-type: none"> of metal

- 3/18 . . of specified materials, or of combinations of materials, not covered by any of groups [E04D 3/04](#), [E04D 3/06](#) or [E04D 3/16](#)
- 3/24 . . with special cross-section, e.g. with corrugations on both sides, with ribs, flanges, or the like ([E04D 3/35 takes precedence](#))
- 3/26 . . of concrete or ceramics
- 3/28 . . of glass {or other translucent material}
- 2003/285 . . . {with specially profiled marginal portions for connecting purposes}
- 3/30 . . of metal
- 3/32 . . of plastics, fibrous materials, or asbestos cement
- 3/34 . . of specified materials, or of combinations of materials, not covered by any one of groups [E04D 3/26](#) - [E04D 3/32](#)
- 3/35 . Roofing slabs or stiff sheets comprising two or more layers, e.g. for insulation {(self-supporting roofing slabs laminated with layers of insulating material [E04B 7/22](#); insulating devices or arrangements in the roof covering [E04D 13/16](#); connecting, fastening of double roof covering [E04D 3/3608](#))}
- 3/351 . . {at least one of the layers being composed of insulating material, e.g. fibre or foam material}
- 3/352 . . . {at least one insulating layer being located between non-insulating layers, e.g. double skin slabs or sheets}
- 3/354 . . . {more than one of the layers being composed of insulating material}
- 3/355 . . . {the insulating layers of adjacent slabs having cooperating edges}
- 3/357 . . {comprising hollow cavities}
- 3/358 . . {with at least one of the layers being offset with respect to another layer}
- 3/36 . Connecting; Fastening
- 3/3601 . . {of roof covering supported by the roof structure with interposition of a insulating layer ([E04D 3/3607](#), [E04D 3/3608](#), [E04D 3/361](#) - [E04D 3/369 take precedence](#))}
- 3/3602 . . . {The fastening means comprising elongated profiles installed in or on the insulation layer}
- 3/3603 . . . {the fastening means being screws or nails}
- 3/3605 . . {of roof covering supported directly by the roof structure ([E04D 3/3607](#), [E04D 3/3608](#), [E04D 3/361](#) - [E04D 3/369 take precedence](#))}
- 3/3606 . . . {the fastening means being screws or nails}
- 3/3607 . . {the fastening means comprising spacer means adapted to the shape of the profiled roof covering}
- 3/3608 . . {for double roof covering or overroofing}
- 3/361 . . by specially-profiled marginal portions of the slabs or sheets
- 2003/3612 . . . {Separate fastening elements fixed to the roof structure and comprising plastic parts for avoiding thermal bridges}
- 2003/3615 . . . {Separate fastening elements fixed to the roof structure and consisting of parts permitting relative movement to each other, e.g. for thermal expansion}
- 2003/3617 . . . {with locking or snapping edges located in the thickness of the slab or sheet}
- 3/362 . . . by locking the edge of one slab or sheet within the profiled marginal portion of the adjacent slab or sheet, e.g. using separate connecting elements
- 3/363 . . . with snap action ([E04D 3/366 takes precedence](#))
- 3/364 . . . {by folding of the edges}
- 3/365 . . by simple overlapping of the marginal portions with use of separate connecting elements, e.g. hooks or bolts for corrugated sheets
- 3/366 . . by closing the space between the slabs or sheets by gutters, bulges, or bridging elements, e.g. strips
- 3/368 . . by forcing together the marginal portions of adjacent slabs or sheets
- 3/369 . . by welding of the marginal portions of adjacent slabs or sheets {also by soldering, glueing}
- 3/38 . Devices for sealing spaces or joints between roof-covering elements ([E04D 3/36 takes precedence](#); sealing joints not restricted to roof-covering elements [E04B 1/68](#))
- 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 {([E04D 13/15](#) and [E04D 13/174 take precedence](#); ridge sealing [E04D 1/36](#); solar collectors [F24S 20/67](#))}
- 3/405 . . {Wall copings}
- 5/00 Roof covering by making use of flexible material, e.g. supplied in roll form (using stiff sheets [E04D 3/00](#); gravelling of flat roofs [E04D 7/00](#) {; granulated roof covering [E04D 7/005](#)}; built-up roofs [E04D 11/02](#))**
- NOTE**
- Group [E04D 5/12](#) takes precedence over groups [E04D 5/02](#) - [E04D 5/10](#)
