



VORTEX AGGREGATE GATE HANDLING ROOFING GRANULES

Customer: A manufacturer of fiberglass and asphalt shingles

Material: Roofing granules

Product: Shingles

Application: Employees manually adjust slide gate valves located at the bottom of individual product bins. The flow of the different colored material segregated in each bin is thus metered onto a belt conveyor for processing.

Challenge: Locate a slide gate that will withstand the abrasive material being handled and allow product to be metered automatically.

Results:

Eighteen special A14-AR-X Vortex Aggregate Gates solved both problems. Each gate was manufactured with a special “V” notched blade. The opening in the notched blade matches a special “diamond shape” inlet transition. The resulting shape of the matching patterns makes it easier to calibrate the metering of material as the blade opens and closes.

Additionally, the blades were constructed of 3/8” thick, abrasion-resistant plate to address material abrasiveness.

The gates were installed in the fall of 2003. Labor savings during the first year almost paid for the cost of the Vortex gates.

