

Health and Safety in Relationship to Bulk Material Flow Liners

After one of these two events has occurred, the operator or production personnel take to extreme measures to relieve flow. These include but are not limited to: sledgehammers on the side of the bin (this results in bin rash), jackhammers and in extreme cases dynamite. These methods for unclogging are extremely harmful to the bin and warp the bin into a shape that is contradictory to the flow of the bulk materials. This creates ledges and exposed rust that creates areas where bulk materials will build up. There are also the health and safety factors to consider when using these methods. Personnel could injure themselves when swinging a heavy sledgehammer overhead or handling a jackhammer on the side of a bin or hopper. This also reduces the integrity of the bin/hopper and could lead to a structural failure.

Other automated methods for encouraging flow are air cannons and vibrators. Both methods are extremely noisy and costly to run. These methods also don't create mass flow in the bin which is essential for a first in first out methodology and can still have clumping issues in the bin.

When a bin is lined with a "Smooth Move" polymer lining system there is no need for all these potentially unsafe and costly alternatives for improving flow. Our liners promote production efficiencies, reduce ongoing costs, noise reduction as well as a safer and happier workforce. It also has nearly zero percent moisture absorption, so materials don't stick to the liner even in freezing temperatures or in humid weather. Lastly, these liners are crosslinked with alternate materials to help them handle the toughest conditions and/or higher temperatures.

Plastruct has 20+ years of combined technical and practical knowledge and experience solving this problem for customers across many industries associated with bulk material handling, including aggregates, grains, forestry and wood processing, transportation, construction and mining. From the engineering to fabrication to shipping we partner with you every step of the way to ensure you receive the best value for your investment and achieve peak efficiency. We have designed and fabricated kits around the globe. We also offer liner installations to ensure that your investment is installed to the highest standards.

