

SECTION E — FIXED CONSTRUCTIONS

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(s)

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.

Subclass index

ROOF COVERINGS

Tiles or slates; slabs or stiff sheets; flexible materials.....1/00, 3/00, 5/00, 11/00
Bulk materials, straw or thatch.....7/00, 9/00, 11/00
Other materials.....11/00

SPECIAL ARRANGEMENTS IN CONNECTION WITH ROOF COVERINGS.....12/00, 13/00

APPARATUS OR TOOLS FOR ROOF WORKING.....15/00

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| <p>1/00 Roof covering by making use of tiles, slates, shingles, or other small roofing elements (roofing supports E04D 12/00)</p> <p>1/02 • Grooved or vaulted roofing elements (E04D 1/28, E04D 1/30 take precedence)</p> <p>1/04 • • of ceramics, glass or concrete, with or without reinforcement</p> <p>1/06 • • of metal</p> <p>1/08 • • of plastics; of fibrous materials</p> <p>1/10 • • of specified materials, or of combinations of materials, not covered by any one of groups E04D 1/04-E04D 1/08</p> <p>1/12 • Roofing elements shaped as plain tiles or shingles, i.e. with flat outer surface (E04D 1/28, E04D 1/30 take precedence)</p> <p>1/14 • • of slate material, with or without fastening means</p> <p>1/16 • • of ceramics, glass or concrete, with or without reinforcement</p> <p>1/18 • • of metal</p> <p>1/20 • • of plastics, fibrous materials, or wood</p> <p>1/22 • • of specified materials, or of combinations of materials, not covered by any one of groups E04D 1/14-E04D 1/20</p> <p>1/24 • Roofing elements with cavities, e.g. hollow tiles (E04D 1/28 takes precedence)</p> <p>1/26 • Strip-shaped roofing elements appearing as a row of shingles</p> <p>1/28 • Roofing elements comprising two or more layers, e.g. for insulation</p> <p>1/30 • Special roof-covering elements, e.g. ridge tiles, gutter tiles, gable tiles, ventilation tiles (E04D 3/40 takes precedence; roof covering aspects of energy collecting devices E04D 13/18)</p> <p>1/34 • Fastenings for attaching roof-covering elements to the supporting elements</p> | <p>1/36 • Devices for sealing the spaces or joints between roof-covering elements (sealing joints not restricted to roof covering elements E04B 1/68)</p> <p>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)</p> <p>3/02 • of plane slabs, slates, or sheets, or in which the cross-section is unimportant (E04D 3/35 takes precedence)</p> <p>3/04 • • of concrete or ceramics (of asbestos cement E04D 3/18)</p> <p>3/06 • • of glass or other translucent material; Fixing means therefor (fixing glass panes by means applicable to windows E06B 3/54)</p> <p>3/08 • • • with metal glazing bars</p> <p>3/14 • • • with glazing bars of other material, e.g. of glass</p> <p>3/16 • • of metal</p> <p>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</p> <p>3/24 • with special cross-section, e.g. with corrugations on both sides, with ribs, flanges, or the like (E04D 3/35 takes precedence)</p> <p>3/26 • • of concrete or ceramics</p> <p>3/28 • • of glass</p> <p>3/30 • • of metal</p> <p>3/32 • • of plastics, fibrous materials, or asbestos cement</p> <p>3/34 • • of specified materials, or of combinations of materials, not covered by any one of groups E04D 3/26-E04D 3/32</p> <p>3/35 • Roofing slabs or stiff sheets comprising two or more layers, e.g. for insulation</p> <p>3/36 • Connecting; Fastening</p> |
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Note(s)

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.

- 3/361 • • by specially-profiled marginal portions of the slabs or sheets
- 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 [4]
- 3/3645 • • • by interference fitting [4]
- 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
- 3/367 • • by permanent deformation of the marginal portions of adjacent slabs or sheets, e.g. by folding the edges [4]
- 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
- 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 (roof covering aspects of energy collecting devices E04D 13/18)

- 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; built-up roofs E04D 11/02)

Note(s)

Group E04D 5/12 takes precedence over groups E04D 5/02-E04D 5/08.

- 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 (E04D 5/12 takes precedence)
- 5/12 • specially modified, e.g. perforated, with granulated surface, with attached pads
- 5/14 • Fastening means therefor

- 7/00 **Roof covering by sealing masses applied in situ; Gravelling of flat roofs**

- 9/00 **Roof covering by using straw, thatch, or like materials** (impregnation against incendiary damage B27K)

- 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**

- 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 E04D 7/00; venting or ventilation E04D 13/17)

- 12/00 **Non-structural supports for roofing materials, e.g. battens, boards** (E04D 11/02 takes precedence)

- 13/00 **Special arrangements or devices in connection with roof coverings; Roof drainage** (ventilation tiles E04D 1/30; ventilation slabs E04D 3/40; internal channels E04F 17/00; roofing elements therefor, see the relevant groups)

- 13/02 • Roof-covering aspects of dormer windows (E04D 13/14 takes precedence; structures therefor E04B 7/18)
- 13/03 • Sky-lights; Domes; Ventilating sky-lights (E04D 13/14 takes precedence; structures therefor E04B 7/18)
- 13/035 • • characterised by having movable parts
- 13/04 • Roof drainage; Drainage fittings in flat roofs (gutter tiles E04D 1/30; gutter slabs E04D 3/40; street gullies E03F 5/04)
- 13/064 • • Gutters [6]
- 13/068 • • • Means for fastening gutter parts together [6]
- 13/072 • • • Hanging means (in combination with means for fastening gutter parts together E04D 13/068) [6]
- 13/076 • • Devices or arrangements for removing snow, ice or debris from gutters or for preventing accumulation thereof [6]
- 13/08 • • Down pipes; Special clamping means therefor (clamping pipes in general F16B, F16L)
- 13/10 • Snow traps
- 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
- 13/143 • • with ventilating means [6]
- 13/147 • • specially adapted for inclined roofs [6]
- 13/15 • Trimming strips; Edge strips; Fascias (E04D 13/14 takes precedence) [6]
- 13/152 • • with ventilating means [6]
- 13/155 • • retaining the roof sheathing [6]
- 13/158 • • covering the overhang at the eave side, e.g. soffits, or the verge of saddle roofs [6]
- 13/16 • Insulating devices or arrangements in so far as the roof covering is concerned (methods for keeping dry building structures in general E04B 1/70; buildings for extreme climates E04H 9/16) [6]
- 13/17 • Ventilation of roof coverings not otherwise provided for (ventilation of rooms or spaces F24F) [6]
- 13/18 • Roof covering aspects of energy collecting devices, e.g. including solar panels (heat collectors per se F24J, e.g. solar heat collectors F24J 2/02; semiconductor devices for converting solar energy into electrical energy H01L 25/00, H01L 31/00) [4]

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

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