



DUMP PIT AND LEG BOOT

CPS
PLAN Q-7231

This dump pit and leg boot should be enclosed in a building, or a water-tight cover should be built over the unit.

The drive-over dump pit saves both time and labor during the rush harvest season. The holding capacity of the pit is approximately 10 m³. However, in most systems the leg and auger are in operation during dumping, thus increasing the real volume of grain that can be dumped at one time.

The size of the holding pit is an overall compromise of depth of excavation required for leg operation and self-cleaning installations will permit access to the base of the leg for cleanout. The 45 degree angle on the holding pit walls will facilitate self-cleaning under most conditions. A smooth concrete finish will also assist in self-cleaning.

Prior to construction, it is essential that manufacturer's specifications on the equipment be checked to ensure that all dimensions will correspond.

The auger and motor should be sized to have a capacity slightly below that of the leg to avoid overflow at the leg intake.

Construction problems can be anticipated where the water table is within 12 feet of the ground surface. In this case, the entire unit should be raised and fill used to build an access ramp and to landscape the site.

Materials Required

10 m³ – 20 MPa concrete, air entrained, sulfate-resistant if required by soil conditions.

256 metres – 10 M reinforcing rod
4 – W 310 x 40 wide-flange steel beams

DEVELOPED BY CANADA PLAN SERVICE