

The Lock gates are of the solid, built up, timber type, constructed of British Columbia fir and Southern oak. A number of  $2\frac{1}{2}$ -inch vertical bolts run through from top to bottom and in addition each frame is dowelled with oak pins, and cast iron wedge blocks are inserted between each timber.

The gates are further reinforced by built-in girders to resist shock from vessels. Each leaf of the upper gates weighs 90 tons, and each leaf of the lower gates weighs 65 tons.

The gates are stepped on gun metal pivots and are anchored to the masonry by anchor bars imbedded in the concrete.

The gates mitre on 18 inch by 18 inch by 26 feet long oak sills, bolted to the concrete by 7 feet long anchor rods.

In the event of its being found necessary to unwater the Lock to effect repairs, this can be done by putting in stop logs at the upper and lower end of the extension walls, special provision having been made for this purpose by putting in checks in the masonry.

The guide piers at the lower entrance to the Lock are concrete walls of a gravity section, built on prepared rock surface, the west pier being 353 feet, and the east 43 feet in length.

The guide piers at the upper entrance are of a reinforced concrete type with spread base. These piers are built on closely cemented gravel and boulders and are 27 feet in height.