- 5/02 . . of materials impregnated with sealing substances, e.g. roofing felt
- 5/04 . . by making use of metal foils
- 5/06 . . by making use of plastics
- 5/08 . . by making use of other materials
- 5/10 . . by making use of compounded or laminated materials, e.g. metal foils or plastic films coated with bitumen
- 5/12 . . specially modified, e.g. perforated, with granulated surface, with attached pads
- 5/14 . . Fastening means therefor
- 5/141 . . {characterised by the location of the fastening means}
- 5/142 . . . {along the edge of the flexible material}
- 5/143 . . . {in the field of the flexible material}
- 5/144 . . {Mechanical fastening means}
- 5/145 . . . {Discrete fastening means, e.g. discs or clips}
- 5/146 . . . {Linear fastening means, e.g. strips}
- 5/147 . . . {not perforating the flexible material}
- 5/148 . . {fastening by gluing}
- 5/149 . . {fastening by welding}
- 7/00 Roof covering {exclusively consisting of} sealing masses applied in situ; Gravelling of flat roofs**
- 7/005 . . {characterised by loose or embedded gravel or granules as an outer protection of the roof covering}

9/00	Roof covering by using straw, thatch, or like materials (impregnation against incendiary damage B27K)	2013/0345	. . . {with skylight shafts extending from roof to ceiling}
11/00	Roof covering, as far as not restricted to features covered by only one of groups E04D 1/00 - E04D 9/00 ; Roof covering in ways not provided for by groups E04D 1/00 - E04D 9/00 , {e.g. built-up roofs, elevated load-supporting roof coverings}	13/035	. . characterised by having movable parts { (preventing the spread of fire A62C 3/00 ; roof structures with movable roof parts E04B 7/16 ; operating mechanisms for sky-lights E05F 11/00 ; automatically acting closers E05F 17/00) }
11/002	. {consisting of two or more layers, at least one of the layers permitting turfing of the roof}	13/0351	. . . {the parts pivoting about a fixed axis}
11/005	. {Supports for elevated load-supporting roof coverings}	13/0352	. . . . {the parts being of domed or pyramidal shape}
11/007	. . {Height-adjustable spacers}	13/0354	. . . . {the parts being flat}
11/02	. Build-up roofs, i.e. consisting of two or more layers bonded together <i>in situ</i> , at least one of the layers being of watertight composition (gravelling of flat roofs E04D 7/00 ; venting or ventilation E04D 13/17)	13/0355	. . . . {The parts being of vaulted shape}
12/00	Non-structural supports for roofing materials, e.g. battens, boards (E04D 11/02 {and E04D 13/16 } take precedence; {self-supporting slabs with non-structural supports for roofing materials E04B 7/205 })	13/0357	. . . {the parts pivoting about an axis supported on a hinged frame or arms}
12/002	. {Sheets of flexible material, e.g. roofing tile underlay}	13/0358	. . . {the parts moving, in their own plane, e.g. rolling or sliding, or moving in parallel planes with or without an additional movement, e.g. both pivoting and rolling or sliding}
12/004	. {Battens}	13/04	. Roof drainage; Drainage fittings in flat roofs, {balconies or the like} (gutter tiles E04D 1/30 ; gutter slabs E04D 3/40 ; {vessels for collecting rainwater E03B 3/03 ; } street gullies E03F 5/04)
12/006	. . {Batten-supporting means}	13/0404	. . {Drainage on the roof surface}
12/008	. . . {Ridge-batten brackets}	13/0409	. . . {Drainage outlets, e.g. gullies}
13/00	Special arrangements or devices in connection with roof coverings; {Protection against birds;} Roof drainage {; Sky-lights} (ventilation tiles E04D 1/30 ; ventilation slabs E04D 3/40 ; internal channels E04F 17/00)	2013/0413	. . . . {Strainers for drainage outlets}
13/002	. {Provisions for preventing vegetational growth, e.g. fungi, algae or moss}	2013/0418	. . . . {with de-icing devices or snow melters}
13/004	. {Protection against birds, mice or the like (scaring devices for birds in general A01M 29/00)}	2013/0422	. . . . {for draining water above the roof level, e.g. gullies with overflow ports}
13/006	. {Provisions for detecting water leakage}	2013/0427	. . . . {with means for controlling the flow in the outlet}
13/008	. {Provisions for reducing rain noise}	13/0431	. . . . {with horizontal evacuation over the border of the roof}
