

## E01D

**CONSTRUCTION OF BRIDGES, {ELEVATED ROADWAYS} OR VIADUCTS; ASSEMBLY OF BRIDGES (bridges extending between terminal buildings and aircraft for embarking or disembarking passengers [B64F 1/305](#); {tracks for special kinds of railways [E01B 25/00](#); culverts [E01F 5/005](#)})**

### Definition statement

*This place covers:*

Spanning structures, e.g. railway bridges, for allowing traffic, e.g. pedestrians, automobiles, trains, to travel across naturally occurring obstructions, e.g. gorges, bodies of water, or over man-made obstacles, e.g. roads, canals. Each spanning structure including obstruction or obstacle traversing structure that provides a passageway for traffic and links or is held up by:

- one or more supports supported by the surface of the earth, e.g. arch-type bridges with end supports, lift-type bridges with single main support, portable-type bridges with wheeled support; or
- one or more buoyant supports which contact a fluid type obstruction or obstacle being crossed, e.g. floating-type bridges with buoyant support.

Spanning structures used for purposes other than carrying traffic, e.g. aqueducts, that are structurally similar to spanning structures for traffic and traverse the same types of obstructions and obstacles.

Specially adapted components for use in spanning structures, e.g. suspension cable clamps.

Accessories or ancillary devices specially adapted for use with spanning structures. e.g. drawbridge gates that are actuated when the span moves.

Methods specially adapted for constructing spanning structures, e.g. specially adapted bridge erecting or assembling techniques.

Methods specially adapted for restoring damaged, e.g. replacing dilapidated decking, or structurally augmenting, e.g. strengthening existing component to allow increased traffic load, existing spanning structures.

Methods specially adapted for demolishing or dismantling spanning structures.

Apparatus specially adapted for constructing, restoring, augmenting, or demolishing spanning structures.

### References

#### Limiting references

*This place does not cover:*

Highways or trackways for toys that may include bridges	<a href="#">A63H 18/00</a>
Model railway bridges	<a href="#">A63H 19/34</a>
Arrangement of ship based onboard ramps or gangways	<a href="#">B63B 27/14</a>
Bridges extending between terminal buildings and aircraft for embarking or disembarking	<a href="#">B64F 1/305</a>
Loading ramps	<b><a href="#">B65G96/28</a></b>
Supports that may include structure for spanning a road and supporting electric lines or communication cable going to overhead road signs or traffic signals	<a href="#">E01F 9/696</a>
Floating tunnels or submerged bridge-like tunnels	<a href="#">E02D 29/067</a>
Laying or reclaiming pipes; Repairing or joining pipes on or under water	<a href="#">F16L 1/00</a>

Supports for pipes, cables or protective tubing	<a href="#">F16L 3/00</a>
Floating power or information cables	<a href="#">H01B 7/12</a>
Overhead installations of electric lines or cables	<a href="#">H02G 7/00</a>
Installations of electric cables or lines in or on the ground or water	<a href="#">H02G 9/00</a>
Installations of electric cables or lines in or upon bodies of water that are supported by floats	<a href="#">H02G 9/12</a>

### **Informative references**

Attention is drawn to the following places, which may be of interest for search:

Constructions in general and structures which are not restricted to walls	<a href="#">E04B 1/00</a>
Wrecking of buildings in general	<a href="#">E04G 23/08</a>
Towers, masts, poles and methods of erecting such structures	<a href="#">E04H 12/00</a>
Flexible rubber or plastic pipes that are buoyant	<a href="#">F16L 11/133</a>
Pipeline systems for gases, liquids or viscous products	<a href="#">F17D 1/00</a>
Demolition of tall structures	<a href="#">F42D 3/02</a>

### **Special rules of classification**

Relevant information with respect to the material constitution of bridges, i.e. wood, concrete, stone or stone-like, metal and plastic are additionally classified in [E01D 2101/00](#).

