

7 MECHANICAL INSTALLATIONS

ELECTRICAL

Electrical installations will require that channels be created in the EPS for the installation of the wires behind the interior or exterior finishing. In the same manner, cutouts will allow for the placement of electrical boxes.

The EPS thickness allows for standard electrical boxes to be installed in contact with the concrete, resulting with a projection of 1/2" (13mm) for the drywall.

Various tools can be utilized to create the channel in the EPS including; electric chainsaw (fitted with a depth guide), hot knife, router, or roto zip tool. Which tool is selected, will depend upon local site requirements and environmental concerns.

The cutouts for the electrical boxes can be achieved by using a hot knife or a keyhole saw.

The wire is usually friction fit in the channels to provide the minimum cover as required by the local electrical codes and standards. The electrical boxes can be mechanically fastened to the concrete using concrete screws or side flange boxes can be attached to the web using suitable wood screws.

PLUMBING

Plumbing installations are usually designed, so that few pipes will actually be located in the exterior wall in any type of construction.

The exception may be the vent for the kitchen sink and the hose bib. The kitchen vent may need to be installed vertically in the EPS. In this case, a channel should be created to accept the vent pipe which should be 1 1/2" (38mm) diameter or less. A hose bib will require a sleeve to be installed as per Section 2.13 of this manual. Installing a sleeve will permit replacement of the hose bib.