

MAP CODE
MCOR

MATERIAL CORRALS

USE Erosion
Stormwater

What

➤ Three-sided storage bays made from interlocking pre-cast concrete blocks.

Purpose

➤ To keep specialized products and material clean and segregated, especially at tight locations.



Photo: Sedun, RMX Recycling, Victoria B.C.

Where

YES: In areas of limited space, and where product purity specifications are strict.

Materials

➤ Pre-cast concrete blocks.

Equipment & Costs

✂ Excavator or front-end loaders, broom, pry bars.

💰 Depends on size of corral and price of blocks.

Plans & Spec's

- Follow manufacturer's specifications and instructions for design and installation of walls.
- Pre-cast concrete block walls require a solid, level foundation, with approximately 15 centimetre of granular material for drainage.
- Rolled filter cloth placed between blocks will help stop fine-grained products from migrating through the corral walls.
- Poured concrete floors or pre-cast concrete slabs can protect products from contamination by surface materials.

- Camber (arch) the corral floor to facilitate drainage. In exceptionally wet areas, stormwater drainage pipes may have to be laid adjacent to corral walls.
- Walls of three to four layers of blocks are usually sufficient. For higher walls, a qualified engineer should be consulted.
- If backfilling behind the back wall, install sufficient drainage pipe surrounded by drain rock.

Installation

- Prepare the site by levelling the area, cambering the corral floor, compacting any fill material, and preparing any drainage trenches that will not be accessible after construction of the walls.
- Prepare a level and compacted gravel base for the first layer of blocks.
- Lay down four to six base layer blocks.
- Sweep the top of each layer before subsequent layers are laid.
- Place rolled-up filter fabric between blocks on all sides. Duct tape can be used to hold the filter fabric during assembly.
- Lay the second and subsequent layers in a staggered manner, to ensure they fit.

Maintenance

- Inspect for material migrating through wall.
- Where excessive settling has occurred, sections of the wall may have to be re-laid.
- Pressure wash and apply surface treatments as required (algae growth, changed product, etc.).

Sources:

United Lock-Block™ Ltd. URL <<http://unitedlockblock.com/>>, August 2001.