

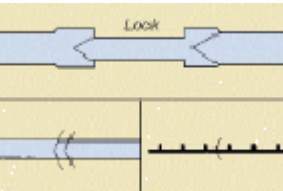
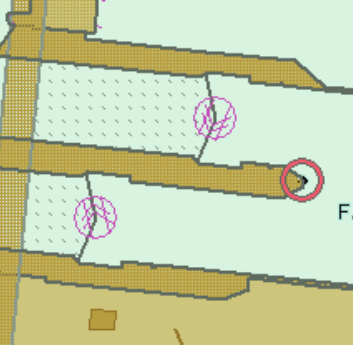


## G.4 Locks, Barrages, Exceptional Navigational Structures

### G.4.5 Lock Gate (M)

Structure swung, drawn, or raised/lowered to hold or release water in a lock.

Graphics	Encoding Instructions	Object Encoding
<p><i>Real World</i></p>  <p><i>Real World (EU: lift door limiting air draught of vessel)</i></p>  <p><i>Chart Symbol</i></p>  <p><i>IENC Symbolization</i></p> 	<p>A) All lock gates must be encoded.</p> <p>B) Linear GATCON features should follow the edge of DEPARE that defines the lock chamber. Area GATCON features have to be placed on a depth area.</p> <p>C) EU: Use gatcon with attribute 'verdat' only if vertical datum differs: -from DSPM VDAT subfield and -from Meta object 'm_vdat' attribute and specific for inland navigation or in case of a lifting lock door that restricts the air draught</p> <p>D) VERCLR has to be encoded in case of a lifting lock door that restricts the air draught of passing vessels.</p> <p>E) A bridge over a lock door needs to be encoded separately with a bridge object (see G.1)</p> <p>F) 'wtwdis' and 'hunits' shall be encoded if the attribute VERCLR is used.</p> <p>G) This feature could be aggregated to a lock basin by a C_AGGR object.</p>	<p><b>Object Encoding</b></p> <p><b>Object Class = GATCON(L,A)</b></p> <p>(M) CATGAT = [4 (lock gate)]</p> <p>(M) HORCLR = [xx.x] (metres), e.g., 34.2</p> <p>(C) VERCLR = [xx.xx] (metres), e.g., 13.27</p> <p>(O) CONDTN = [1 (under construction), 2 (ruined), 3 (under reclamation), 5 (planned construction)]</p> <p>(M) SCAMIN = [22000]</p> <p>(C) SORDAT = [YYYYMMDD]</p> <p>(C) SORIND = (Refer to Section B, General Guidance)</p> <p><b>Object Encoding</b></p> <p><b>Object Class = gatcon(L,A)</b></p> <p>(M) CATGAT = [4 (lock gate)]</p> <p>(M) HORCLR = [xx.x] (metres), e.g., 34.2</p> <p>(O) VERCLR = [xx.xx] (metres), e.g., 13.27</p> <p>(O) verdat = [12 (Mean lower low water), 31 (Local low water reference level), 32 (Local high water reference level), 33 (Local mean water reference level), 34 (Equivalent height of water (German GIW)), 35 (Highest Shipping Height of Water (German HSW)), 36 (Reference low water level according to Danube Commission), 37 (Highest shipping height of water according to Danube Commission), 38 (Dutch river low water reference level (OLR)), 39 (Russian project water level), 40 (Russian normal backwater level), 41 (Ohio River Datum)]</p> <p>(C) wtwdis = (Refer to letter F)</p> <p>(C) hunits = (Refer to letter F)</p> <p>(O) CONDTN = [1 (under construction), 2 (ruined), 3 (under reclamation), 5 (planned construction)]</p> <p>(M) SCAMIN = [22000]</p> <p>(C) SORDAT = [YYYYMMDD]</p> <p>(C) SORIND = (Refer to Section B, General Guidance)</p>