


Fontaine
SERIES 95
STOP LOGS

Low leakage rate
Installation in new or existing channel
Sealing system completely mounted on log

General Description

The Fontaine SERIES 95 Stop Logs are an easy and economical way to control flow in a channel. Their lightweight construction makes them easy to handle and the UHMWPE (ultra high molecular weight polyethylene) guide eliminates all metal-to-metal contact between the slide and frame, thereby allowing the logs to slide up and down with minimal friction.

Stainless Steel Construction

Because of its stainless steel construction, the SERIES 95 has high corrosion and erosion resistance, and can be operated many years with minimum maintenance. Stainless steel allows design flexibility and strength.

Reinforced Log

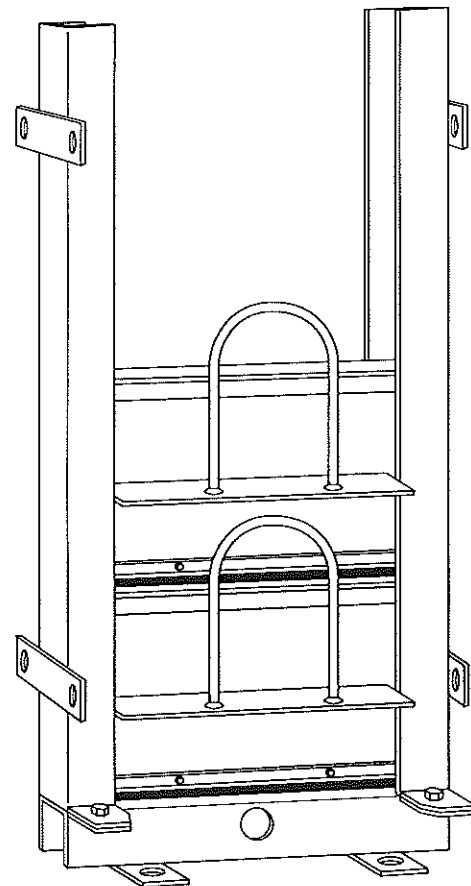
The log consists of a stainless steel plate reinforced with horizontal members welded to the plate making it a solid one-piece log.

Stainless Steel Frame

The stainless steel frame on the SERIES 95 is a stainless steel channel designed to be embedded in a channel (FE) (Figure 95-01) or to be anchored on the surface of an existing channel (EC) (Figure 95-02). The sill can be flush bottom or located on the surface of the channel. The frame can also be mounted on a concrete wall (CW) (Figure 95-03).

UHMWPE Guides and EPDM Seals

The seals on the SERIES 95 are installed on the log. The UHMWPE guide is on the side of the log and holds the EPDM seal. The log is sealed at all times even with a small water head behind it. The bottom seal is made of a soft piece of EPDM that seals on the sill or on top of another log. All logs are manufactured to be interchangeable.



