



INDUSTRIAL PROCESS PLANT WATER RECYCLING

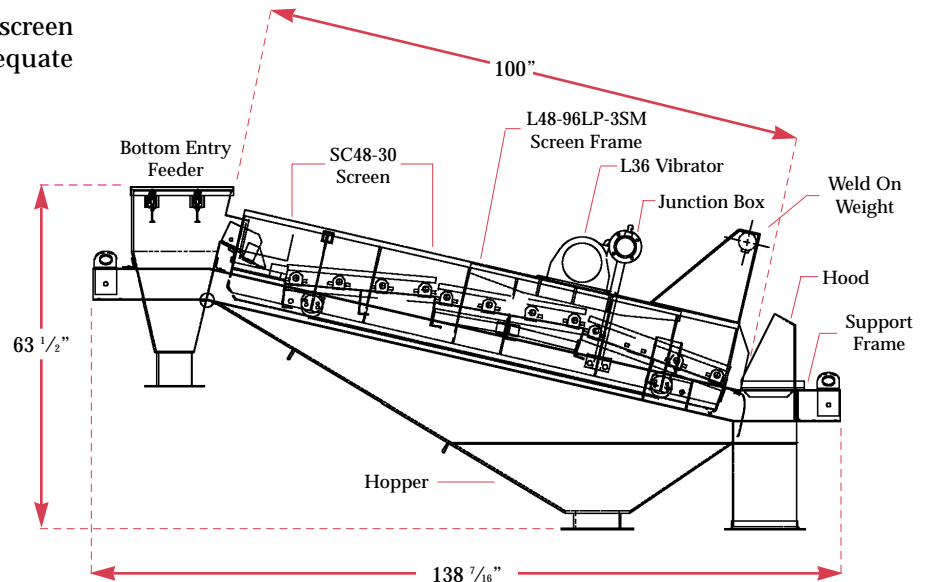
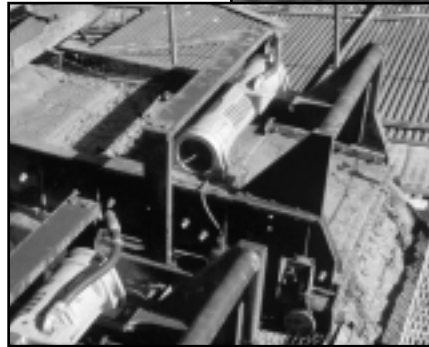
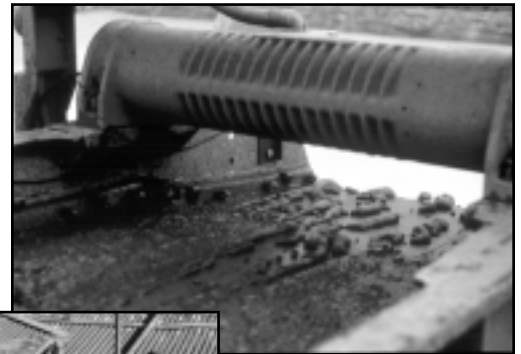
OBJECTIVE

In order to meet EPA waste water regulations, a manufacturer of roofing products installed two (2) Derrick model L48-90LP-3S "Low Profile" screening machines. Each Low Profile handles a feed rate of approximately 150-200 U.S. G.P.M. These machines enable all process plant water to be recycled, eliminating any effluent discharge into the environment. To assure continuous plant operation, the process water from the Derrick screen undersize must contain minimal +270 mesh particulate. Presence of any +270 mesh particles will plug secondary downstream treatment filters.

Wet 270 mesh sizing is achieved through use of patented special 2.5 inch perforated plate screen cloth design. For ease of screen cloth removal and installation, Ramp-Lok spring bolt tensioning assemblies were used.

The Ramp-Lok bolt assemblies reduce screen installation time and also provide adequate tensioning capabilities required when using Derrick's perforated plate screen cloth.

Presence of finely ground silica and unexpanded perlite make this liquid slurry very abrasive. Therefore, all potential wear surfaces are urethane spray coated. Initial laboratory testing confirmed usage of the model "L" 1800 RPM motor for improved fluid throughput.



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