



Tech Tips 017

Waterstop Sizing Chart

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Non-Metallic Waterstops— Size vs. Hydrostatic Head

1											275	275
9/16										250	250	
1/2								225	225			
7/16							200	200				
3/8						175	175					
5/16					150	150						
1/4				125	125							
3/16			100	100								
1/8		75	75									
1/16		50										
0	1	2	3	4	5	6	7	8	9	10	11	12



Adapted from Corps of Engineers “Waterstops and Other Joint Materials” – EM1110-2-2102

The relation of material thickness and width requirements of thermoplastic waterstops versus the height of hydrostatic head. For example in the above graph, a concrete dam or lock that is designed to resist a 125 ft of water head of hydrostatic pressure may require a PVC waterstop that is 6 inches wide and ¼” thick. A wide range of PVC waterstop dimensions may be used to resist a single head pressure. This relationship represents an average value of hydrostatic pressure ratings for various sizes of PVC waterstops and is therefore relatively insensitive to small, subtle variations in the configuration of



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each individual waterstop. Thus, the graph is only valid for use as general guidance in the design and selection of thermoplastic waterstops.

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