

DAMPPROOFING

1. GENERAL

1.1 Submittals

- .1 Product data: include product characteristics, performance criteria, application methods.

1.2 Delivery, Storage, and Handling

- .1 Provide and maintain dry, off-ground weatherproof storage.
- .2 Store materials on supports to prevent deformation.
- .3 Remove only in quantities required for same day use.
- .4 Store materials in accordance with Manufacturer's written instructions.

1.3 Project and Site Environmental Requirements

- .1 Apply dampproofing materials only when surfaces and ambient temperatures are within Manufacturers' prescribed limits.
- .2 Do not proceed with work when wind chill effect would tend to set bitumen before proper curing takes place.
- .3 Maintain air temperature and substrate temperature at dampproofing installation area above the Manufacturer's recommended installation temperature for 24 hours before, during, and 24 hours after installation.
- .4 Do not apply dampproofing in wet weather.

1.4 Measurement and Payment

- .1 No measurement will be made for the Work in this Section.
- .2 Include costs in the unit prices bid for the various structures as listed in the Schedule of Prices.

2. PRODUCTS

2.1 Materials

- .1 Compatibility: only use materials that are mutually compatible.
- .2 For application and curing at temperatures above 5°C:
 - .1 Primer: emulsified asphalt, cut 50% with potable water.
 - .2 Asphalt: emulsified asphalt, filled.

DAMPPROOFING

- .3 For application and curing at temperatures below 5°C:
 - .1 Primer: cutback asphalt, unfilled.
 - .2 Asphalt: cutback asphalt, filled.
- .4 Sealing compound: plastic cutback asphalt cement.

3. EXECUTION

3.1 Preparation and Installation

- .1 Remove loose materials, laitance, frost, oil, grease, and other materials affecting bonding, by wire brushing or sand blasting.
- .2 Seal exterior joints between foundation walls and footings, joints between concrete floor slab and foundation and around penetrations through dampproofing with sealing compound.
- .3 Apply primer.
- .4 Apply continuous, uniform coating, at coverage recommended by Manufacturer, to entire exterior faces of foundation walls from 50 mm below finished grade level to and including tops of foundation wall footings.
- .5 Apply two additional coats of dampproofing to vertical corners and construction joints for a minimum width of 225 mm on each side, and all around and for 225 mm along pipes passing through walls.

END OF SECTION

RIGID INSULATION

1. GENERAL

1.1 Work Included

- .1 Below grade insulation.

1.2 References

- .1 ASTM D2842 - Water Absorption of Rigid Cellular Plastics.
- .2 CAN/ULC-S701 - Thermal Insulation, Expanded, Extruded Polystyrene.

1.3 Measurement and Payment

- .1 No measurement will be made for the Work in this Section.
- .2 Include costs in the unit prices bid for the various structures as listed in the Schedule of Prices.

2. PRODUCTS

2.1 Materials

- .1 Board Insulation: rigid insulation, CAN/ULC-S701, Type 4, extruded cellular polystyrene, square edges, Celfort by Celfortec or Styrofoam SM by Dow Chemical; thickness as indicated on Drawings.
- .2 Fasteners: plated mechanical fasteners.
- .3 Protection board: fibreboard, minimum 12 mm thickness.

3. EXECUTION

3.1 Preparation

- .1 Verify substrate surface is flat, free of honeycomb, fins, irregularities, and any other material that will impede installation of insulation.
- .2 Verify insulation boards are unbroken, free of damage, with face membrane undamaged.
- .3 Verify walls being insulated have been reviewed and accepted.

3.2 Installation

- .1 Install insulation vertically and horizontally as indicated. Apply mechanical fasteners to Manufacturer's instructions.

RIGID INSULATION

- .2 Butt edges and ends tight to adjacent boards.
- .3 Protect insulation with fibreboard during backfilling.

END OF SECTION