POTENTIAL ENGINEERING

Global Leader and Your Partner in
Water Pollutant Removal Systems

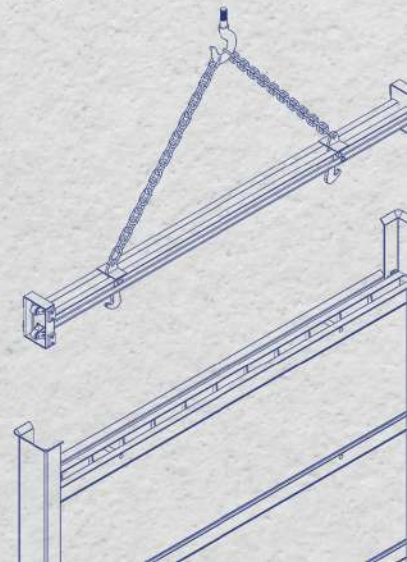
STOPLOG GATES

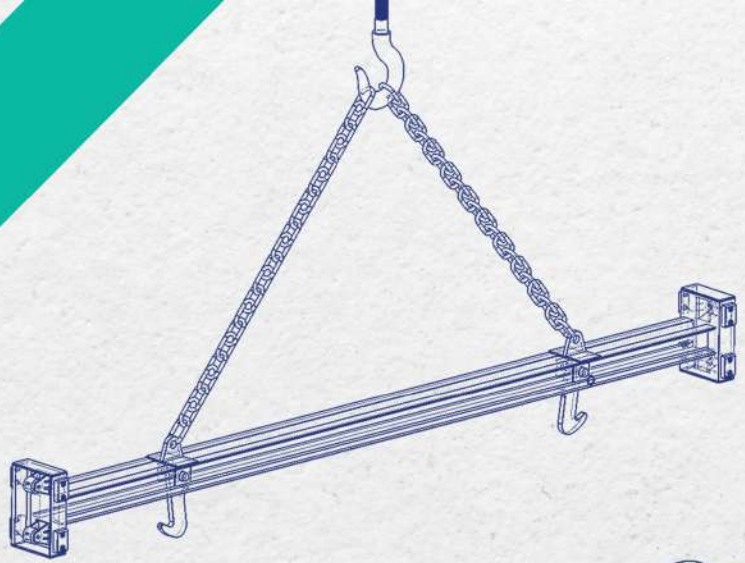
A Water Control Gate Product

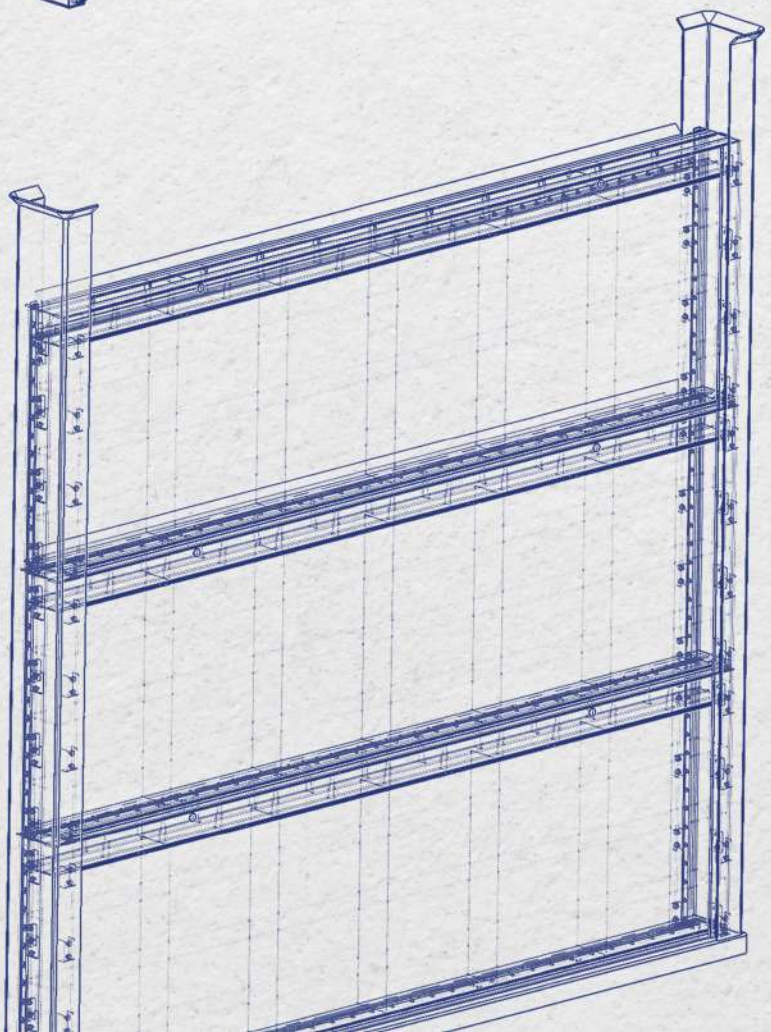
STOPLOG GATES

The Stoplog gate represents a sophisticated engineering solution available in both single-piece and multi-piece configurations, meticulously designed for the purpose of fluid isolation in a myriad of sectors such as water treatment, sewage systems, power generation, irrigation, and industrial plants. Tailored for seamless insertion into intricately crafted slots or grooves along channel walls, these apparatuses are elevated and lowered with precision, either manually or through the utilization of sophisticated overhead or mobile cranes.

Potential Engineering's stoplogs function as versatile barriers, exerting precise control over channel flow in crucial domains such as sewage treatment, irrigation, industries, flood control, and hydropower projects. These temporary yet indispensable tools effectively suspend the inflow of water, facilitating plant maintenance with finesse across diverse industries. With their adept governance over fluid dynamics, these devices assume a pivotal role in orchestrating and optimizing various water-related operations, thereby ensuring not only efficient maintenance but also the streamlined management of complex systems.







ABOUT PROBLEM

High Leakage

Leakage in the Stoplog Gate is acceptable upto a limit above that its a problem. Leakage commonly happens through improper sealed surface

More Frictional Losses

