

ECLA EUROPEAN CLASSIFICATION

E01F ADDITIONAL WORK, SUCH AS EQUIPPING ROADS OR THE CONSTRUCTION OF PLATFORMS, HELICOPTER LANDING STAGES, SIGNS, SNOW FENCES, OR THE LIKE

[N: **WARNING**

The following IPC groups are not used in the internal ECLA classification scheme. Subject matter covered by these groups is classified in the following groups:

[E01F15/10](#) covered by [E01F15/02](#)

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Guide heading: Arrangement or construction of additional equipment for roads or railways, Landing stages for helicopters

- E01F1/00** Construction of [N: station or like] platforms or refuge islands [N: or like islands in traffic areas, e.g. intersection or filling-station islands] (general arrangement [N: of filling stations [B60S5/02](#),] of railway platforms [N: [B61B1/02](#), of traffic-channelling island at intersections [E01C1/02](#)])[N: ; Kerbs specially adapted for islands in traffic areas (specially adapted for guiding, marking or signalling [E01F9/053B](#), for illumination [E01F9/053D](#); lane separators diverting traffic past safety zones [E01F9/087](#))] [C9810]
- E01F1/00B** . [N: Portable or movable traffic-area platforms or islands, e.g. portable loading islands, retractable platforms for traffic-directing officer]
- E01F3/00** Landing stages for helicopters, e.g. located above buildings (layout of airfields [B64E](#); buildings or like structures for special purposes [E04H](#))
- E01F5/00** Draining the sub-base [N: i.e. subgrade or ground-work, e.g. embankment] of roads or [N: of the] ballastway of railways [N: or draining-off road surface or ballastway drainage] by trenches, culverts, or conduits [N: or other specially adapted means] ([N: drainage of the ballastway of railways [E01B11/00](#); surface drainage of roads [E01C11/22C](#); drainage of soil [E02B11/00](#);] underground drainage [E02D](#); conduits for sewerage [E03F](#))
- E01F5/00B** . [N: Culverts (underground siphons [E02D29/08](#); tunnels or galleries [E21D](#); pipes in general [F16L](#)); Head-structures for culverts, or for drainage-conduit outlets in slopes]
- E01F7/00** Devices affording protection against snow, sand drifts, side-wind effects, snowslides, avalanches or falling rocks (permanently installed heating or blowing devices for roads [E01C11/26](#)); Anti-dazzle arrangements [N:; Sight-screens for roads, e.g. to mask accident site ([E01F8/00](#) takes precedence)]
- E01F7/02** . Snow fences or similar devices, e.g. devices affording protection against sand drifts or side-wind effects (fences in general [E04H17/00](#))
- E01F7/02B** . . [N: Devices specially adapted for protecting against wind, e.g. screens, deflectors or attenuators at tunnel or lock entrances (for protecting plants [A01G13/00](#); portable windscreens, e.g. for beach use [E04H15/00B](#); noise absorption; airfield deflectors for jet gases [B64F1/26](#))]
- E01F7/04** . Devices affording protection against snowslides, avalanches or falling rocks, e.g.

