

**SECTION 6.12  
CONCRETE CYLINDER CURING BOX**

**6.12.01--Description:** This item shall consist of furnishing an approved box for curing concrete cylinders for test purposes. The box shall remain the property of the Contractor. The box shall be constructed in accordance with these specifications and delivered to the location on the Project as directed by the Engineer.

**6.12.02--Materials:** The curing box shall be constructed with double walls separated by 50 mm of rigid foam insulation and shall have minimum internal dimensions of 1050 mm long by 450 mm wide by 480 mm deep. The top of the box shall be an insulated lid hinged at the back with a lock at front and shall provide a moisture-proof seal between the lid and the box. The box shall be constructed so that the required temperature and humidity within the box can be supplied by an immersible heater (minimum 1,000 watts) when immersed in a pool of water approximately 100 mm in depth at the bottom of the box. The heating elements shall be automatically controlled so that the temperature within the box will be maintained within the range stated below. The cylinders shall be supported so that they will not come in direct contact with the pool of water and that there will be free circulation of air over the water and around the cylinders.

A bimetallic thermometer shall be installed which measures the internal temperature of the curing box and can be read from the outside without opening the box. The curing box shall maintain an internal temperature of  $22^{\circ}\text{C} + 3^{\circ}\text{C}$ .

**6.12.03--Construction Methods:** The Contractor shall keep his curing box in good repair and shall provide and maintain all necessary unit connections to operate the curing box.

**6.12.04--Method of Measurement:** The furnishing of concrete cylinder curing box will be measured for payment by the number of boxes required for testing purposes or as ordered by the Engineer.

**6.12.05--Basis of Payment:** This work will be paid for at the contract price each for "Concrete Cylinder Curing Box," ordered and accepted on the project, which price shall include all materials, tools, equipment and labor incidental thereto, also all maintenance of all unit connections to operate the curing box.

Pay Item	Pay Unit
Concrete Cylinder Curing Box	EA.