



**Jim Doyle, Governor**  
**Cory L. Nettles, Secretary**

January 13, 2005

FOX WATER SOFTENER, INC.  
RAY T. MAYNE  
1017 N SHERMAN AVE  
MADISON WI 53704

Re: Description: WATER TREATMENT DEVICE- SOFTENER  
Manufacturer: FOX WATER SOFTENER, INC.  
Product Name: WOLVERINE  
Model Number(s): 16 MVW, 24 DBW, 24 MVW, 32 DBW, 32 MVW, 48 DBW AND 48 MVW  
Product File No: 20040411

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters Comm 82 through 84, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. This approval is valid until the end of January 2010.

This approval supercedes the approval issued on December 27, 1999 under product file number 19990849.

This approval is contingent upon compliance with the following stipulation(s):

- This product has undergone sufficient testing to document the product's ability to reduce only those contaminants and/or substances as specified in this approval letter when the product is installed and maintained in strict accordance with the manufacturers published instructions.
- For buildings not served by a municipal water supply, Department of Natural Resources (DNR) written approval may be required prior to installation of this product in a water supply system to reduce the concentration of a contaminant that exceeds the primary drinking water standards contained in ch. NR 809, Wis. Admin. Code, the enforcement standards contained in ch. NR 140, Wis. Admin. Code, or for a water supply system that is subject to a written advisory opinion by the DNR. For more information contact the DNR Section of Private Water Systems, P.O. Box 7921, Madison, WI 53707, telephone (608) 266-3415.
- If these approved devices are modified or additional assertions of function or performance are made, then this approval shall be considered null and void, unless the change is submitted to the department for review and the approval is reaffirmed.
- These cation exchange water softeners shall be sized, installed, programmed and maintained such that wastewater, total dissolved solids and chloride discharges are minimized.

Based on testing data submitted to and reviewed by the department, this approval recognizes that these plumbing products will reduce the concentration of contaminants as specified on pages 1 through 2 of this letter.

**WATER SOFTENING CAPABILITIES  
 PRODUCT FILE NUMBER 20040411  
 TABLE 1 OF 1**

Model Numbers		Capacity*						
		Rating 1		Rating 2		Rating 3		Flow Rate
Wolverine Series		Grains	Pounds	Grains	Pounds	Grains	Pounds	gpm @ psig
DBW (DIR)	MVW (Time Clock)							
-	16 MVW	12,400	6.0	14,800	9.0	16,200	12.0	5.0 @ 6.1
24 DBW	24 MVW	18,700	6.0	22,500	9.0	24,500	12.0	7.3 @ 14.7
32 DBW	32 MVW	21,900	6.0	26,200	9.0	29,300	12.0	8.0 @ 9.4
48 DBW	48 MVW	35,600	6.0	42,600	9.0	47,500	12.0	8.8 @ 14.8

\* The softener capacity rating is based on grains of hardness, due to calcium and magnesium cations, removed (as calcium carbonate) while producing soft water between successive regenerations and is related to the pounds of salt required for each regeneration. The tests run to verify the data for table 1 of 1 were conducted in accordance with WQA standard S-100-85, which has since been retired.

This device was tested under controlled laboratory, or field, conditions. The actual performance of this device for a specific end use installation will vary from the tested conditions based on local factors such as water pressure, water temperature and water chemistry.

The department is in no way endorsing this product or any advertising, and is not responsible for any situation that may result from its use.

Sincerely,

Glen W. Schlueter  
 Engineering Consultant-Plumbing Product Reviewer  
 Bureau of Integrated Services  
 Safety and Buildings Division  
 Department of Commerce  
 (608) 267-1401 **Phone**  
 (608) 267-9566 **Fax**  
 gschlueter@commerce.state.wi.us **Email**  
 8:00AM – 4:30PM CT **Work Hours**

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