



RODGERS & COMPANY

Axis Well Installation Submittal Information
EW-005, EW-006, and IW-636R
Well Screen

Date: December 11, 2014
Submitted by: Rodgers & Company, Inc.
Spec. Reference: SECTION 2680 2.01

2.02 WELL SCREEN

A. **Well Screen:** A 10-3/4-inch outside diameter (OD) schedule 40, 304 stainless steel continuous slot, wire-wound screen shall be used for the screen section(s) of the wells. The well screen shall be installed in the overall interval between the blank casing and bottom sump. The slot size of the well screen shall be 0.050-inch (slot size to be confirmed in field prior to screen installation based on sieve analysis results). All screen sections shall have a welding ring with a machined bevel on the end to allow for welding the screen sections together such that the sections will be aligned and plumb when placed in the well bore.

The following table provides anticipated screen lengths:

Well Name Screen Length (feet)

EW-005 40
EW-006 40
IW-636R 180

B. All well screen material shall be new.



WELL SCREEN SUBMITTAL DATA

CLIENT:
PROJECT: 10" 304SS, .050 - 600' CONSTRUCTION

Material	304 Stainless			
Nom Size	10	PS	250	<i>mm</i>
Estimated Total Well Depth	500	ft	152	<i>meters</i>
Estimated Feet of Screen	260	ft	79	<i>meters</i>
Design Slot Size	0.050	in	1.3	<i>mm</i>
Approx. Outside Diameter	10.84	in	275	<i>mm</i>
Screen Barrel Inside Diameter	10.09	in	256	<i>mm</i>
Approx. Clear ID at Fittings	9.87	in	251	<i>mm</i>
Approx. Weight Per Ft	12	lbs	6	<i>kg</i>
Wire Width	0.150	in	3.8	<i>mm</i>
Wire Height	0.220	in	5.6	<i>mm</i>
Calc. Collapse Strength *	152	PSI	11	<i>kg/sq.cm</i>
Open Area	25.0%			
Intake Area	102	sq.in./ft	2,162	<i>sq.cm./meter</i>
Transmitting Capacity-at 0.1 ft/sec	32	gpm/ft	7	<i>lps/meter</i>
Support Rod Diam	0.150	in	3.8	<i>mm</i>
No Rods	56			
Cross Sectional Rod Area	1.21	sq.in.	7.80	<i>sq.cm.</i>
Design Yield Strength	30,000	PSI	2,109	<i>kg/sq.cm</i>
Calc. Tensile Strength *	30,800	lbs	14,000	<i>kg</i>
Max. Recommended Hang Wt. *	15,400	lbs	7,000	<i>kg</i>
Column Load **	18,600	lbs	8,400	<i>kg</i>

* A broad range of site conditions can impact the physical strength requirements for a successful screen installation. Consult Johnson Screens with questions regarding the parameters presented above as they relate to your specific requirements.

** Vertical weight on screen that should not be exceeded without consulting manufacturer. Column load calculations should include some allowance for gravel pack contribution.