

# TECHNICAL DATA

## VINYLFLOW® / IRONSIDES® / VINYLFLOW® EZ-Lite™ Friction Loss per 100 Ft. (PSI)

GPM	1.5"	2"	2.5"	3"	4"	6"	8"	10"	12"	14"	16"
20	1.2										
30	2.4										
40	5.1	1.1									
50	6.0										
60		2.4	1.4								
80		4.1	1.9	1.0							
90	17.0										
100		6.0	2.8	1.2							
120				1.8							
140				2.2							
160				2.6	0.6						
180				3.3	0.7						
200		22	7		0.8						
220					1.0						
240					1.1		0.2				
250				5							
260					1.3	0.2					
280					1.4	0.2					
300					1.6	0.2					
340						0.3					
350		22									
380						0.4					
420						0.5					
460						0.6					
500					4	0.7					
540						0.8					
580			22			0.9					
620						1.0					
660						1.1					
1,200						3.0					
1,250					22						
1,800							1.5				
2,500								1.0			
3,500									0.8		
3,630						22					
5,000							11			0.6	
6,000											0.4
8,000								8			
12,000									8		
15,000										5	
16,000											30

## VINYLFLOW® Longitudinal Elongation (%) (on flat ground only)

PRESSURE (PSI)								
SIZE	10	20	30	40	50	60	70	80
1 1/2"	0.00	0.01	0.02	0.06	0.14	0.17	0.35	0.50
2"	0.01	0.03	0.04	0.15	0.32	0.38	0.61	0.84
2 1/2"	0.06	0.15	0.23	0.50	0.79	0.95	1.33	1.57
3"	0.03	0.14	0.21	0.34	0.63	0.76	1.10	-
4"	0.14	0.35	0.53	0.90	1.40	1.68	1.98	-
6"	0.14	0.42	0.63	1.08	1.35	-	-	-
8"	0.21	0.57	0.86	1.47	-	-	-	-
10"	0.15	0.39	0.59	-	-	-	-	-
12"	0.14	0.55	0.82	-	-	-	-	-
16"	0.00	0.28	0.42	-	-	-	-	-

REV. 11.08

## VINYLFLOW® EZ-Lite™ Longitudinal Elongation (%) - (on flat ground only)

PRESSURE (PSI)						
SIZE	10	20	30	40	50	60
1 1/2"	0.00	0.10	0.20	0.30	0.40	0.60
2"	0.00	0.20	0.30	0.60	0.80	-
3"	0.20	0.40	0.80	1.20	-	-
4"	0.20	0.50	1.40	1.90	-	-
6"	0.00	0.40	0.80	1.40	-	-
8"	0.20	0.80	1.60	2.20	-	-

**For sloped ground, add the head pressure shown below:**

Slope Angle	Additional Head Pressure Pressure per 300 ft.
5°	11
10°	23
15°	34
20°	44
25°	55
30°	65
35°	75
40°	83
45°	92

## IRONSIDES® Longitudinal Elongation (%) - (on flat ground only)

Size	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
<b>1 1/2"</b>	0.00	0.10	0.10	0.20	0.30	0.36	0.40	0.50	0.60	0.60	0.80	0.90	0.90	1.00	1.10
<b>2"</b>	0.00	0.00	0.00	0.10	0.10	0.10	0.20	0.40	0.60	0.60	0.70	0.80	0.80	0.90	1.10
<b>2 1/2"</b>	0.00	0.00	0.10	0.20	0.30	0.40	0.40	0.60	0.60	0.80	1.00	1.10	1.10	1.30	1.30
<b>3"</b>	0.00	0.10	0.10	0.20	0.30	0.40	0.50	0.50	0.60	0.70	0.80	1.00	1.10		
<b>4"</b>	0.00	0.10	0.20	0.30	0.40	0.50	0.70	0.80	0.90	1.20	1.30	1.40	1.40		
<b>6"</b>	0.00	0.10	0.30	0.50	0.50	0.60	0.80	0.90	1.00	1.20					
<b>8"</b>	0.10	0.20	0.50	0.80	1.00	1.20	1.50	0.00							

BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS WITHOUT PRIOR NOTICE.