



Steelwork constructions Mitred gates, two-winged

Lock Gates made of steel are often used in flood protection because of their robustness and long service life. The sophisticated mitred lock gates by IBS optimally meet the demands concerning impermeability, welding workmanship, ability to adapt to varying surfaces of adjoining concrete structures on site as well as easy handling.

Ideal applications for mitred lock gates in the openings of permanent protection barriers are dyke openings, passages in sheet pile or concrete walls. In most cases, the gates are designed individually based on specific on site demands such as statics, operation and geometry. Twowinged lock gates can be constructed economically for widths of approximately 3.0 to 8.0 m.



Water side view



Water pressure test



Impermeability is achieved by tensioning



Connection at abutment and seal

The mitred lock gates manufactured by IBS are fixed and pivot-mounted on the outer wing edges.

If necessary, the wings can be effortlessly moved and tensioned horizontally by hand.

This compresses the profile seals and activates the sealing effect. The tightly installed bottom plate and the vertical sheets made out of stainless steel serve as a dead stop.

With this nearly smooth contact area, the seals rest evenly across the entire length and close the joints to the concrete abutment.

This meets the demands of impermeability class 5 in accordance with DIN 19569-4.

For passages, the bottom seal can be designed as a ramp (sill) or alternatively can be fitted with a step in case flow-throughs are concern.



Land side view



Open gate



Wings closed and sealed



Bottom sill acts as horizontal wing support in passages