

Symbol	Typ	Titel
E	Sektion	SECTION E — FIXED CONSTRUCTIONS
E04	Klasse	BUILDING (layered materials, layered products in general B32B)
E04D	Unterklasse	ROOF COVERINGS; SKY-LIGHTS; GUTTERS; ROOF-WORKING TOOLS (coverings of outer walls by plaster or other porous material E04F 13/00)
E04D 1/00	Hauptgruppe	Roof covering by making use of tiles, slates, shingles, or other small roofing elements (roofing supports E04D 12/00)
E04D 1/02	1-Punkt Untergruppe	. Grooved or vaulted roofing elements (E04D 1/28, E04D 1/30 take precedence)
E04D 1/04	2-Punkt Untergruppe	. . of ceramics, glass or concrete, with or without reinforcement
E04D 1/06	2-Punkt Untergruppe	. . of metal
E04D 1/08	2-Punkt Untergruppe	. . of plastics; of fibrous materials
E04D 1/10	2-Punkt Untergruppe	. . of specified materials, or of combinations of materials, not covered by any one of groups E04D 1/04-E04D 1/08
E04D 1/12	1-Punkt Untergruppe	. Roofing elements shaped as plain tiles or shingles, i.e. with flat outer surface (E04D 1/28, E04D 1/30 take precedence)
E04D 1/14	2-Punkt Untergruppe	. . of slate material, with or without fastening means
E04D 1/16	2-Punkt Untergruppe	. . of ceramics, glass or concrete, with or without reinforcement
E04D 1/18	2-Punkt Untergruppe	. . of metal
E04D 1/20	2-Punkt Untergruppe	. . of plastics, fibrous materials, or wood
E04D 1/22	2-Punkt Untergruppe	. . of specified materials, or of combinations of materials, not covered by any one of groups E04D 1/14-E04D 1/20
E04D 1/24	1-Punkt Untergruppe	. Roofing elements with cavities, e.g. hollow tiles (E04D 1/28 takes precedence)
E04D 1/26	1-Punkt Untergruppe	. Strip-shaped roofing elements appearing as a row of shingles
E04D 1/28	1-Punkt Untergruppe	. Roofing elements comprising two or more layers, e.g. for insulation
E04D 1/30	1-Punkt Untergruppe	. 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)
E04D 1/34	1-Punkt Untergruppe	. Fastenings for attaching roof-covering elements to the supporting elements
E04D 1/36	1-Punkt Untergruppe	. Devices for sealing the spaces or joints between roof-covering elements (sealing joints not restricted to roof covering elements E04B 1/68)
E04D 3/00	Hauptgruppe	Roof covering by making use of flat or curved slabs or stiff sheets (E04D 1/00 takes precedence; built-up roofs E04D 11/02)
E04D 3/02	1-Punkt Untergruppe	. of plane slabs, slates, or sheets, or in which the cross-section is unimportant (E04D 3/35 takes precedence)
E04D 3/04	2-Punkt Untergruppe	. . of concrete or ceramics (of asbestos cement E04D 3/18)
E04D 3/06	2-Punkt Untergruppe	. . of glass or other translucent material; Fixing means therefor (fixing glass panes by means applicable to windows E06B 3/54)
E04D 3/08	3-Punkt Untergruppe	. . . with metal glazing bars
E04D 3/14	3-Punkt Untergruppe	. . . with glazing bars of other material, e.g. of glass
E04D 3/16	2-Punkt Untergruppe	. . of metal

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E04D 3/18	2-Punkt Untergruppe	. . of specified materials, or of combinations of materials, not covered by any of groups E04D 3/04, E04D 3/06 or E04D 3/16
E04D 3/24	1-Punkt Untergruppe	. with special cross-section, e.g. with corrugations on both sides, with ribs, flanges, or the like (E04D 3/35 takes precedence)
E04D 3/26	2-Punkt Untergruppe	. . of concrete or ceramics
E04D 3/28	2-Punkt Untergruppe	. . of glass
E04D 3/30	2-Punkt Untergruppe	. . of metal
E04D 3/32	2-Punkt Untergruppe	. . of plastics, fibrous materials, or asbestos cement
E04D 3/34	2-Punkt Untergruppe	. . of specified materials, or of combinations of materials, not covered by any one of groups E04D 3/26-E04D 3/32
E04D 3/35	1-Punkt Untergruppe	. Roofing slabs or stiff sheets comprising two or more layers, e.g. for insulation
E04D 3/36	1-Punkt Untergruppe	. Connecting; Fastening
E04D 3/361	2-Punkt Untergruppe	. . by specially-profiled marginal portions of the slabs or sheets
E04D 3/362	3-Punkt Untergruppe	. . . 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
E04D 3/363	3-Punkt Untergruppe	. . . with snap action [4]
E04D 3/3645	3-Punkt Untergruppe	. . . by interference fitting [4]
E04D 3/365	2-Punkt Untergruppe	. . by simple overlapping of the marginal portions with use of separate connecting elements, e.g. hooks or bolts for corrugated sheets
E04D 3/366	2-Punkt Untergruppe	. . by closing the space between the slabs or sheets by gutters, bulges, or bridging elements, e.g. strips
E04D 3/367	2-Punkt Untergruppe	. . by permanent deformation of the marginal portions of adjacent slabs or sheets, e.g. by folding the edges [4]
E04D 3/368	2-Punkt Untergruppe	. . by forcing together the marginal portions of adjacent slabs or sheets
E04D 3/369	2-Punkt Untergruppe	. . by welding of the marginal portions of adjacent slabs or sheets
E04D 3/38	1-Punkt Untergruppe	. 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)
E04D 3/40	1-Punkt Untergruppe	. 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)
E04D 5/00	Hauptgruppe	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)
E04D 5/02	1-Punkt Untergruppe	. of materials impregnated with sealing substances, e.g. roofing felt
E04D 5/04	1-Punkt Untergruppe	. by making use of metal foils
E04D 5/06	1-Punkt Untergruppe	. by making use of plastics
E04D 5/08	1-Punkt Untergruppe	. by making use of other materials
E04D 5/10	1-Punkt Untergruppe	. by making use of compounded or laminated materials, e.g. metal foils or plastic films coated with bitumen (E04D 5/12 takes precedence)
E04D 5/12	1-Punkt Untergruppe	. specially modified, e.g. perforated, with granulated surface, with attached pads

