



# WELL CONSTRUCTION SPECIFICATIONS

Vertebrae™ well segments (screens or wells) are composed of unique materials that allow prefabrication and flexibility. The well materials perform similar or better than traditional well materials. For instance, our well screens are generally 1 inch nominal but have nearly a 60 slot opening. This equates to 5 sqin per foot open area, which is 7 times greater than that of 3 inch longitudinally slotted screen. The wells are covered in a geotextile providing the optimum multipurpose design, although the custom design allows for alternative screen covering when necessary.

Common Screen Specifications			
Standard Sizes			
Type	Open Area	Unit	Note
3" Longitudinal slots	0.72	sqin / ft	restrictive
1" Standard 10 slot wells	1.71	sqin / ft	
2" Standard 10 slot wells	2.51		
Vertebrae™ 1" Screens	5.0	sqin / ft	2 to 7 times the open area

We also design with 1.25, 1.5, and 2 inch nominal segments for custom installation. In many instances we have realized these larger screens sizes were unnecessary due to the excellent characteristics of the 1 inch Vertebrae segments.

Risers (conveyance tubing) is composed of High Density Polyethylene (HDPE) tubing. This tubing is durable, flexible, chemical resistant to most COCs and reagents as well as ozone. The rated pressures are similar to the sch 40 piping commonly used in the industry. Typically used sizes are below. In some instances, alternative tubing is available.

HDPE Common Vertebrae Sizes			
Standard Sizes			Working Pressure
I.D. Sizes	O.D. Sizes	Use	PSI@73°F
3/8	1/2	Sampling / Injection/ BS	151
5/8	3/4	Sampling / Injection / AS / VI	123
7/8	1	VI / AS/ LE (P&T)	90
1	1-1/4	Vapor Extraction	152
1-1/4	1-1/2	Vapor Extraction	124
1-3/4	2	Vapor Extraction	105

Bio Sparging (BS) / Vapor Intrusion (VI) / Air Sparging (AS) / Liquid Extraction (LE) / Vapor Extraction (VE)

