

# Uniclass fact sheet: request for feedback

## Expert advice

If the Uniclass team does not have the correct expertise to respond to an industry request for new codes, they will consult with experts to provide the context and advice needed for the correct decisions to be made.

Here, we list any requests for expert input to assist with continuing to improve and develop the Uniclass tables.

## Dams

The Uniclass team have been asked by an organization designing a new dam in Australia for more codes to help with modelling it. They have already carried out some research and worked with the engineer, and have proposed some new codes for addition to the Complexes, Entities and Spaces/ location tables.

They would welcome feedback and input from anyone involved in building or managing a dam structure to ensure they are applying new codes appropriately.

## Possible additions for dams

### Current Systems table

There are some entries in the existing Systems table; these have been discussed, and it has been decided that they are probably incorrect. The Uniclass team would like to move this detail to the Complexes table, which is the highest level of detail.

Ss\_25\_17 Dam and levee structure systems

Ss\_25\_17\_05 Arch dam systems

Ss\_25\_17\_10 Buttress dam systems

Ss\_25\_17\_25 Embankment dam and levee systems

Ss\_25\_17\_35 Gravity dam systems

If they're moved to the Complexes table, should they all be included into the group for 'Co\_32\_85 Water control and retaining complexes' or just a heading for Dams? Alternatively should a new group be introduced, or a level one heading for dams and list them there?

### Complexes table - Alternative one

*Note: proposed new codes highlighted in yellow.*

Co\_32\_85 Water control and retaining complexes

Co\_32\_85\_05 Arch dams

Co\_32\_85\_10 Buttress dams

Co\_32\_85\_26 Earth dams

Co\_32\_85\_28 Embankment dams and levees

Co\_32\_85\_35 Gravity dams

- Co\_32\_85\_50 Lock complexes
- Co\_32\_85\_70 Reservoirs
- Co\_32\_85\_73 Rock-fill dams
- Co\_32\_85\_88 Tidal barriers
- Co\_32\_85\_96 Water control complexes
- Co\_32\_85\_97 Water level and flow monitoring complexes
- Co\_32\_85\_98 Water pumping complexes

### Complexes table - Alternative two

#### Co\_32\_15 Dams

- Co\_32\_15\_05 Arch dams
- Co\_32\_15\_10 Buttress dams
- Co\_32\_15\_26 Earth dams
- Co\_32\_85\_28 Embankment dams and levees
- Co\_32\_15\_35 Gravity dams
- Co\_32\_15\_73 Rock-fill dams

Within the Co, En and SL tables, the Uniclass team follow the rules for congruency to ensure that classifications can be found in their equivalent group in each table. Therefore new codes would be added to the Entities table and Spaces/ location table to match what is in the Complexes table.

One of the components of a dam is a spillway and this is already included in the subgroups En\_32\_85 and SL\_32\_85. If a new subgroup for Dams is created in the Complexes table, these will need to move in the other tables.

In order to avoid this, the Uniclass team feel alternative one is more appropriate. The additions to the En and SL tables would then follow.

### Entities table

#### En\_32\_85 Water control and retaining entities

- En\_32\_85\_06 Barrier beaches
- En\_32\_85\_10 Breakwaters
- En\_32\_85\_15 Control gates
- En\_32\_85\_19 Dam cut-off walls
- Dams moved to Complexes table*
- En\_32\_85\_22 Dam discharge conduits
- En\_32\_85\_23 Debris screens
- En\_32\_85\_24 Dolphins
- En\_32\_85\_25 Draw-off towers
- En\_32\_85\_26 Drop inlet works
- En\_32\_85\_27 Emergency spillways
- En\_32\_85\_30 Flood prevention structures
- En\_32\_85\_31 Flumes

En\_32\_85\_35 Groynes  
En\_32\_85\_45 Levees  
En\_32\_85\_57 Outlet channel  
En\_32\_85\_58 Outlet works  
En\_32\_85\_59 Outfalls  
En\_32\_85\_72 Revetments  
En\_32\_85\_75 Sand traps  
En\_32\_85\_77 Sea dikes  
En\_32\_85\_80 Sluices  
En\_32\_85\_82 Spillways  
En\_32\_85\_84 Stilling basins  
En\_32\_85\_85 Spillway gates  
En\_32\_85\_88 Toe drains  
En\_32\_85\_96 Water-retaining walls  
En\_32\_85\_97 Weirs  
En\_32\_85\_98 Wells

### **Spaces/ location table**

SL\_32\_85 Water control and retaining spaces

SL\_32\_85\_06 Barrier beach faces  
SL\_32\_85\_10 Breakwater faces  
SL\_32\_85\_15 Control gate sills  
SL\_32\_85\_21 Dam crests  
SL\_32\_85\_22 Dam faces  
SL\_32\_85\_23 Dam heels  
SL\_32\_85\_24 Dam toes  
SL\_32\_85\_30 Fishtails  
SL\_32\_85\_35 Groyne faces  
SL\_32\_85\_42 Intake towers  
SL\_32\_85\_60 Paddles and rymers  
SL\_32\_85\_65 Preliminary weirs  
SL\_32\_85\_70 Roundheads  
SL\_32\_85\_81 Spillway crests  
SL\_32\_85\_82 Spillway funnels  
SL\_32\_85\_83 Spillway faces  
SL\_32\_85\_84 Stilling wells  
SL\_32\_85\_94 Vortex flow control structures  
SL\_32\_85\_95 Water-retaining wall cores  
SL\_32\_85\_96 Water-retaining wall faces  
SL\_32\_85\_97 Water-retaining wall toes

SL\_32\_85\_98 Weir faces

The Uniclass Team also propose adding a new code for the inspection galleries, but these will be added to the group for common entities as they occur in other industries.

En\_90\_10\_42 Inspection galleries

## Find out more

Further information:

- Search the Uniclass tables: <https://uniclass.thenbs.com/>
- Download the tables: <https://uniclass.thenbs.com/download>
- Support and contact us: <https://uniclass.thenbs.com/feedback>
- Find out more about Uniclass: <https://uniclass.thenbs.com/about>
- In-depth information, case studies, and how to use Uniclass: <https://www.thenbs.com/knowledge/uniclass>