



**CLEVELAND CASCADE® CHUTE
LAFARGE NORTH AMERICA
DAVENPORT, IOWA FACILITY**

PEBCO® worked closely with Black & Veatch in Kansas City and Strudes, Inc., of Quebec to develop a specially designed Mark 1 Cleveland Cascade® Chute for Lafarge North America's Davenport, Iowa facility. This particular chute is loading 250 short tons per hour of finished cement into barges.

This chute features lightweight fiberglass cones with abrasion resistant steel liners, a heavy duty shroud, a cement adapter with material probes and a special dust enclosure attached to the bottom. The Cleveland Cascade® Chute requires minimum maintenance and operates free of product spillage and dust leakage.

Two of the most difficult products to handle are alumina and finished cement. The solution to loading these products is the Cleveland Cascade® Chute. This design chute has successfully handled a diverse range of dry bulk solids from finished cement and alumina to calcined petroleum coke, calcined lime, wheat, soda ash, potash, phosphate, lead oxide, etc.

The truncated, oppositely-inclined cones, supported by straps and covered by a wind shroud, enable material to be loaded in mass flow at low velocity. In this way, the bulk particles remain tightly packed together; thereby minimizing the release of small dust particles. Operating on the principle of mass flow at low velocity, dust emission is minimized without recourse to secondary extraction systems, while degradation and segregation are considerably reduced. This patented chute has applications in ship, barge, truck, railcar, and silo loading as well as conveyor-to-conveyor transfer.

PEBCO® Inc. is the owner of the North American Patent for the Cleveland Cascade® Chute and is widely recognized as an innovator in the loading of bulk materials. PEBCO® purchased the patent rights from Cleveland Potash of England to manufacture and sell the Cleveland Cascade® Chute in North and South America.

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