## **E01D 1/00**

### **Bridges in general (characterised by their structural type [E01D 4/00](#) - [E01D 15/00](#))**

#### **Definition statement**

*This place covers:*

Bridges not covered by any of the other types of bridges

#### **References**

##### **Limiting references**

*This place does not cover:*

Arch-type bridges	<a href="#">E01D 4/00</a>
Truss-type bridges	<a href="#">E01D 6/00</a>
Suspension or cable stay bridges	<a href="#">E01D 11/00</a>
Suspension ferries	<b>E01D13/00</b>
Movable or portable bridges	<a href="#">E01D 15/00</a>

## E01D 2/00

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

### Special rules of classification

Bridges having a cross section like e.g. I-beam, T-beam or boxgirder type. [E01D 4/00](#) - [E01D 15/00](#) take precedence.

## E01D 6/00

**Truss-type bridges**

### Definition statement

*This place covers:*

Bridge composed of connected elements (typically straight) which may be stressed from tension or compression.

### References

#### Limiting references

*This place does not cover:*

Portable bridges, like Bailey bridges	<a href="#">E01D 15/133</a>
---------------------------------------	-----------------------------

## E01D 11/00

**Suspension or cable-stayed bridges**

### Definition statement

*This place covers:*

Bridges where the deck is supported by cables.

## E01D 12/00

**Bridges characterised by a combination of structures not covered as a whole by a single one of groups [E01D 2/00](#) - [E01D 11/00](#)**

### Relationships with other classification places

This group is not used.

## E01D 15/00

**Movable or portable bridges; Floating bridges**

### Definition statement

*This place covers:*

Movable bridges for allowing passing of (waterborne) traffic, e.g. lift, swing, travelling or bascule bridges. Portable bridges being mainly temporary or military bridges.

## References

### Limiting references

*This place does not cover:*

Arrangement of ship-based outboard ramps or gangways	<a href="#">B63B 27/14</a>
Loading ramps in general	<a href="#">B65G 69/28</a>

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Floating bodies or pontoons	<a href="#">B63B</a>
Inflatable or unreelable girders; folding or telescopic girders	<a href="#">E04C 3/005</a>

## E01D 19/00

### Structural or constructional details of bridges

#### Definition statement

*This place covers:*

Constructional details not necessarily related to types of bridges.

## References

### Limiting references

*This place does not cover:*

Road joints	<a href="#">E01C 11/04- E01C 11/10</a>
Protection of piers against colliding vehicles	<a href="#">E01F 15/00</a>
Foundations	<a href="#">E02D</a>
Sealing joints not restricted to joints for bridges; expansion joints for buildings in general	<a href="#">E04B 1/68</a>

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Sleepers in general	<a href="#">E01B 3/00</a>
Guards barriers in general	<a href="#">E01F 15/00</a>
Insulation for buildings in general	<a href="#">E04B 1/62</a>
Flooring in general	<a href="#">E04B 5/00</a>
Roof drainage	<a href="#">E04D 13/04</a>

**E01D 21/00****Methods or apparatus specially adapted for erecting or assembling bridges****Definition statement**

*This place covers:*

Methods or apparatus specially adapted for erecting or assembling bridges

**References****Limiting references**

*This place does not cover:*

Assembling, placing or erecting temporary bridges	<a href="#">E01D 15/127</a> , <a href="#">E01D 15/133</a>
---	--

**E01D 22/00****Methods or apparatus for repairing or strengthening existing bridges  
{(electrochemical desalination or re-alkalisation [C04B 41/00](#)); Methods or  
apparatus for dismantling bridges}****Definition statement**

*This place covers:*

Repairing, strengthening or dismantling bridges.

**References****Limiting references**

*This place does not cover:*

Electrochemical desalination or re-alkalisation	<a href="#">C04B 41/00</a>
---	----------------------------

**Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Repairing buildings in general	<a href="#">E04G 23/00</a>
--------------------------------	----------------------------