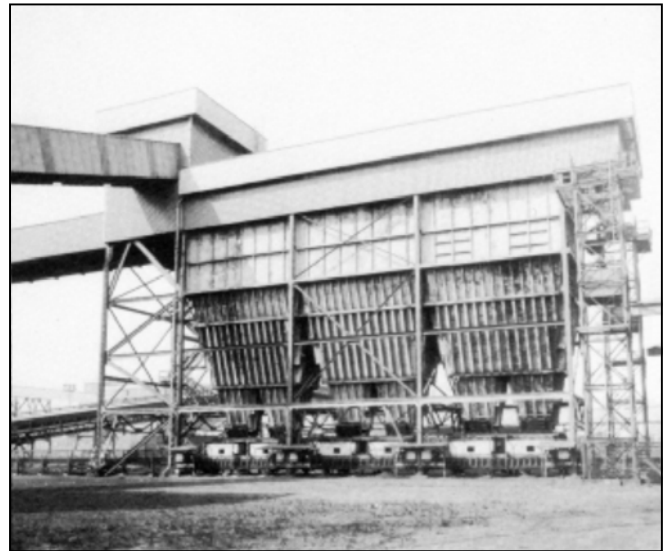
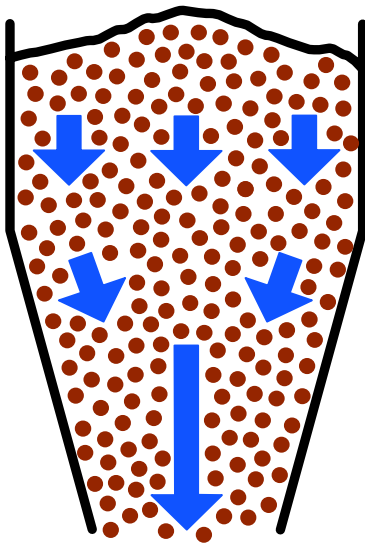


Design of Bunkers and Silos



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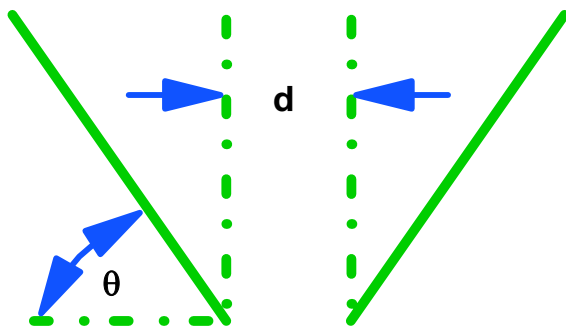
Bunkers are often a major trouble-spot in bulk solids handling plants - bulk solids tend to stick to the walls and arch over the outlet, resulting in "no flow". Research initiated in the USA by Dr. A. W. Jenike and extended by Corus's Teesside Technology Centre nowadays enables bunkers to be designed to give "Mass Flow".



MASS FLOW BUNKERS AT REDCAR

Mass flow means movement of bulk solids at the walls as well as in the central core.

For the past 25 years Teesside Technology Centre have been operating a Bunker Design Advisory Service.



By carrying-out shear cell tests on samples of the bulk solid, numerical values can be obtained for the two key dimensions needed to give mass flow, namely:- outlet width "d" wall slope "q"

WE CAN OFFER:

- A service for designing mass flow bunkers and silos based on Jenike shear cell testing.
- Unrivalled experience in the design of large bunkers and silos. We have designed bunkers for all Corus works and for steelplants and other industries throughout the world.
- Experience in designing bunkers for iron ore, sintered ore, pellets, coal, coke, breeze, limestone, mill scale, flue dust, slag, etc.
- Advice on wear-resistant wall lining materials, pressures on bunker walls and downloads on extractive feeders.
- Advice on ways of improving the flow from existing, badly designed bunkers.