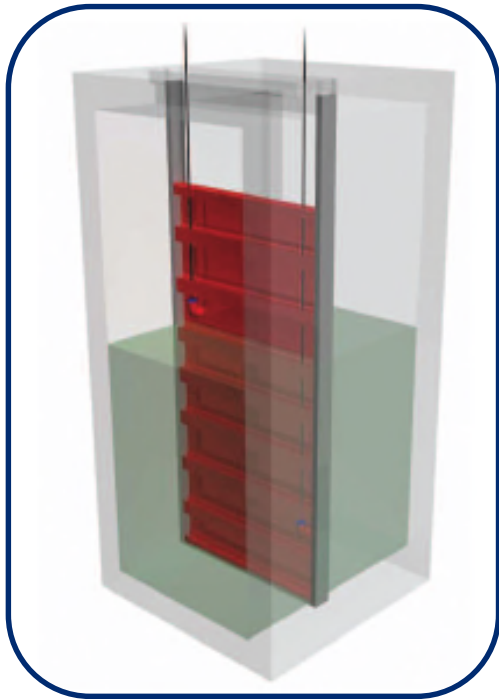


# STOP-LOG / STOP-GATE



## PURPOSE

- ◆ Stoplogs are used to shut off screen pits for dewatering
- ◆ They are normally lifted with equal levels upstream and downstream

## DESCRIPTION

- ◆ The stoplog system consists of a grouted metallic wall guide in which slides a fabricated metal door
- ◆ The guide is made of two vertical channel guides, a top and a bottom sill set with jack screws and grouted into slots in the civil structure
- ◆ The stoplog itself is a fabricated door with a thick back plate, stiffening beams and side members. A keynote seal is fitted on all sides and secured with stainless steel fittings. They apply against the smooth surface of the guides for perfect sealing
- ◆ One or more level-equalizing valves are provided (actuated from the deck)
- ◆ When the stoplog aperture is high, the stoplog is made of a number of sections, set one above the other
- ◆ The stoplogs can be provided with a guide scraper to remove adherent growth in the guides

## ADVANTAGES

- ◆ Very economical
- ◆ Very safe (200% safety coefficient)
- ◆ Long-lasting
- ◆ Easy to handle
- ◆ Very low leakage rate (less than 2 l/min/meter of seal)
- ◆ On special request, can be designed for 0.2 l/min/meter of seal (DIN 19569-4 or AWWA C561)

## HANDLING

- ◆ There are three types of lifting methods:
  - ◇ Using a crane hooked to the lift chain or the self-engaging lift beam.
  - ◇ When there is a small level differential between front and back levels, mechanical or hydraulic jacks can be provided.
  - ◇ If the gate is to be lifted with a high-level differential between upstream and downstream levels, side rollers and an adequately-sized lifting device are installed. The guides are then of a much heavier gauge



## SEALING AND SAFETY

- ◆ 2 sealing layouts are possible:
  - ◇ 3-side sealing – top of the aperture higher than high-water level
  - ◇ 4-side sealing – top of the aperture below high-water level
- ◆ In many countries, regulations or by-laws require that for safety purposes, two sets of stoplogs installed in series with their corresponding guides are required



## MATERIALS

- ◆ Door: carbon steel is usual, stainless steel on special request.
- ◆ Guides and stoplog fittings:
  - ◇ AISI 304L for fresh-water applications
  - ◇ AISI 316L, duplex or super-duplex stainless steels for salt-water applications
- ◆ Sacrificial anodes: aluminum alloy

## SIZES AND DATA

- ◆ Standard widths up to 6 m. Larger stoplogs are available on special order.
- ◆ Any height can be supplied using multiple elements.
- ◆ We can custom-design anything to meet your needs