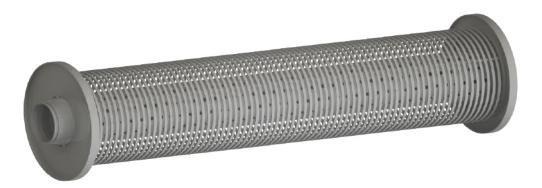
24754 East River Road Escalon, CA 95320 Phone: 209.838.2550 Fax: 209.838.3544 www.morrillinc.com

1700 SERIES STATIC FISH SCREENS



INTRODUCTION

The Morrill Industries, Inc. 1700 Series Static Fish Screen is a 304/304L Stainless Steel/Wedge Wire passive type fish screen. Passive Screens are used in applications in which Active or self-cleaning screens cannot be utilized, reference Section 11.10.1.3 of the National Marine Fisheries Service, Anadromous Salmonid Passage Facility Design criteria.

11.10.1.3 Passive Screens: A passive screen should only be used when all the following criteria are met:

- The site is not suitable for an active screen, due to adverse site conditions
- Uniform approach velocity conditions must exist at the screen face, as demonstrated by laboratory analysis or field verification
- The debris load must be low
- The combined rate of flow at the diversion site must be less than 3 cfs
- Sufficient ambient river velocity must exist to carry debris away from the screen face
- A maintenance program must be approved by NMFS and implemented by the water user
- The screen must be frequently inspected with debris accumulations removed, as site conditions dictate
- Sufficient stream depth must exist at the screen site to provide for a water column of at least one screen radius around the screen face
- The screen must be designed to allow easy removal for maintenance, and to protect from flooding

OPERATION

The 1700 Series Static Fish Screens are designed to be on the suction or intake side of a pumping system. They can be utilized in any body of water that contains fish or wildlife that may be adversely affected / mortally injured by the mechanical intake of water. Water is suctioned through the wedge wire screen and a balance tube at pre-determined, qualifying flow rate. Stand off rings help to prevent loss of screen area when the units are resting on the bottom of a body of water. The passive nature of the screen allows for no mechanical moving parts.

FILTER CONSTRUCTION

- Johnson Wedge Wire Screen (304/304L Stainless Steel)
 - o 0.068" Slot Size
 - o 0.071" Wire Width
 - o 48.9% Open Area
- Balance Tube (14 gauge 304/304L Stainless Steel)
 - o 304/304L Stainless Steel ASTM A240
- Stand Off Rings (304/304L Stainless Steel)

- Connections available
- Groove
- Flange
- Plain End

*STATIC SCREENS ARE A NON-STOCKING ITEM, AND ARE BUILT PROJECT SPECIFIC. CALL US FOR ORDERING DETAILS.

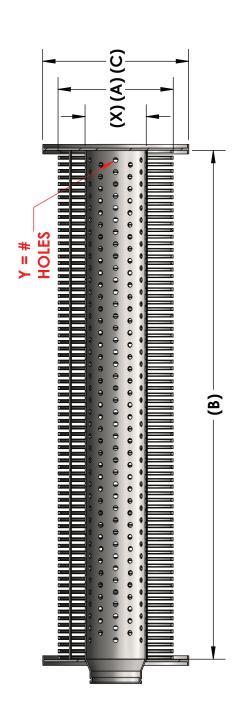






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SPECIFICATIONS



LBS. MAX GPM @ 2.75 FPS		185 51	375 103	500 135	750 210	1500 450	2050 570	1500 630	3400 916
BALANCETUBE									
	Y	24	48	29	96	192	275	275	398
	×	6.63	6.63	8.63	8.63	12.75	16.00	16.00	18.00
SLOT VELOCITY	GPM	552	1095	1463	2194	4635	6102	9989	10200
	0.083 0.0500 FT/SEC (CFS)	1.26	2.52	3.26	4.89	10.30	13.60	15.30	227.00
APPROACH VELOCITY (GPM FLOW RATE @ GIVEN FPS)	0.0500	112	225	300	450	925	1245	1400	2075
	0.083	185	375	200	052	1550	2050	2325	3400
	16" 0.1000	225	450	009	006	1875	2490	2800	4150
CONNECTION SIZES (FOR GROOVES)							X	X	X
	10" 12" 14"						X	X	X
	12"					X	X	X	X
	10"					X	X	X	X
	8			×	X	X	X	X	
	(6,1		X	×	X	X			
	4"	X	X	×	X				
SCREEN DATA	OPEN AREA FT.	2.44	4.89	6.52	81.7	20.44	27.20	30.70	45.60
	$ \begin{vmatrix} AREA \\ AREA \end{vmatrix} $ SQ. FT.	9.00	10.00	13.34	20.00	41.80	95.50	62.80	93.40
	C	19.3	19.3	19.3	19.3	22.5	30.5	30.5	36.5
	В	18	98	48	72	120	106		144
	A	12.8	12.8	12.8	12.8	16.00	24.00	24.00	30.00
MODEL#		1712-0185	1712-0375	1712-0500	1712-0750 12.8	1716-1500	1724-2000 24.00	1724-2300 24.00 120	1730-3400 30.00 144