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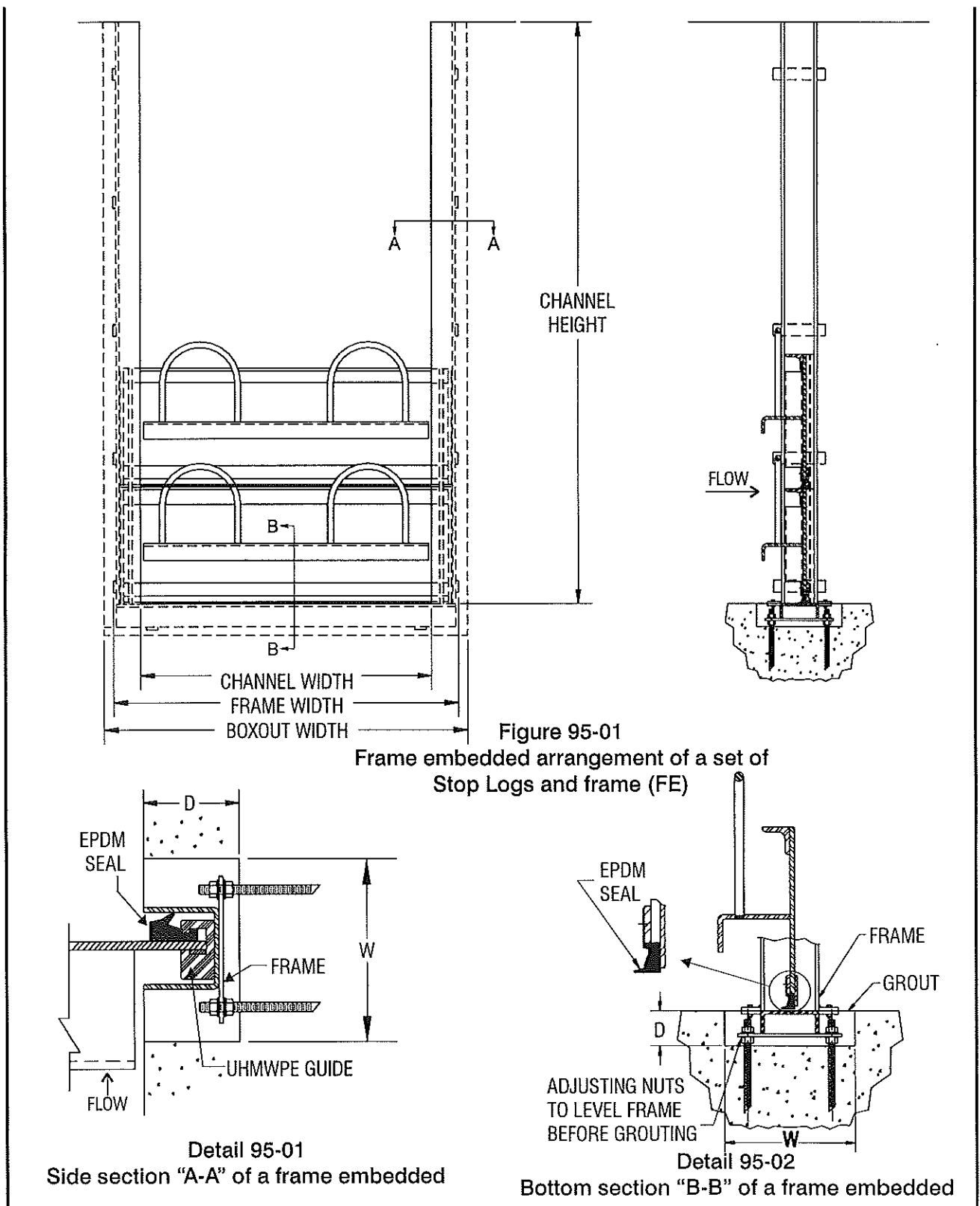


Figure 95-01

Frame embedded arrangement of a set of Stop Logs and frame (FE)