- avalanche preventing structures, galleries ([securing of slopes E02D17/20](#); [roof snow-traps E04D13/10](#))
- E01F7/04B . . [N: Devices specially adapted for protecting against falling rocks, e.g. galleries, nets, rock traps ([crash-barriers with nets E01F15/06](#); [safety arrangements for blasting F42D5/00](#))] [C9509]
- E01F7/06 . Anti-dazzle arrangements ([E01F8/00 takes precedence](#)) [N: [Securing anti-dazzle means to crash-barriers \(securing signs or supports therefor to crash-barriers E01F9/03\)](#)] [C9509]
- E01F8/00** **Arrangements for absorbing or reflecting air-transmitted noise from road or railway traffic** ([ground installations for reducing aircraft noise B64F1/26](#); [general building constructions for absorbing or reflecting noise, noise absorption or reflection for buildings E04B1/74](#))
- E01F8/00A . [N: used in a wall type arrangement] [C9709]
- E01F8/00A5 . . [N: Plank-like elements]
- E01F8/00A10 . . [N: Plate-like elements ([E01F8/00A25 takes precedence](#))]
- E01F8/00A15 . . [N: Details, e.g. foundations ([solar cells specially adapted to be used in motorway sound barriers H01L31/042C](#))] [C9707]
- E01F8/00A20 . . [N: with porous surfaces, e.g. concrete with porous fillers]
- E01F8/00A25 . . [N: with undulated surfaces ([E01F8/00A20](#), [E01F8/00A35A take precedence](#))]
- E01F8/00A30 . . [N: Free-standing grates]
- E01F8/00A35 . . [N: with open cavities, e.g. for covering sunken roads]
- E01F8/00A35A . . . [N: Grate-style, e.g. as wall facing]
- E01F8/00A35A1 [N: with damping material, e.g. rockwool, sand]
- E01F8/00A35B . . . [N: Perforated plate or mesh, e.g. as wall facing]
- E01F8/00A35B1 [N: with damping material]
- E01F8/00A35E . . . [N: Cellular, e.g. as wall facing]
- E01F8/00A35E1 [N: with damping material]
- E01F8/00A40 . . [N: Suspended, e.g. ropes or mesh]
- E01F8/00C . [N: constructions for generation of phase shifting] [N9509]
- E01F8/02 . specially adapted for sustaining vegetation or for accommodating plants ([receptacles for cultivation of plants A01G9/02](#); [securing slopes or inclines E02D17/20](#); [retaining or protecting walls E02D29/02](#)); [N: Embankment-type or crib-type noise barriers; [Retaining walls specially adapted to absorb or reflect noise \(building elements for planting walls E04C1/39B\)](#)] [N9509]
- E01F8/02A . . [N: with integral support structure] [N9509]
- E01F8/02A2 . . . [N: Crib-type ([E01F8/02A4 takes precedence](#))] [N9509]
- E01F8/02A4 . . . [N: made of stacked or staggered elements, e.g. hollow] [N9509]
- E01F8/02A6 . . . [N: Beam-type, e.g. square-set] [N9509]
- E01F8/02A8 . . . [N: Gabion-type] [N9509]
- E01F8/02A10 . . . [N: Live wall, e.g. interlaced twines] [N9509]
- E01F8/02B . . [N: with external support, e.g. wall facing] [N9509]
- E01F8/02B2 . . . [N: Through-type, e.g. between adjacent kerbs] [N9509]

