



WATER TANK SPECIFICATIONS

GENERAL

1. ALL MATERIALS AND CONSTRUCTION SHALL MEET VIRGINIA DEPARTMENT OF HEALTH REGULATIONS.
2. THE MATERIALS, FABRICATION, AND ERECTION OF THE TANK SHALL CONFORM TO AWWA D100-86 FOR 100 MPH WIND LOADS AND SEISMIC ZONE 1.

PAINTING SPECIFICATIONS

1. PAINTING MATERIALS AND APPLICATION SHALL COMPLY WITH AWWA D102-87 AND NSF.
2. PAINT PREPARATION:
 - A. SURFACE PREPARATION:
 1. INTERIOR WET SURFACES: BLAST TO SSPC-SP10 (NEAR WHITE BLAST)
 2. EXTERIOR AND INTERIOR DRY SURFACES: BLAST TO SSPC-SP6 (COMMERCIAL BLAST)
 - B. WELD PREPARATION:
 1. ALL WELDS ARE TO BE SMOOTH OR GROUND SMOOTH
 2. ALL SHARP CORNERS OR BURRS ARE TO BE GROUND SMOOTH
 3. ALL WELD SPLATTER IS TO BE REMOVED COMPLETELY.
3. PAINT APPLICATION:
 - A. PAINT SHALL BE APPLIED PER THE MANUFACTURER'S RECOMMENDATIONS AND BE FREE OF RUNS, SAGS, DRIPS, AND HOLIDAYS.
 - B. PAINT SHALL BE APPLIED TO THE MINIMUM MILLAGES SHOWN.
 - C. ALL PAINT IS TO BE Tnemec COMPANY, INC. OR APPROVED EQUAL BRAND.
 - D. DO NOT PAINT SAFETY DEVICES.
4. PAINT DESCRIPTION:
 - A. ALL INTERIOR AREAS (WET AND DRY) AND EXTERIOR AREAS ARE TO BE PRIMED IN THE SHOP WITH Tnemec SERIES 20-155 (BEIGE) POTA POX.
 - B. ALL INTERIOR (WET AND DRY) AND EXTERIOR WELD SEAMS ARE TO BE PRIMED BY BRUSH APPLICATION IN THE FIELD WITH Tnemec SERIES 20-155 (BEIGE) POTA POX.
 - C. ALL INTERIOR (WET AND DRY) AREAS ARE TO BE FINISHED WITH Tnemec 20-WH02 (TANK WHITE) POTA POX.
 - D. ALL EXTERIOR AREAS ARE TO BE FINISHED WITH Tnemec SERIES 68 H-BUILD EPOXOLINE (TINT FOR CONTRAST WITH FINAL COLOR) AND Tnemec SERIES 73 ENDURA-SHIELD.
5. TOTAL MINIMUM DRY MILLAGES:
 - A. INTERIOR (WET AND DRY):
 - PRIME = 3.0, INTERM. = N/A, FINISH = 5.0
 - TOTAL = 8.0
 - B. EXTERIOR
 - PRIME = 3.0, INTERM. = 2.0-3.0, FINISH = 2.0-3.0
 - TOTAL = 7.0-9.0

DISINFECTION OF STORAGE TANKS

1. THE STORAGE TANK SHALL BE CLEANED AND FLUSHED WITH POTABLE WATER FROM A SUPPLY APPROVED BY THE DEPT. OF HEALTH PRIOR TO DISINFECTION. AFTER THE INTERIOR PAINT IS SUFFICIENTLY CURED, ALL INTERIOR SURFACES SHALL BE STERILIZED IN ACCORDANCE WITH AWWA C652-86, SECTION 4.2, METHOD 2.
2. A SOLUTION OF 200 MG/L AVAILABLE CHLORINE SHALL BE APPLIED TO ALL INTERIOR SURFACES USING SPRAY EQUIPMENT. THE EQUIPMENT SHALL BE NEW OR PREVIOUSLY USED ONLY FOR DISINFECTION PURPOSES.
3. ALLOW A MINIMUM OF 30 MINUTES CONTACT TIME FOR THE SOLUTION AFTER WHICH THE TANK SHALL BE FILLED AND SAMPLED. AT LEAST TWO BACTERIOLOGICAL SAMPLES WITH NO COLIFORM CONTAMINATION SHALL BE COLLECTED AT LEAST 24 HOURS APART.

WATER SYSTEM CONTROLS

1. TANK WATER LEVELS WILL BE MONITORED BY A HIGH PERFORMANCE TRANSDUCER LOCATED ON THE TANK DRAIN LINE. THE TRANSDUCER SHALL BE CONNECTED TO A CONTROLLER WHICH WILL ACTIVATE AND DEACTIVATE WELLS SUPPLYING THE WATER SYSTEM USING A REMOTE DIALER.
2. THE TRANSDUCER SHALL BE A HIGH PERFORMANCE TRANSDUCER CAPABLE OF SENSING TANK WATER LEVELS WITHIN 0.2 FEET.
3. THE CONTROLLER SHALL BE AN AMETEK MODEL 572 DIGITAL METER/CONTROLLER.