Since Stoplog Gates have many rubbing components there are high friction forces in addition to the the barrier weight

Difficulty in Installation

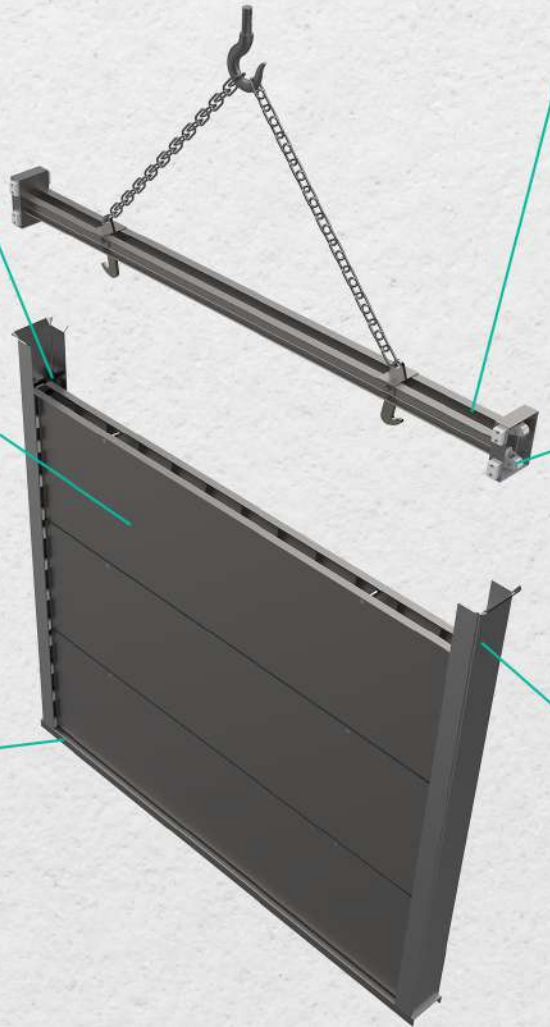
Due to its large sizes and proper placement requirement, installation of the gates can sometimes be difficult and time consuming

Varying Channel Dimensions

Non-Standardized and Non-Modular design restricts the interchangeability of parts between different gates of same opening size

OUR SOLUTION

- Customizable fabricated gates suit to any opening size
- Special musical note type Side-Seal and bottom Lip-Seal for
- Complete parameter sealing option available
- Modular stoplog design, providing interchangeability between same width channels
- Single direction and Bi-direction sealing options available
- Use of UHWMPE as Guide (less coefficient of friction material)
- Customizable fabricated gates suit to any opening size



Seal

Seals are securely fixed along panel sides and bottom, form a complete seal around the waterway channel and between each stop log panel.

Lifting Beam

Featuring a gravity-engage and lanyard-release system, this versatile stop log lifting beam, with non-metallic guiding wheels, offers adjustable width for seamless panel handling, including a robust center lifting eye and durable polyethylene lanyard-release rope for superior usability.

Stop log Panel

Stop log panels constructed by securely welding multiple extrusions, joined with watertight EPDM seals, featuring two stainless steel hooks for lifting beam engagement, a mill finish surface, inclusive of adequate drainage, and furnished with UHMWPE spacers to prevent metal-to-metal contact during insertion and removal.