Guide heading: Arrangements for facilitating the use of roads

- E01F9/00 Arrangement of road signs or traffic signals (signals, signalling systems [G08](#); signs, attachment thereof to supports [G09F](#)); Arrangements for enforcing caution, e.g. speed bumps [C9509](#)]**
- E01F9/00B** . [\[N: Use of light guides, e.g. fibre optic devices \(in lighting devices or systems \[F21S5/00\]\(#\); indicating arrangements with optic fibres \[G09F9/30F\]\(#\)\)\]](#)
- E01F9/00C** . [\[N: Marking means constituting or comprising active or passive components adapted to interact with vehicle-borne or remote receivers or transmitters for purposes other than light reflection, light guiding or photoluminescence, e.g. forming radar reflectors, incorporating radio transmitters \(\[E01F11/00\]\(#\) takes precedence; control of position or course of vehicles \[G05D1/02\]\(#\)\)\]](#)
- E01F9/00D** . [\[N: Marking means with components adapted to auto-react to adverse atmospheric conditions, e.g. to signal icy road, to self-illuminate in fog; Marking or traffic control means with specific heating or drying arrangements\]](#)
- E01F9/011** . Upright bodies, e.g. marker posts or bollards; Supports for road signs, [\[N: e.g. posts, frames, gantries\] \(\[N: \[E01F9/04D\]\(#\), \[E01F9/053B\]\(#\), \[E01F13/02\]\(#\) take precedence;\] posts or poles in general \[E04H12/00\]\(#\); means for attaching signs to a supporting structure in general \[G09F7/18\]\(#\)\) \[\\[N9509\\]\]\(#\)](#)
- E01F9/011B** . . [\[N: Traffic guidance, warning or control posts, bollards, e.g. delineator posts, milestones \(barrier bollards \[E01F13/00\]\(#\); buffer bollards \[E01F15/00A\]\(#\); boundary markers in general \[G01C15/04\]\(#\)\)\] \[\\[N9509\\]\]\(#\) \[\\[C9810\\]\]\(#\)](#)
- E01F9/011B2** . . . [\[N: Special features of delineator posts, e.g. with parts cantilevered toward the roadway or fixed vertically on a tilted surface \(\[E01F9/03\]\(#\), \[E01F9/053\]\(#\), \[E01F9/08\]\(#\) take precedence\)\] \[\\[N9509\\]\]\(#\)](#)
- E01F9/011D** . . [\[N: Gantries or semi-gantries; Foundation means specially adapted therefor\] \[\\[N9509\\]\]\(#\)](#)
- E01F9/011F** . . [\[N: Holders for traffic poles \(\[E01F9/011B2\]\(#\), \[E01F9/011D\]\(#\), \[E01F9/011G\]\(#\), \[E01F9/013\]\(#\) take precedence\)\] \[\\[N9509\\]\]\(#\)](#)
- E01F9/011F2** . . . [\[N: Glued to surface, e.g. road\] \[\\[N9602\\]\]\(#\)](#)
- E01F9/011F4** . . . [\[N: Removably fixed, e.g. by screws or bolts\] \[\\[N9602\\]\]\(#\)](#)
- E01F9/011F6** . . . [\[N: Subsoil fixings, e.g. foundations for holders or posts\] \[\\[N9602\\]\]\(#\)](#)
- E01F9/011G** . . [\[N: designed or adapted to rotatably, swingably or adjustably carry the sign or signal \(\[E01F9/019\]\(#\) takes precedence; means for adjustably, rotatably or swingably attaching signs to a supporting structure in general \[G09F7/20\]\(#\), \[G09F7/22\]\(#\)\)\] \[\\[N9509\\]\]\(#\)](#)
- E01F9/012** . . Free-standing, e.g. traffic cones, foldable or inflatable devices; [\[N: Portable supports \(for barriers \[E01F13/02\]\(#\)\); Portable traffic signs or signals \(specially adapted for fitting to raised kerbs \[E01F9/053B\]\(#\), to portable barriers \[E01F13/02\]\(#\), to crash barriers \[E01F9/03\]\(#\); normal vehicle equipment portable emergency signal devices to be placed on way \[B60Q7/00\]\(#\); portable traffic signalling devices, i.e. hand signals \[G08B5/00C\]\(#\)\)\] \[\\[N9509\\]\]\(#\)](#)
- E01F9/012A** . . . [\[N: in the form of a three-dimensional body, other than of the relatively thin panel type, or designed to assume such form, e.g. cones, devices expandable or erectable to form a geometric body; Inflatable structures\]\]\[\\[N9509\\]\]\(#\)](#)
- E01F9/012D** . . . [\[N: Portable base members \(post holders to be placed on the ground in general \[E04H12/22B\]\(#\)\)\] \[\\[N9509\\]\]\(#\)](#)