Detail 95-01

Side section "A-A" of a frame embedded

Detail 95-02

Bottom section "B-B" of a frame embedded

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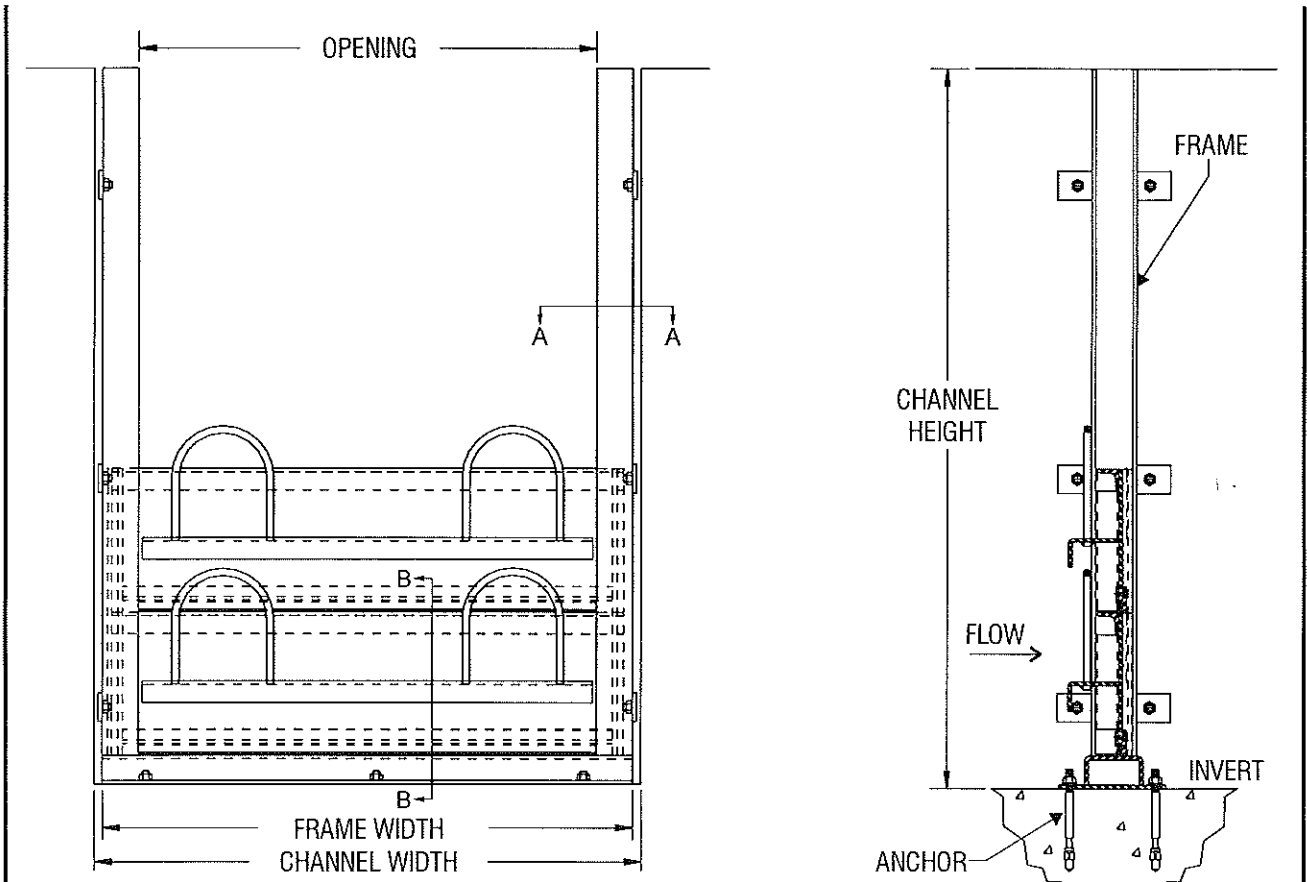
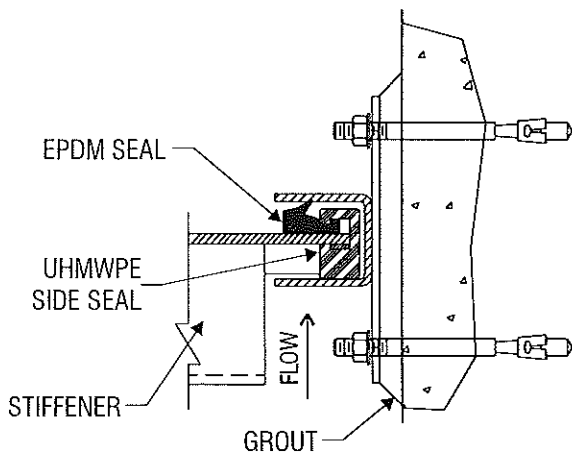
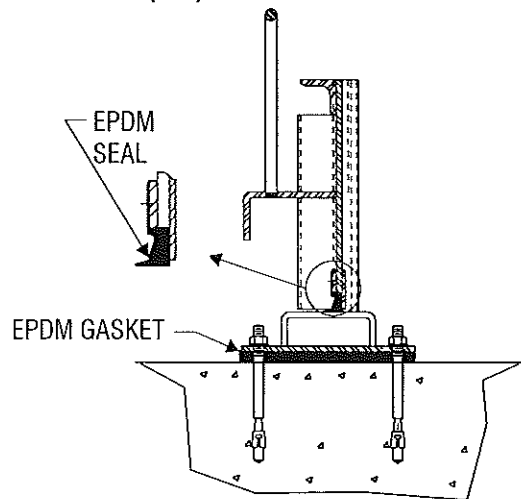


