

PART 1 - GENERAL

1.1 RELATED SECTIONS

- .1 Section 01 35 29.06 - Health and Safety Requirements
- .2 Section 07 52 00 - Modified Bitumen Membrane Roofing

1.2 REFERENCE STANDARDS AND MINIMUM REQUIREMENTS

- .1 Conform to National Building Codes and requirements of Provincial and Municipal Authorities. Most stringent requirements shall govern where in conflict.

PART 2 - PRODUCTS

2.1 PIPE AND FITTINGS

- .1 Cast iron to CAN/CSA-B70-02, Class 4000. Fittings shall be equal in quality and thickness to pipes and sized to match existing system.

2.2 MECHANICAL JOINTS

- .1 Adjustable butyl or rubber gasket with stainless steel clamp type joint.

2.3 PIPE HANGERS

- .1 Adjustable type wrought iron designed to allow pipe movement and insulation to pass unbroken through hanger.

2.4 INSULATION

- .1 25mm thick preformed type mineral fibre insulation with vapour barrier jacket and vapour sealed joints.
- .2 Areas of exposed installations provide canvas vapour jacket painted to match interior finish.

2.5 ROOF DRAIN

- .1 Epoxy coated cast iron roof drain with deep sump, wide serrated flashing flange, flashing clamp device with integral gravel stop and self-locking cast iron dome strainer

PART 3 - EXECUTION

3.1 PIPING INSTALLATION

- .1 Install piping straight, parallel and close to walls and ceilings, with specified pitch. Use Standard fittings for direction changes.
- .2 Fit to roof drains, drainage pipe and fittings. Install mechanical and caulked joints. Make joints watertight and gastight.
- .3 Conceal pipes in ceiling spaces or walls. Where this is impossible, review with Departmental Representative to determine acceptable locations.
- .4 Secure hangers to building structure. Space pipe supports at maximum 2500mm centres with 13mm diameter rods. Pipe shall have a minimum of one support for each length. Locate close to hub.
- .5 Provide clean-outs for drains and soil pipes in straight runs at ends of branches.

.6 Install insulation at horizontal and vertical sections of drainage pipes.

.7 Connect new drainage pipes to existing rain water leaders.

3.2 DRAIN INSTALLATION

.1 Fit roof drains to drainage pipe and fittings. Install mechanical joints. Make joints watertight and gastight.

.2 Secure to existing substrate with mechanical deck clamps.

.3 Adjust roof drain height to match new roof insulation thickness.

.4 Set to permit proper drainage and not retard water flow after completion of roof membrane flashings plies.

3.3 RESTORATION

.1 Install a fire-rated ceiling access hatch below all roof drain locations. Paint hatch to match the colour of the existing ceiling.

.2 Restore opening cut through roof deck to match the existing conditions.

.3 Restore openings cut into finished areas to match the existing conditions and paint as required.

3.4 TEMPORARY DRAINAGE

.1 All roof areas not completed shall have temporary drainage.

.2 All insert drains shall be connected and sealed to the existing piping with a U-flow as a minimum connection.

.3 All temporary drains shall be removed prior to completing the new membrane application.

3.5 DISPOSAL

.1 All insert drains shall be considered temporary and shall be removed and discarded prior to new mechanical drain installation.

3.6 TESTING

.1 Prior to starting construction verify that all drains are clear and free flowing. Any blockages are to be reported, in writing on Company letterhead, to Departmental Representative prior to the start of any work. Once work has begun, The Contractor assumes responsibility for free flowing drains and the cost associated with clearing.

.2 Before restoring interior finish, ensure new system performs without leakage.