

ECLA**EUROPEAN CLASSIFICATION****E01D**

CONSTRUCTION OF BRIDGES, [N: ELEVATED ROADWAYS] OR VIADUCTS; ASSEMBLY OF BRIDGES (bridges extending between terminal buildings and aircraft for embarking or disembarking passengers [B64F1/305](#); [N: tracks for special kinds of railways [E01B25/00](#); culverts [E01F5/00B](#)])

E01D1/00

Bridges in general (characterised by their structural type [E01D4/00](#) to [E01D15/00](#))

E01D1/00C

. [N: Bowstring bridges (truss-type bowstring bridges [E01D6/02](#))] [N9410]

E01D2/00

Bridges characterised by the cross-section of their bearing spanning structure

E01D2/02

. of the I-girder type

E01D2/04

. of the box-girder type

E01D4/00

Arch-type bridges

E01D6/00

Truss-type bridges

E01D6/02

. of bowstring type

E01D11/00

Suspension or cable-stayed bridges

E01D11/02

. Suspension bridges

E01D11/04

. Cable-stayed bridges

E01D12/00

Bridges characterised by a combination of structures not covered as a whole by a single one of groups [E01D2/00](#) to [E01D11/00](#)

E01D15/00

Movable or portable bridges; Floating bridges

E01D15/00B

. [N: Movable bridges in general (floating bridges with sections movable to allow passing of water-borne traffic [E01D15/14D](#); lock gates [E02B7/20](#)); Constructional elements peculiar to movable bridges] [C9707]

E01D15/02

. Vertical lift bridges

E01D15/04

. Swing bridges

E01D15/06

. Bascule bridges; Roller bascule bridges, e.g. of Scherzer type

E01D15/08

. . Drawbridges

E01D15/10

. Travelling bridges [N: i.e. roller bridges]; Sliding bridges; Rotary cylinder bridges, i.e.

rotating about longitudinal axis to invert and raise the road

- E01D15/12 . Portable or sectional bridges ([floating bridges E01D15/14](#))
- E01D15/12C . . [N: Inflatable or unreelable bridges ([inflatable or unreelable girders in general E04C3/00B](#)); Bridges with main load-supporting structure consisting only of non-rigid elements, e.g. cables]
- E01D15/12D . . [N: Folding or telescopic bridges; Bridges built up from folding or telescopic sections ([E01D15/12C](#), [E01D15/127](#) take precedence; folding or telescopic girders in general [E04C3/00B](#))]
- E01D15/127 . . combined with ground-supported vehicles for the transport, handling or placing of such bridges or of sections thereof
- E01D15/133 . . built-up from readily separable standardised sections or elements, e.g. Bailey bridges ([E01D15/127](#) takes precedence)

- E01D15/14 . Floating bridges, e.g. pontoon bridges ([landing bridges E01D15/24](#); [floating bodies or pontoons B63B](#))
- E01D15/14D . . [N: displaceable or with sections movable to allow passing of water-borne traffic ([movable bridges actuated by floating bodies E01D15/00B](#) to [E01D15/10](#))]
- E01D15/20 . . collapsible, expandable, inflatable or the like [N: with main load supporting structure consisting only of non-rigid members] ([E01D15/22](#) takes precedence)
- E01D15/22 . . designed as, or mounted on, vehicles

- E01D15/24 . Bridges or similar structures, based on land or on a fixed structure and designed to give access to ships or other floating structures ([arrangement of ship-based ramps B63B27/14](#); [loading ramps B65G69/28](#))

- E01D18/00** **Bridges specially adapted for particular applications or functions not provided for elsewhere, e.g. aqueducts, bridges for supporting pipe-lines**

