# How to encode cranes stand on constructions that are partly or completely above water

General Discussions

**ReneVisser**
Mar 3

Some cranes stand on constructions that are partly or completely above water. An example can be found at

https://www.google.com/maps/place/Bergen+op+Zoom/@51.5044843,4.2624696,171m/data=!3m1!1e3!4m5!3m4!1s0x47c413332081048f:0x1dd39c8b40e3b686!8m2!3d51.4945758!4d4.2871622[1]

There does not seem to be a valid way of encoding these. According to validation check 54, CRANES/cranes objects must stand on one of LNDARE, bridge, FLODOC, flodoc, PONTON or ponton. This structure does not float (so eliminating the last four options), is not completely over land, and to call it a bridge seems very dubious. And if one were to here encode a LNDARE, a shore-line construction is then needed: what category would one use?

The Encoding Guide section G.3.4 states that cranes which extend over navigable water must be encoded – but there must then be a valid way of doing this.

BR René

**johannes.nemeth**
Mar 4
Dear Rene,

in Austria we solved this with the encoding of LNDARE for the same geometry as the terminal with the cranes if we know that this area is not suitable for navigation, as in your example. And for cranes (e.g. at the locks) over the navigation waterway area the validation check 54 only says a warning, not an error.

So CRANES/cranes should be covered by e.g. LNDARE or ponton but it doesn't have to be.

Br,
Johannes

**johannes.nemeth**
Mar 4
In case of LNDARE, for the shoreline construction we encode CATSLC 6 (wharf) and WATLEV = 2 (always dry).
BR, Johannes