- E01F9/012E . . . [N: mounted on vehicles, e.g. for rapid change of station, as signal fitting of service vehicle (vehicle aspects [B60P](#), [B62D](#)); Warning vehicles designed to move along with traveling road-maintenance, e.g. remotely controlled (mobile impact cushioning arrangements [E01F15/14](#))] [N9509] [C9810]
- E01F9/012G . . . [N: specially adapted for indicating freshly applied road surface markings, e.g. for straddling wet paint lines] [N9509]
- E01F9/013 . . . intended to be readily removable, e.g. for insertion into road-stud sockets ([E01F9/012](#) takes precedence); [N: Base members specially adapted therefor ([E01F9/018](#), [E01F13/02C2](#) take precedence)] [N9509] [C9602]
- E01F9/014 . . . Storing, transporting, placing or retrieving portable devices, [N: e.g. road cones emplacing vehicles (vehicle aspects [B60P](#), [B62D](#); applying permanent markers, e.g. buttons [E01C23/18](#))] [N9509]
- E01F9/015 . . . with reflectors, e.g. with means for keeping clean, [N: e.g. for delineator posts; Substituting reflecting means by unsoiled ones] [N9509]
- E01F9/016 . . . illuminated, [N: e.g. with provisions for wiring-up, lights for illuminated signs] (for obstructing or restricting traffic [E01F13/00](#); [N: lighting, e.g. for sheets [F21](#); illuminated signs in general [G09F13/00](#))] [N9509]
- E01F9/016B . . . [N: Illuminated or wired-up posts, bollards, pillars or like upstanding bodies or structures for traffic guidance, warning or control ([E01F9/06B](#) takes precedence)] [N9509]
- E01F9/017 . . . self-righting after deflection or displacement [N: ([E01F9/012](#), [E01F9/04D](#), [E01F9/07D](#) take precedence)] [N9509]
- E01F9/017B . . . [N: Traffic guidance, warning or control posts, bollards, pillars or like upstanding bodies or structures] [N9509]
- E01F9/018 . . . specially adapted for breaking, disengaging, collapsing or permanent deformation upon deflection or displacement, e.g. upon vehicle impact; [N: replaceable couplings ([E01F9/011G](#), [E01F9/012](#), [E01F9/014](#), [E01F9/016](#), [E01F9/017](#) take precedence)] [N9509] [C9602]
- E01F9/018C . . . [N: by shearing or tearing, e.g. having weakened zones] [N9602]
- E01F9/018E . . . [N: by connection of the "slide-shoe" type] [N9602]
- E01F9/018H . . . [N: by connection of the "male-female" type, e.g. spring-loaded ([E01F9/018C](#), [E01F9/018K](#) take precedence)] [N9602]
- E01F9/018K . . . [N: Friction coupled] [N9602]
- E01F9/019 . . . Extensible, collapsible or pivotable, [N: e.g. telescopic] ([E01F9/017](#), [E01F9/018](#) take precedence); [N: Retractable or otherwise movable to an underground position ([E01F9/093](#), [E01F13/04C2](#), [E01F13/08B](#) take precedence; retractable traffic islands [E01F1/00B](#))] [N9509]
- E01F9/03 . . . Arrangements for fastening signs or signals to safety barriers or the like [N: (securing anti-dazzle means [E01F7/06](#))]
- E01F9/04 . . . Road surface markings; Kerbs or road edgings, specially adapted for informing road users, e.g. illuminated (for redirecting vehicles [E01F15/00](#)) [C9509]
- E01F9/04B . . . [N: Selection of materials for road surface marking, e.g. wheel-grip improving additives, reflecting particles (specially adapted for kerbs [E01F9/053](#), for playing grounds [A63C19/06](#); reflecting or signal paints [C09D5/00C](#)); Methods of forming, installing or applying markings in, on or to paving ([E01F9/047](#), [E01F9/053](#), [E01F9/06](#) take precedence; devices therefor [E01C](#))] [C9509]
- E01F9/04B2 . . . [N: Preformed markings, e.g. materials for sheets or signs, methods of bonding same to road surface (traffice line tapes [E01F9/08C](#))]
- E01F9/04B3 . . . [N: Reflecting elements specially adapted for incorporation in or application to road surface marking materials, sheets or tapes (reflectors for individual road surface markers [E01F9/06](#))]