Figure 95-02
Channel mounted arrangement of a
Stop logs and frame (EC)



Detail 95-03
Side section "A-A" of frame in channel



Detail 95-04
Bottom section "B-B" of a frame in channel

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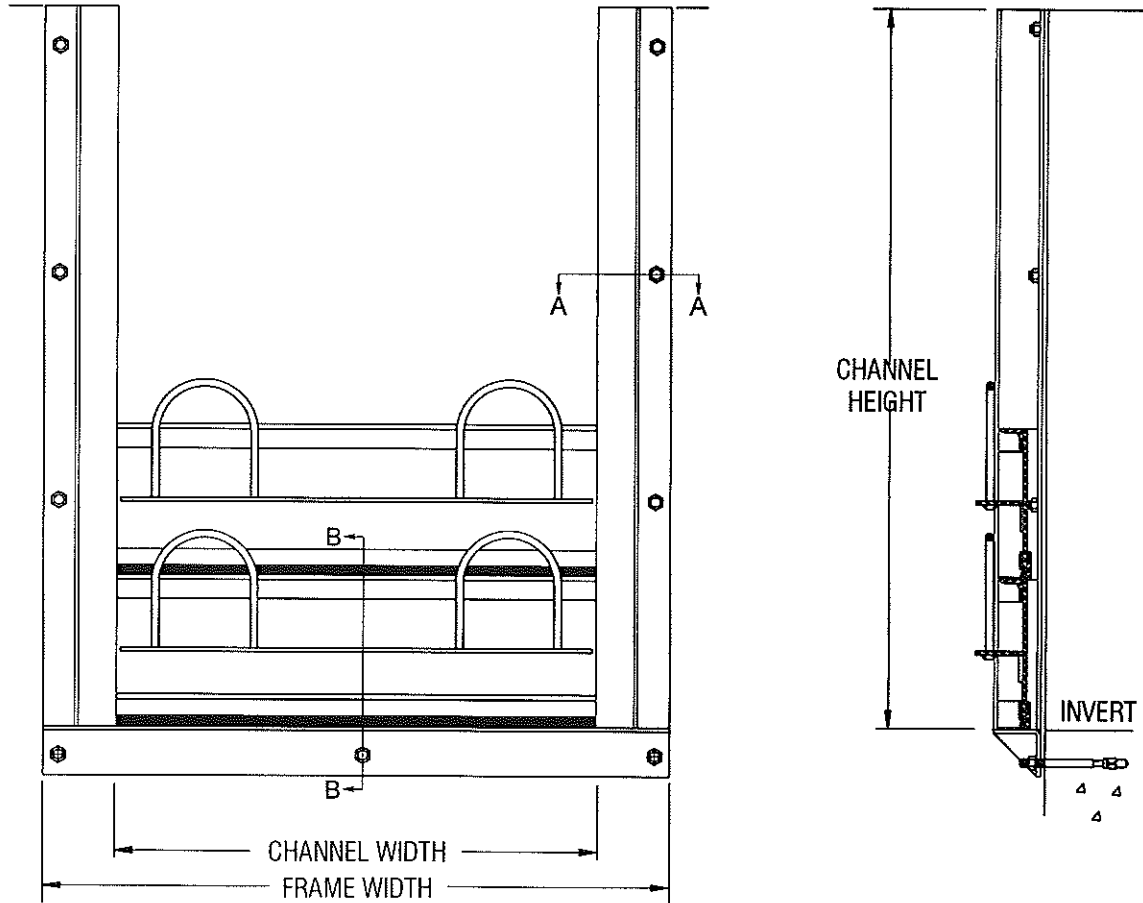
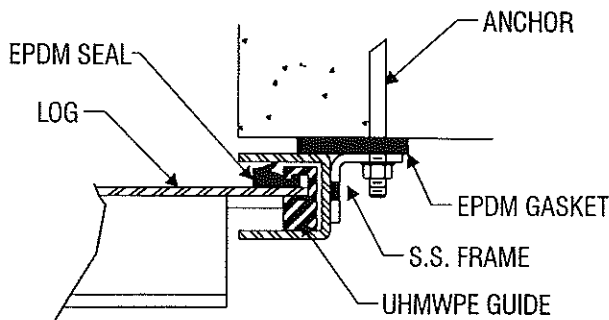
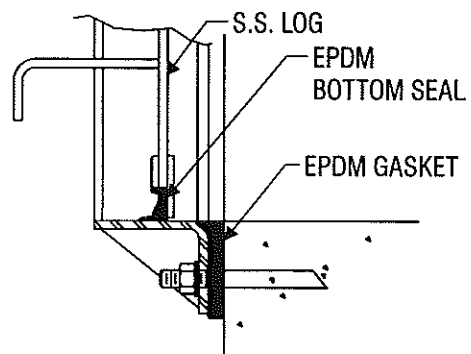