13/02	. Roof-covering aspects of dormer windows (E04D 13/14 takes precedence; structures therefor E04B 7/18)	2013/0436	. . . . {with sealing means}
13/03	. Sky-lights; Domes; Ventilating sky-lights (E04D 13/14 takes precedence; structures therefor, {e.g. dormer windows} E04B 7/18 ; {saw-tooth roofs with light-transmission E04B 7/12 })	2013/044	. . . . . {on multiple levels}
13/0305	. . {Supports or connecting means for sky-lights of flat or domed shape}	13/0445	. . . {Drainage channels}
13/031	. . . {characterised by a frame for connection to an inclined roof}	2013/045	. . . . {on inclined roofs}
13/0315	. . . {characterised by a curb frame}	2013/0454	. . . . . {at the intersection of roof surfaces, e.g. roof valleys}
13/032	. . {Supports or connecting means for sky-lights of vaulted shape}	13/0459	. . . {Drainage borders, e.g. dripping edges, gravel stops or dispersers}
13/0325	. . {provided with ventilating means (roof ventilation F24F 7/02)}	2013/0463	. . . . {Dispersers}
13/033	. . {provided with means for controlling the light-transmission or the heat-reflection, (e.g. shields, reflectors, cleaning devices)}	2013/0468	. . . . {Drip edges}
13/0335	. . {Skylight guards, security devices protecting skylights or preventing objects or persons from falling through skylight openings}	2013/0472	. . . . {Gravel stops}
2013/034	. . {Daylight conveying tubular skylights}	13/0477	. . . {Underroof drainage layers (layers permitting turfing of the roof E04D 11/002)}
		13/0481	. . . {Drainage guiding provisions, e.g. deflectors or stimulation by inclined surfaces}
		2013/0486	. . . . {Deflectors}
		2013/049	. . . {of condensation water or infiltrated rainwater}
		2013/0495	. . . {to storage tanks}
		13/064	. . Gutters { (drainage channels on the roof surface E04D 13/0445 ; gutters for greenhouses A01G 9/1476) }
		13/0641	. . . {Gutter ends}
		13/0643	. . . {Gutter corners}
		13/0645	. . . {Connections between gutter and down pipe}
		13/0646	. . . {made of concrete or stone-like material}
		13/0648	. . . {comprising provisions for heat insulation, e.g. an insulation layer}
		13/068	. . . Means for fastening gutter parts together
		13/0685	. . . . {in combination with hanging means}

- 13/072 . . . Hanging means (in combination with means for fastening gutter parts together (E04D 13/0685))
- 13/0722 {extending mainly under the gutter}
- 13/0725 {situated above or inside the gutter}
- 13/0727 {situated mainly at the rear side of the gutter}
- 13/076 . . Devices or arrangements for removing snow, ice or debris from gutters or for preventing accumulation thereof
- 13/0762 . . . {De-icing devices or snow melters}
- 13/0765 . . . {Cleaning tools}
- 13/0767 . . . {Strainers at connection between gutter and down pipe}
- 13/08 . . Down pipes; Special clamping means therefor (clamping pipes in general F16B, F16L)
- 2013/0806 . . . {Details of lower end of down pipes, e.g. connection to water disposal system}
- 2013/0813 {Water diverters}
- 2013/082 . . . {Down pipe branches}
- 2013/0826 . . . {Passages of down pipes through walls or floors}
- 2013/0833 . . . {Elbow pieces}
- 2013/084 . . . {Means for fixing down pipes to structure}
- 2013/0846 . . . {Interconnecting down pipe parts}
- 2013/0853 . . . {Valves for controlling the rain water flow}
- 2013/086 . . . {Filters}
- 2013/0866 . . . {Access opening for cleaning; Devices for avoiding cumulation of debris}
- 2013/0873 . . . {Rain water reservoirs integrated in down pipes}
- 2013/088 . . . {De-icing devices or snow melters}
- 2013/0886 . . . {Devices for preventing climbing on down pipes}
- 2013/0893 . . . {incorporated in building structure}
- 13/10 . . Snow traps {; Removing snow from roofs; Snow melters}
- 13/103 . . {De-icing devices or snow melters (for drainage outlets E04D 13/0409, for gutters E04D 13/0762, for down pipes E04D 13/08)}
- 13/106 . . {Snow removing devices (for gutters E04D 13/076)}
- 13/12 . . Devices or arrangements allowing walking on the roof or in the gutter
- 13/14 . . Junctions of roof sheathings to chimneys or other parts extending above the roof
- 13/1407 . . {for flat roofs}
- 13/1415 . . . {Junctions to walls extending above the perimeter of the roof (trimming strips, edge strips or fascias retaining the roof sheathing E04D 13/155)}