- E01D19/00** **Structural or constructional details of bridges**

- E01D19/00B . [N: Piers, trestles, bearings, expansion joints or parapets specially adapted for portable or sectional bridges] [N9502]
- E01D19/02 . Piers [N: ([E01D19/00B](#) takes precedence; [towers for suspension bridges E01D19/14](#)); Abutments ([foundations E02D](#)); [N: Protecting same against drifting ice ([against colliding vehicles E01F15/00](#))] [C9502]
- E01D19/04 . Bearings [N: ([E01D19/00B](#) takes precedence; specially for movable bridges [E01D15/00B](#) to [E01D15/10](#)); Hinges [C9502]
- E01D19/04B . . [N: Elastomeric bearings ([E01D19/04D](#) takes precedence)]
- E01D19/04C . . [N: Mechanical bearings ([E01D19/04D](#) takes precedence)]
- E01D19/04C2 . . . [N: Roller bearings]
- E01D19/04C3 . . . [N: Line and point rocker bearings]
- E01D19/04C4 . . . [N: Spherical bearings]
- E01D19/04C5 . . . [N: Pot bearings]
- E01D19/04D . . [N: Bearings being adjustable once installed; Bearings used in incremental launching]

- E01D19/06 . Arrangement, construction or bridging of expansion joints ([N: [E01D19/00B](#) takes precedence; in movable bridges [E01D15/00B](#) to [E01D15/10](#)]; sealing joints not restricted to expansion joints for bridges [E04B1/68](#)) [C9502]
- E01D19/06B . . [N: Joints having intermediate beams]
- E01D19/06C . . [N: Joints having sliding plates]
- E01D19/06D . . [N: Flat continuous joints cast in situ] [N0302]
- E01D19/08 . Damp-proof or other insulating layers; Drainage arrangements or devices [N: Bridge deck surfacings (bridge decks per se [E01D19/12B](#))]
- E01D19/08B . . [N: Waterproofing of bridge decks; Other insulations for bridges, e.g. thermal (insulation for buildings in general [E04B1/62](#)); Bridge deck surfacings (road surfacings in general [E01C](#))]
- E01D19/08C . . [N: Drainage arrangements or devices (surface drainage of roads in general [E01C11/22C](#); roof drainage [E04D13/04](#))]
- E01D19/10 . Railings; Protectors against smoke or gases, e.g. of locomotives; Maintenance travellers; Fastening of pipes or cables to bridges ([N: pipe-line bridges [E01D18/00](#)]; supports for pipes, cables or protective tubing, e.g. hangers, holders, clamps, cleats, clips, brackets, [F16L3/00](#))
- E01D19/10B . . [N: Parapets, railings ([E01D19/00B](#) takes precedence; balustrades in general [E04F11/18](#)); Guard barriers or road-bridges (in general [E01F15/00](#))] [C9502]
- E01D19/10C . . [N: Movable inspection or maintenance platforms, e.g. travelling scaffolding or vehicles specially designed to provide access to the undersides of bridges (lifting devices for movable platforms on vehicles in general [B66F11/04](#))]
- E01D19/12 . Grating or flooring for bridges; Fastening railway sleepers or tracks to bridges (sleepers [E01B3/00](#))
- E01D19/12B . . [N: Grating or flooring for bridges (waterproofing thereof [E01D19/08B](#); floors in general [E04B5/00](#))]
- E01D19/14 . Towers; Anchors; [N: Connection of cables to bridge parts]; Saddle supports [C9603]
- E01D19/16 . Suspension cables; Cable clamps for suspension cables; [N: Pre- or post-stressed cables] [C9603]
- E01D21/00 Methods or apparatus specially adapted for erecting or assembling bridges**
- E01D21/06 . by translational movement of the bridge or bridge sections [N: ([E01D15/127](#), [E01D15/133](#) and [E01D21/10](#) take precedence)] [C9605]
- E01D21/06B . . [N: Incremental launching] [N9605]
- E01D21/08 . by rotational movement of the bridge or bridge sections
- E01D21/10 . Cantilevered erection
- E01D21/10B . . [N: Balanced cantilevered erection] [N9605]
- E01D22/00 Methods or apparatus for repairing or strengthening existing bridges [N: (electrochemical desalination or re-alkalisation [C04B41/00](#)); Methods or apparatus for dismantling bridges] [C9605]**