

SANITARY WASTE AND VENT PIPING – PLASTIC

1. PIPING AND FITTINGS

- .1 FOR BURIED AND ABOVE GROUND DWV PIPING TO:
 - .1 CAN/CSA B1800.

2. JOINTS

- .1 SOLVENT WELD FOR PVC: TO ASTM D2564.

3. APPLICATION

- .1 MANUFACTURER'S INSTRUCTIONS: COMPLY WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS, INCLUDING PRODUCT TECHNICAL BULLETINS, HANDLING, STORAGE AND INSTALLATION INSTRUCTION AND DATASHEETS.

4. INSTALLATION

- .1 INSTALL IN ACCORDANCE WITH MANITOBA PLUMBING CODE.

5. TESTING

- .1 PRESSURE TEST BURIED SYSTEMS BEFORE BACKFILLING.
- .2 HYDRAULICALLY TEST TO VERIFY GRADES AND FREEDON FROM OBSTRUCTIONS.

6. PERFORMANCE VERIFICATION

- .1 CLEANOUTS:
 - .1 ENSURE ACCESSIBLE AND THAT ACCESS DOORS ARE CORRECTLY LOCATED.
 - .2 OPEN, COVER WITH LINSEED OIL AND RE-SEAL.
 - .3 VERIFY THAT CLEAN-OUT RODS CAN PROBE AS FAR AS THE NEXT CLEANOUT, AS A MINIMUM DISTANCE.
- .2 TEST TO ENSURE TRAPS ARE FULLY AND PERMANENTLY PRIMED.
- .3 STORM WATER DRAINAGE:
 - .1 VERIFY DOMES ARE SECURE.
 - .2 ENSURE WEIRS ARE CORRECTLY SIZED AND INSTALLED.
 - .3 VERIFY PROVISIONS FOR MOVEMENT OF ROOT SYSTEM.
- .4 ENSURE FIXTURES ARE PROPERLY ANCHORED, CONNECTED TO SYSTEM AND EFFECTIVELY VENTED.
- .5 AFFIX APPLICABLE LABEL (STORM, SANITARY, VENT, PUMP DISCHARGE) C/W DIRECTIONAL ARROWS EVERY FLOOR OR 4.5 METERS (WHICHEVER IS LESS).

COMMERCIAL WASHROOM FIXTURES

1. MANUFACTURED UNITS

- .1 FIXTURES: MANUFACTURE IN ACCORDANCE WITH CAN/CSA-B45 SERIES.
- .2 TRIM, FITTINGS: MANUFACTURE IN ACCORDANCE WITH CAN/CSA-B125.3.
- .3 EXPOSED PLUMBING BRASS TO BE CHROME-PLATED.
- .4 NUMBER, LOCATIONS: AS INDICATED.
- .5 FIXTURES IN ANY ONE LOCATION TO BE PRODUCT OF ONE MANUFACTURER AND OF SAME TYPE.
- .6 TRIM IN ANY ONE LOCATION TO BE PRODUCT OF ONE MANUFACTURER AND OF SAME TYPE.

2. APPLICATION

- .1 MANUFACTURER'S INSTRUCTIONS: COMPLY WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS, INCLUDING PRODUCT TECHNICAL BULLETINS, HANDLING, STORAGE AND INSTALLATION INSTRUCTION AND DATASHEETS.

3. INSTALLATION

- .1 MOUNTING HEIGHTS:
 - .1 STANDARD: TO MANUFACTURER'S RECOMMENDATIONS.
- .2 WALL-HUNG FIXTURES: AS INDICATED.
- .3 BARRIER FREE: TO MOST STRINGENT STANDARD (MANITOBA BUILDING CODE, CAN/CSA B651).

4. ADJUSTING

- .1 ADJUSTMENTS:
 - .1 ADJUST WATER FLOW RATE TO DESIGN FLOW RATES.
 - .2 ADJUST PRESSURE TO FIXTURES TO ENSURE NO SPLASHING AT MAXIMUM PRESSURES.
 - .3 ADJUST FLUSH VALVES TO SUIT ACTUAL SITE CONDITIONS.
- .2 CHECKS:
 - .1 WATER CLOSETS: FLUSHING ACTION.
 - .2 AERATORS: OPERATION, CLEANLINESS.
 - .3 VACUUM BREAKERS, BACKFLOW PREVENTERS: OPERATION UNDER ALL CONDITIONS.
- .3 THERMOSTATIC CONTROLS:
 - .1 VERIFY TEMPERATURE SETTINGS, OPERATION OF CONTROL, LIMIT AND SAFETY CONTROLS.

HEATING, VENTILATION & AIR CONDITIONING

1. PROVIDE SUPPLY AIR, RETURN AIR, AND EXHAUST AIR DUCT SYSTEMS AS SHOWN.

2. ALL DUCTWORK INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH SMACNA LATEST EDITION DUCT STANDARDS.

3. THIS SUB CONTRACTOR SHALL SUPPLY AND INSTALL ALL DUCTWORK INCLUDING APPURTENANCES, HANGERS, DAMPERS, ETC.

- 3.1 RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED FROM GALVANIZED SHEET METAL OF THE FOLLOWING U.S. STANDARD GAUGES:
 - DUCTS UP TO 12" [305mm] ON LONGEST DIMENSION..... 26 GA.
 - DUCTS 13" [330mm] TO 28" [705mm] ON LONGEST DIMENSION..... 24 GA.
 - DUCTS 29" [730mm] TO 48" [1220mm] ON LONGEST DIMENSION..... 22 GA.

TESTING AND BALANCING OF MECHANICAL SYSTEMS

1. INDEPENDENT RECOGNIZED AIR BALANCE CONTRACTOR SHALL BE AABC CERTIFIED.

2. TEST AND BALANCE BUILDING EXHAUST TO WITHIN 5% OF DESIGN.