- 2013/1422 . . {Parapet building elements for retaining the roof flashing}
- 13/143 . . with ventilating means {in junctions of roof sheathings to parts extending above the roof}
- 13/147 . . specially adapted for inclined roofs {(trays for cavity walls E04B 1/70)}
- 13/1471 . . . {using a hinge mechanism for adaptation to the inclined roof}
- 13/1473 . . . {specially adapted to the cross-section of the parts extending above the roof}
- 13/1475 {wherein the parts extending above the roof have a generally rectangular cross-section}
- 13/1476 {wherein the parts extending above the roof have a generally circular cross-section}
- 13/1478 . . . {Junctions to walls extending above the roof}
- 13/15 . . Trimming strips; Edge strips; Fascias; {Expansion joints for roofs (wall copings E04D 3/405; drainage borders E04D 13/0459; joints in general E04B 1/68)}
- 13/151 . . {Expansion joints for roofs}
- 13/152 . . with ventilating means {in soffits or fascias; (on the eaves of the roof E04D 13/178)}
- 13/155 . . retaining the roof sheathing
- 13/158 . . covering the overhang at the eave side, e.g. soffits, or the verge of saddle roofs
- 13/1585 . . . {covering the verge of saddle roofs (gable tiles E04D 1/30)}
- 13/16 . . Insulating devices or arrangements in so far as the roof covering is concerned, {e.g. characterised by the material or composition of the roof insulating material or its integration in the roof structure}
- 13/1606 . . {Insulation of the roof covering characterised by its integration in the roof structure (self-supporting insulating slabs E04B 7/22, E04B 7/225)}
- 13/1612 . . . {the roof structure comprising a supporting framework of roof purlins or rafters}
- 13/1618 {with means for fixing the insulating material between the roof covering and the upper surface of the roof purlins or rafters}
- 13/1625 {with means for supporting the insulating material between the purlins or rafters (insulating layers disposed between two longitudinal supporting elements E04B 1/7654)}
- 13/1631 {the means deriving from the nature or the shape of the insulating material itself}
- 13/1637 {the roof purlins or rafters being mainly insulated from the interior, e.g. the insulating material being fixed under or suspended from the supporting framework}
- 13/1643 . . . {the roof structure being formed by load bearing corrugated sheets, e.g. profiled sheet metal roofs}
- 13/165 {Double skin roofs}
- 13/1656 {Closure strips or elements filling the spaces between the corrugated sheets and a supporting wall}
- 13/1662 . . . {Inverted roofs or exteriorly insulated roofs}
- 13/1668 . . . {the insulating material being masses or granules applied in situ}
- 13/1675 {on saddle-roofs or inclined roof surfaces}
- 13/1681 . . . {Insulating of pre-existing roofs with or without ventilating arrangements}
- 13/1687 . . {the insulating material having provisions for roof drainage}
- 13/1693 . . . {the upper surface of the insulating material forming an inclined surface}
- 13/17 . . Ventilation of roof coverings not otherwise provided for (ventilation of rooms or spaces F24F)
- 13/172 . . {Roof insulating material with provisions for or being arranged for permitting ventilation of the roof covering}
- 13/174 . . {on the ridge of the roof}
- 13/176 . . . {formed by flexible material suitable to be rolled up}

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- 13/178 . . {on the eaves of the roof}
- 15/00 Apparatus or tools for roof working**
- 15/003 . {for removing roof material (for floor coverings [E04G 23/006](#))}
- 15/006 . {for cleaning the roof (for cleaning gutters [E04D 13/0765](#); for removing snow from roofs [E04D 13/106](#))}
- 15/02 . for roof coverings comprising tiles, shingles, or like roofing elements {([E04D 15/003](#) takes precedence)}
- 15/025 . . {Templates, gauges or spacers for installing roof tiles or roof laths (templates for rafters [E04G 21/1891](#))}
- 15/04 . for roof coverings comprising slabs, sheets or flexible material
- 2015/042 . . {Fixing to the roof supporting structure}
- 2015/045 . . . {by nailing}
- 2015/047 . . . {by screwing}
- 15/06 . for handling roofing or sealing material in roll form
- 15/07 . for handling roofing or sealing material in bulk form