



**100% SYNTHETIC CONSTRUCTION**  
**THERMOPLASTIC LINED**  
**DOUBLE JACKET FIRE HOSE**  
**400 PSI SERVICE TEST PRESSURE (2750 Kpa)**  
**SIZES: 1", 1 1/2", 1 3/4", 2", 2 1/2", 3".**  
**April 2009**

## HWM-800

### SCOPE

**QUALITY:** The fire hose to be supplied under this specification shall be a premium quality, lightweight, flexible, double jacket, abrasion resistant municipal fire hose designed for ease of handling.

### HOSE CONSTRUCTION

**A. JACKETS:** The yarns in both jackets shall be high strength, filament polyester. The warp yarn shall be multifilament for the inner jacket and high abrasion resistant spun yarn for the outer. The filler yarn shall be specially twisted for both jackets to achieve maximum strength.

**B. LINING:** The thermoplastic lining shall be a single-ply-extruded tube, compounded to totally eliminate deterioration by Ozone or other environmental pollutants.

The tensile strength of the lining material shall be not less than 2500 PSI.

Lining shall be smooth and free of imperfections to maximize water flow.

**C. HOSE:** Hose shall be constructed of materials, which are resistant to mildew, mold, environmental pollutants, most oil and chemicals. Hose shall remain flexible down to -65°F (-55°C).

### HYDROSTATIC TESTS

HOSE SIZE (I.D.)	SERVICE TEST PRESSURE	ACCEPTANCE TEST PRESSURE	MINIMUM BURST PRESSURE
1" 25mm	400 PSI 2750 kPa	800 PSI 5500 kPa	1200 PSI 8280kPa
1 1/2" 38mm	400 PSI 2750 kPa	800 PSI 5500 kPa	1200 PSI 8280kPa
1 3/4" 45mm	400 PSI 2750 kPa	800 PSI 5500 kPa	1200 PSI 8280kPa
2" 52mm	400 PSI 2750 kPa	800 PSI 5500 kPa	1200 PSI 8280kPa
2 1/2" 65mm	400 PSI 2750 kPa	800 PSI 5500 kPa	1200 PSI 8280kPa
3" 76mm	400 PSI 2750 kPa	800 PSI 5500 kPa	1200 PSI 8280kPa

### HOSE WEIGHT AND COIL DIAMETER

HOSE SIZE (I.D.)	AVERAGE WEIGHT 50' UNCOUPLED	AVERAGE COIL DIAMETER 50' UNCOUPLED
1" 25mm	7.5 lbs	15"
1 1/2" 38mm	11.0 lbs	15"
1 3/4" 45mm	12.0 lbs	16"
2" 52mm	16.0 lbs	16"
2 1/2" 65mm	20.0 lbs	16"
3" 76mm	24.5 lbs	16.5"

**STANDARDS:** Fire hoses manufactured under this specification shall meet or exceed the performance requirements of N.F.P.A. Standard 1961 (2002), U.L. Standard 19 and F.M. Standard Class # 2111 (1999).

**COATING:** When requested the hose shall be treated with Highwater Technolac coating to maximize abrasion resistance and minimize water absorption.