



CLEVELAND CASCADE® CHUTE

DUAL CASCADE® CHUTES AT LAFARGE/JOPPA

The CLEVELAND CASCADE® Chute has enabled Lafarge Corporation in Grand Chain, Illinois to successfully load finished cement into barges within EPA guidelines.

Lafarge personnel visited chute manufacturers in North America and Internationally. Innovation within Lafarge has kept Lafarge competitive on the world-wide cement market.

The system at Lafarge/Joppa features a dual Cascade® Chute arrangement. The finished cement discharges from the weigh bin – onto dual airslides – to our dual Cascade® Chute arrangement – into open top barges. Each chute handles 300 tons per hour – loading 600 tons per hour into the barge. The Cascade® Chute system includes dual material probes, load cell system, pneumatic & electric hose reels, and special adapter cement skirts.

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.

The solution to the loading of cement with the Cascade® Chute culminates a multi-year effort by PEBCO® and the chute inventors – Steve Maxwell and Ian Barnard. According to Mr. Maxwell, the two most difficult products to handle are alumina and finished cement. The Cascade® 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.

PEBCO® Incorporated of Paducah, Kentucky has entered into an agreement with Cleveland Potash of England to manufacture and sell the CLEVELAND CASCADE® Chute in North and South America. As part of this agreement, PEBCO® has purchased all the patent rights to the CLEVELAND CASCADE® Chute in these territories.

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