Figure 95-03
Wall mounted arrangement of a set
of stop logs and frame (CW)



Detail 95-05
Side section "A-A" of a wall mounted



Detail 95-06
Bottom section "B-B" of a wall mounted

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Stainless Steel Lifting Device

Also available is a lifting device to reach the logs at a lower elevation. The lifting device is fabricated in stainless steel and is adjusted to fit inf the stop log's frame.

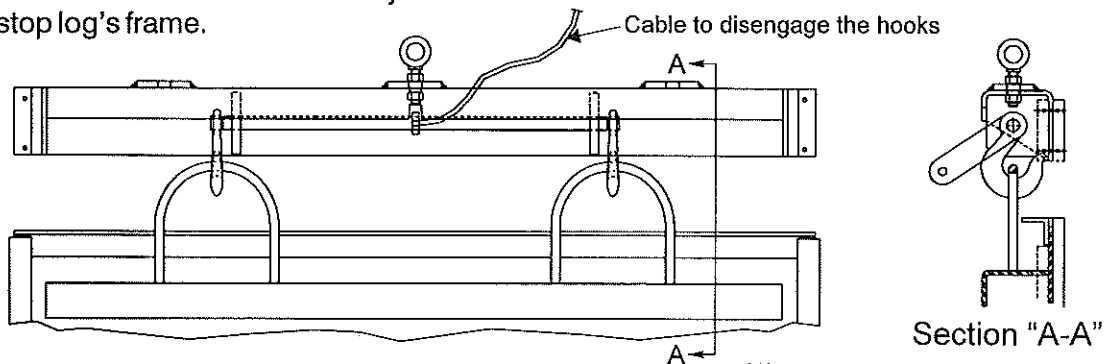


Figure 95-04

Dimensional Chart*

Frame width	
Frame embedded	Channel width + 5 1/2" (140 mm)
Existing channel	Channel width - approx. 1" (25 mm)
Wall mounted	Channel width + 8" (203 mm)

Log width	
Frame embedded	Channel width + 4 1/4" (108 mm)
Existing channel	Frame width - 1 1/4" (32 mm)

Log width (inches / mm)	Max Log thickness (inches / mm)
0 - 84	4,5
0 - 2134	115
85 - 102	5,5
2159 - 2591	140
103 - 120	6,5
2617 - 3048	165

Concrete box-out minimum dimensions W x D		
Size	Channel less than 84" (2134 mm) wide	Channel equal to or more than 84" (2134 mm) wide
Bottom =	8 1/4" (210 mm) wide x 3 1/4" (83 mm) deep	9 1/4" (235 mm) wide x 3 1/4" (83 mm) deep
Sides =	8 1/4" (210 mm) wide x 3 3/4" (95 mm) deep	9 1/4" (235 mm) wide x 3 3/4" (95 mm) deep

(*) These dimensions are for information only. Do not use for installation or submittal purposes.