- E01F9/04D . . [N: Upright or projecting signs or signals permanently installed directly on or in the roadway and designed to be depressed by rolling or other loads and then to return to normal position, e.g. collapsible or rockable stop signs, flexible vehicle-striking members for audible warning ([E01F9/07](#), [E01F13/10](#) take precedence)] [C9509]
- E01F9/047 . . specially adapted for audible or vibrational signalling, e.g. rumble strips [N: across a lane], or for enforcing reduced speed, e.g. speed bumps [N: ([E01F9/04D](#), [E01F9/053](#), [E01F13/10](#) take precedence)] [N9509]
- E01F9/053 . . Kerbs or road edgings, specially adapted for informing road users, e.g. illuminated [N9509]
- E01F9/053B . . . [N: Raised kerbs, e.g. reflective facings, traffic-actuated cleaning means for kerb reflectors; Signs or display means specially for association therewith, e.g. for indicating street names ([E01F9/053D](#) takes precedence)] [N9509]
- E01F9/053D . . . [N: Illuminated kerbs; Kerbs with illuminated signs or displays (illuminated traffic lines [E01F9/08E](#))] [N9509]
- E01F9/06 . . Traffic studs; Marking blocks [N: like individual road surface markers, e.g. buttons, flaps ([E01F9/08C](#) takes precedence); Methods of forming or installing same in or on the road surface (devices therefor [E01C](#)); Protecting same during road maintenance work; Reflectors specially for individual road surface markers; Illuminated low-built traffic guiding, warning or controlling bodies, e.g. of mushroom or dome type] [C9509]
- E01F9/06B . . . [N: illuminated; Illuminated low-built road traffic guiding, warning or controlling bodies, e.g. of mushroom or dome type (illuminated bollards [E01F9/016B](#))] [C9509]
- E01F9/07 . . . having deflectable or displaceable parts, with or without return to original position, e.g. flexible flaps [N9509]
- E01F9/07B [N: designed to descend or deform under load essentially vertically downwards into the road or a housing, with or without concurrent rotational movement, while biased to raised position] [N9509]
- E01F9/07D [N: Self-righting, upright flexible or rockable markers, e.g. resilient flaps bending over (depressible road surface signs or flexible vehicle-striking members for audible warning [E01F9/04D](#))] [N9509]
- E01F9/08 . . Traffic lines, [N: e.g. edge lines (flush kerbs or edge strips specially adapted for traffic guidance [E01F9/053](#)); Methods of forming, installing or applying same in, on or to the road (devices therefor [E01C23/16](#)); Traffic lane separators] [C9702]
- E01F9/08B . . . [N: formed in situ, e.g. painted on or cast into the road, made by sculpturing the surface ([E01F9/08E](#), [E01F9/087](#) take precedence; materials therefor [E01F9/04B](#))] [C9702]
- E01F9/08C . . . [N: consisting of preformed elements, e.g. tapes, block-type elements specially designed or arranged to make up a traffic line ([E01F9/08E](#), [E01F9/087](#), [E01F9/093](#) take precedence; studs, blocks or like markers per se [E01F9/06](#))] [C9509]
- E01F9/08E . . . [N: Illuminated traffic lines ([E01F9/093](#) takes precedence)] [C9509]
- E01F9/087 . . . Lane delineators for physically separating traffic lanes and discouraging but not preventing crossing [N: ,e.g. low barriers for channelling traffic ([E01F9/093](#) takes precedence; insurmountable lane-separating barriers [E01F15/00F](#), [E01F15/02](#))] [N9509]
- E01F9/093 . . . movable for repeated use at different locations [N: ,e.g. shiftable lines, line location transferable by selective illumination, retractable lane delineating posts ([E01F15/00F](#) takes precedence; retractable posts [E01F9/019](#))] [N9509]
- E01F11/00 [N: Road engineering aspects of] **Embedding pads or other sensitive devices in paving or other road surfaces** [N: e.g. traffic detectors, vehicle-operated pressure-sensitive actuators, devices for monitoring atmospheric or road conditions] (pressure-sensitive elements [G01L](#); traffic control systems [G08G](#))