Guide Wheels

UHWMPE, Phenolic or polyolefin guide wheels assist the lifting beam for seamless stop log panel lifting by ensuring smooth slot guidance during operations.

Sill

The adjustable stainless steel plate sill guarantees a level seal pre-grouting, showcasing a sleek mill finish. Additionally, an adaptable option includes a flat concrete invert surface for alternative use.

Slot Frame

One-piece fabricated slots, adaptable for embedding or mounting on channel walls, with a sleek mill finish surface. These have tapered top for proper stoplog entry

TYPES OF STOPLOG GATES

High Head Stoplog Gates

Fabricated from robust steel or stainless steel materials, high head stoplog gates are meticulously designed for flawless integration into grooved channels. Their ingenious incorporation of lifting lugs allows for effortless lifting using either overhead or mobile cranes. The precision-lined steel or stainless steel grooves ensure a seamless fit with rubber seals, guaranteeing an impeccable seal.Their versatile sill surface, available as a flat concrete slab or an embedded sill plate, caters to diverse applications, effectively isolating equipment like pumps, screens, and service gates. Equipped with specialized lintel seals for taller head sealing, these gates boast hydrostatically energized rubber seals, ensuring exceptional one-way sealing capability.

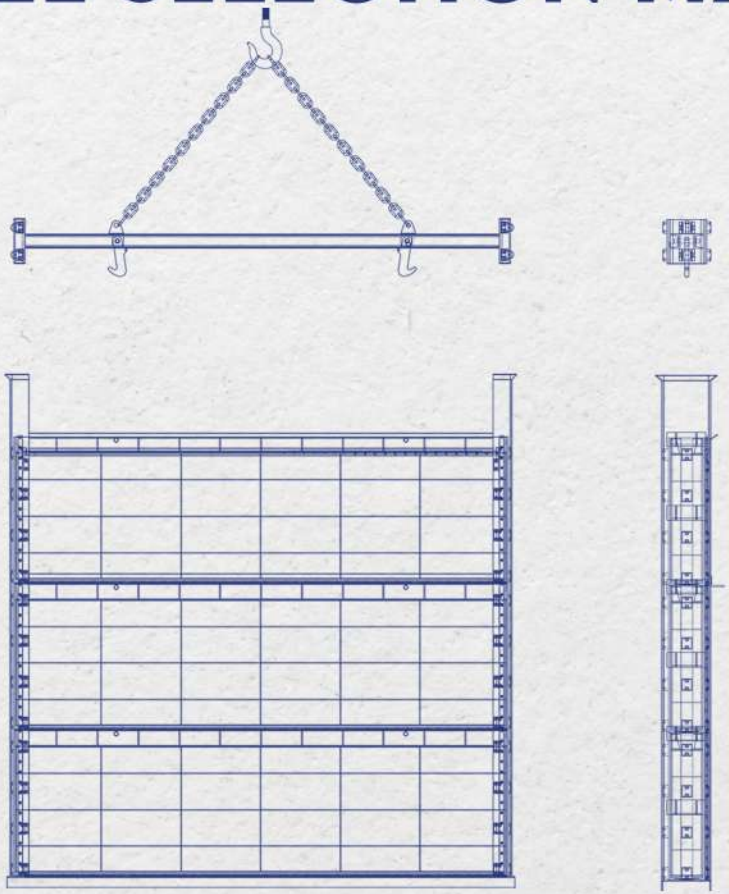
Designed to sustain water head upto 20m

Low Head Stoplog Gates

Designed for low-flow, low head conditions with small channel sizes. These logs guarantee directional sealing, emphasizing downstream rubber seal placement for optimal and efficient functionality.Low head stop logs are ineffective in high-flow & high water head conditions. Despite limitations in high-flow settings, their adaptability in controlled low-flow or specific overflow situations highlights their practicality. Although stacked setups may pose leakage concerns, their utility in equipment isolation proves valuable for specific low-head water control scenarios.Smaller channel low-head gates are light weighted can be operated manually by single person, larger size gates are operated by lifting beam

Designed to sustain water head upto 10m

MODEL SELECTION MATRIX



OPENING SIZES	upto 3500mm x 3500mm
HEAD RANGE	upto 20mtrs
FRAME SIZE	opening size + 300mm(min)
MOC	Mild steel / Aluminium / Stainless steel etc
STANDARD	IS 5620 , IS 9349 , IS 4622
OPERATION	Manual / Overhead Crane / Mobile Crane

Potential Engineering
Plot No- B-45, MIDC Rd, behind Reliable Cloud City, Digha Naka,
Yadav Nagar, TTC Industrial Area, Airoli, Navi Mumbai - 400708,
Maharashtra

sales@potential.net.in
www.potentialengineering.com
+91 8591948730 / +90 8104984831 / +91 8104984832