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E04D 5/14	1-Punkt Untergruppe	. Fastening means therefor
E04D 7/00	Hauptgruppe	Roof covering by sealing masses applied <u>in situ</u>; Graveling of flat roofs
E04D 9/00	Hauptgruppe	Roof covering by using straw, thatch, or like materials (impregnation against incendiary damage B27K)
E04D 11/00	Hauptgruppe	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
E04D 11/02	1-Punkt Untergruppe	. Built-up roofs, i.e. consisting of two or more layers bonded together <u>in situ</u> , at least one of the layers being of watertight composition (graveling of flat roofs E04D 7/00; venting or ventilation E04D 13/17)
E04D 12/00	Hauptgruppe	Non-structural supports for roofing materials, e.g. battens, boards (E04D 11/02 takes precedence)
E04D 13/00	Hauptgruppe	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, <u>see</u> the relevant groups)
E04D 13/02	1-Punkt Untergruppe	. Roof-covering aspects of dormer windows (E04D 13/14 takes precedence; structures therefor E04B 7/18)
E04D 13/03	1-Punkt Untergruppe	. Sky-lights; Domes; Ventilating sky-lights (E04D 13/14 takes precedence; structures therefor E04B 7/18)
E04D 13/035	2-Punkt Untergruppe	. . characterised by having movable parts
E04D 13/04	1-Punkt Untergruppe	. Roof drainage; Drainage fittings in flat roofs (gutter tiles E04D 1/30; gutter slabs E04D 3/40; street gullies E03F 5/04)
E04D 13/064	2-Punkt Untergruppe	. . Gutters [6]
E04D 13/068	3-Punkt Untergruppe	. . . Means for fastening gutter parts together [6]
E04D 13/072	3-Punkt Untergruppe	. . . Hanging means (in combination with means for fastening gutter parts together E04D 13/068) [6]
E04D 13/076	2-Punkt Untergruppe	. . Devices or arrangements for removing snow, ice or debris from gutters or for preventing accumulation thereof [6]
E04D 13/08	2-Punkt Untergruppe	. . Down pipes; Special clamping means therefor (clamping pipes in general F16B, F16L)
E04D 13/10	1-Punkt Untergruppe	. Snow traps
E04D 13/12	1-Punkt Untergruppe	. Devices or arrangements allowing walking on the roof or in the gutter
E04D 13/14	1-Punkt Untergruppe	. Junctions of roof sheathings to chimneys or other parts extending above the roof
E04D 13/143	2-Punkt Untergruppe	. . with ventilating means [6]
E04D 13/147	2-Punkt Untergruppe	. . specially adapted for inclined roofs [6]
E04D 13/15	1-Punkt Untergruppe	. Trimming strips; Edge strips; Fascias (E04D 13/14 takes precedence) [6]
E04D 13/152	2-Punkt Untergruppe	. . with ventilating means [6]
E04D 13/155	2-Punkt Untergruppe	. . retaining the roof sheathing [6]
E04D 13/158	2-Punkt Untergruppe	. . covering the overhang at the eave side, e.g. soffits, or the verge of saddle roofs [6]
E04D 13/16	1-Punkt Untergruppe	. 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]
E04D 13/17	1-Punkt Untergruppe	. Ventilation of roof coverings not otherwise provided for (ventilation of rooms or spaces F24F) [6]

Symbol	Typ	Titel
E04D 13/18	1-Punkt Untergruppe	. Roof covering aspects of energy collecting devices, e.g. including solar panels (heat collectors <u>per se</u> 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]
E04D 15/00	Hauptgruppe	Apparatus or tools for roof working
E04D 15/02	1-Punkt Untergruppe	. for roof coverings comprising tiles, shingles, or like roofing elements
E04D 15/04	1-Punkt Untergruppe	. for roof coverings comprising slabs, sheets or flexible material
E04D 15/06	1-Punkt Untergruppe	. for handling roofing or sealing material in roll form
E04D 15/07	1-Punkt Untergruppe	. for handling roofing or sealing material in bulk form