- E01F13/00** **Arrangements for obstructing or restricting traffic, e.g. gates, barricades (for railway crossings [B61L](#)); [N: Preventing passage of vehicles of selected category or dimensions ([E01F13/12](#), [E01F13/12G](#) take precedence)]**
- E01F13/02** . free-standing; [N: portable, e.g. for guarding open manholes ([E01F9/012](#) takes precedence); Portable signs or signals specially adapted for fitting to portable barriers] [[C9509](#)]
- E01F13/02B** . . [N: Pedestrian barriers; Barriers for channelling or controlling crowds ([E01F13/02C](#), [E01F13/02D](#) take precedence; corrals [E04H17/18](#))]
- E01F13/02C** . . [N: Removable barriers with permanently installed base members, e.g. to provide occasional passage ([E01F13/02D](#), [E01F15/12](#) take precedence)] [[C9810](#)]
- E01F13/02C2** . . . [N: Detachable barrier bollards or parking posts (portable signs co-operating with permanent base [E01F9/013](#))] [[C9509](#)]
- E01F13/02D** . . [N: Flexible barrier members, e.g. cords; Means for rendering same conspicuous; Adapted supports, e.g. with storage reel]
- E01F13/04** . movable to allow or prevent passage [N: ([E01F13/12](#), [E01F15/12](#) take precedence; removing part of barrier for occasional passage [E01F13/02C](#); gates for allowing passage through fences [E06B11/02](#))]
- E01F13/04B** . . [N: for controlling access to an individual parking space ([E01F13/02C2](#), [E01F13/04C2](#), [E01F13/06B](#), [E01F13/08B](#) take precedence)]
- E01F13/04C** . . [N: the barrier being formed by obstructing members situated on, flush with, or below the traffic surface, e.g. with inflatable members on the surface ([E01F13/08](#), [E01F13/10](#) take precedence; retractable speed humps [E01F9/047](#))] [[C9509](#)]
- E01F13/04C2** . . . [N: the obstructing members moving up in a translatory motion, e.g. telescopic barrier posts (for lane control [E01F9/093](#))] [[C9509](#)]
- E01F13/04D** . . [N: with obstructing members moving in a translatory motion, e.g. vertical lift barriers, sliding gates ([E01F13/04C2](#), [E01F13/10B](#) take precedence)]
- E01F13/06** . . by swinging into open position about a [N: vertical or] horizontal axis parallel to the road direction, i.e. swinging gates
- E01F13/06B** . . . [N: specially adapted for individual parking spaces]
- E01F13/08** . . by swinging into closed position about a transverse axis situated in the road surface, e.g. tiltable sections of the road surface, tiltable parking posts
- E01F13/08B** . . . [N: specially adapted for individual parking spaces]
- E01F13/10** . Vehicle barriers specially adapted for allowing passage in one direction only
- E01F13/10B** . . [N: depressible by right-way traffic, e.g. pivotally; actuated by wrong-way traffic (type-disabling elements [E01F13/12D](#))]
- E01F13/12** . for forcibly arresting or disabling vehicles, e.g. spiked mats
- E01F13/12D** . . [N: depressible or retractable below the traffic surface, e.g. one-way spike barriers, power-controlled prong barriers]
- E01F13/12G** . . [N: Pitfall barriers, causing the vehicle to face a step-like obstruction]
- E01F15/00** **Safety arrangements for slowing, redirecting or stopping errant vehicles, e.g. guard posts or bollards; Arrangements for reducing damage to roadside structures due to vehicular impact (arrangements for fastening signs or signals to safety barriers or the like [E01F9/03](#); for forcibly arresting vehicles [E01F13/00](#); [N: guard barriers on road-bridges [E01D19/10B](#); fences in general [E04H17/00](#)])**