Typical Specifications

1. GENERAL CONDITIONS

1.1. SCOPE. This section covers Stainless Steel Stop Logs.

1.2. GENERAL. The equipment provided under this section shall be fabricated, assembled, erected, and placed in proper operating condition in full conformity with the drawings, specifications, engineering data, instructions and recommendations of the equipment manufacturer unless exceptions are noted by the engineer.

Stop logs shall be supplied with all the necessary parts and accessories indicated on the drawings, specified or otherwise required for a complete, properly operating installation, and shall be the latest standard product of a manufacturer regularly engaged in the production of stop logs.

The stop logs supplied under this section shall be Series 95 Stainless Steel Stop Logs as manufactured by H. Fontaine Ltd.

1.3. QUALITY ASSURANCE

1.3.1. The manufacturer shall have experience in the production of substantially similar equipment and shall show evidence of satisfactory operation in at least 5 installations. The manufacturer's shop welds, welding procedures and welders shall be qualified and certified in accordance with the requirement of the latest edition of ASME, Section IX.

1.3.2. The fully assembled stop logs shall be shop inspected before shipping.

1.3.3. The manufacturer shall be ISO 9001 certified.

1.4. SUBMITTALS. The manufacturer shall submit, for approval by the purchaser, drawings showing the principal dimensions, general construction and materials used in the gate and lift mechanism.

2. PERFORMANCE

2.1. LEAKAGE. Stop logs shall be substantially watertight under the design head conditions. Leakage shall not exceed 0.1 gallon per minute per foot of periphery for the rated seating head.

2.2. DESIGN HEAD. For the purpose of these specifications, stop logs shall be defined as meeting the leakage requirements maximum water level (height of stop logs in channel).

3. PRODUCT

3.1. STOP LOGS

3.1.1. GENERAL DESIGN. Stop logs shall be constructed entirely of stainless steel. All hardware shall be stainless steel.

3.1.2. FRAME. The frame shall be made of stainless steel channels. The frame shall be suitable for mounting on a concrete wall (CW), embedding in a channel (FE), or installation inside an existing channel (EC).

3.1.3. LOGS. The logs shall consist of a flat plate reinforced with formed plates or structural members to limit their deflection to 1/360 of the gate's span under the design head. The guide shall be of UHMWPE (ultra high molecular weight polyethylene).

3.1.5. SEALS. Seals shall be made of EPDM attached to the logs by means of a UHMWPE retainer guide. The bottom seal is attached to the log with a stainless steel retainer and seal on top of the log immediately underneath.

3.2. LIFTING DEVICE. When required, a stainless steel lifting device shall be supplied for each log width. The width of the lifting device will be the same as the log channel. The lifting device shall be equipped with a device to allow releasing of the stop log from the operating floor. This device shall grab the log automatically.

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4. MATERIALS

Part	Material
Frame, log, reinforcements bottom seal retainer	Stainless steel ASTM A-276 Type 304L or 316L
Guide	Ultra high molecular weight polyethylene (UHMWPE) ASTM D-4020-96
Seal	EPDM ASTM D-2000
Fasteners	ASTM F593 and F594 GR1 for type 304 and GR2 for type 316

5. SCHEDULE

Stop log Identification		
Channel width		
Channel invert elevation		
Top of channel elevation		

Mounting:

- FE - Frame embedded
- EC - Existing channel
- CW - Concrete wall mounted

6. EXECUTION

6.1. INSTALLATION. Gates and appurtenances shall be handled and installed in accordance with the manufacturer's recommendations.