- E01F15/00A . [N: Individual devices arranged in spaced relationship, e.g. buffer bollards (spaced wall-type modules [E01F15/08](#))]
- E01F15/00F . [N: Lane control by movable lane separating barriers, e.g. shiftable barriers, retractable kerbs ([E01F15/12](#) takes precedence; by crossable lane separators [E01F9/093](#)); Apparatus or barriers specially adapted therefor, e.g. wheeled barriers (wall-type modules [E01F15/08](#))] [C9810]
- E01F15/02 . Continuous barriers extending along roads or between traffic lanes (crossable-lane separators [N: [E01F9/087](#)]) [C9509]
- E01F15/02B . . [N: Combinations of at least two of the barrier member types covered by [E01F15/04](#) to [E01F15/08](#), e.g. rolled steel section or plastic strip backed up by cable, safety kerb topped by rail barrier]
- E01F15/04 . . essentially made of longitudinal beams or rigid strips [N: supported above ground at spaced points ([E01F15/10](#), [E01F15/12](#) take precedence)] [C9509]
- E01F15/04B . . . [N: Metal rails ([E01F15/04D](#) and [E01F15/04F](#) take precedence)]
- E01F15/04B2 [N: with pivoting members]
- E01F15/04B4 [N: Details of rails ([E01F15/04B2](#) takes precedence)]
- E01F15/04B4B [N: with multiple superimposed members; Rails provided with skirts]
- E01F15/04B6 [N: Spacers between rails and posts, e.g. energy-absorbing means ([E01F15/04B2](#) takes precedence)]
- E01F15/04D . . . [N: Concrete rails ([E01F15/04K](#) takes precedence; safety kerbs or walls [E01F15/08](#))]
- E01F15/04F . . . [N: Rails of materials other than metal or concrete, e.g. wood, plastics; Rails of different materials, e.g. rubber-faced metal profiles, concrete-filled steel tubes ([E01F15/04K](#) takes precedence; reinforced concrete rails [E01F15/04D](#))]
- E01F15/04H . . . [N: Supports, e.g. posts (roadside posts in general [E01F9/011](#))] [C9810]
- E01F15/04H2 [N: Covers, e.g. of ground surface around the foot]
- E01F15/04K . . . [N: Foundations]
- E01F15/04M . . . [N: Installing; Repairing; Adjusting]
- E01F15/04P . . . [N: Provisions for guiding in combination with rails, e.g. tire-gutters]
- E01F15/06 . . essentially made of cables, nettings or the like ([E01F15/10](#), [E01F15/12](#) take precedence; protection against falling rocks [E01F7/04](#); arresting gear for aircraft [B64F1/02](#)) [C9509]
- E01F15/06B . . . [N: the barrier members being made of essentially non-metallic materials, e.g. naturel or synthetic fibres or webbing]
- E01F15/08 . . essentially made of walls or wall-like elements ([E01F15/10](#), [E01F15/12](#) take precedence); [N: Cable-linked blocks] [C9509]
- E01F15/08M . . . [N: characterised by the use of a specific material] [N1111]
- E01F15/08M2 [N: using concrete] [N1111]
- E01F15/08M4 [N: using metal] [N1111]
- E01F15/08M6 [N: using plastic, rubber or synthetic materials] [N1111]
- E01F15/08N . . . [N: Details of element connection] [N1111]
- E01F15/10 . . portable, e.g. for temporary use [N: not used] [N9509]
- E01F15/12 . . and having means for providing occasional passage, e.g. for emergency vehicles [N9509]
- E01F15/14 . . specially adapted for local protection, e.g. for bridge piers, for traffic islands [N9509] [C1111]

- E01F15/14B . . [N: for column or post protection] [N1111]
- E01F15/14C . . [N: Protecting devices located at the ends of barriers ([E01F15/14D](#) takes precedence)] [N1111]
- E01F15/14D . . [N: Means for vehicle stopping using impact energy absorbers] [N1111]
- E01F15/14D2 . . . [N: fixed arrangements] [N1111]
- E01F15/14D4 . . . [N: mobile arrangements] [N1111]