



# Cost Savings Using Derrick High Open Area Urethane Screen Surfaces

## HISTORY

Currently multiple Derrick Model K36-120A-3S screening machines are classifying a dry composite  $\frac{3}{8}$ " x 0 mixture of garnet and wollastonite. In 1953, Derrick screening machines were originally installed at this multi-faceted process facility that operates 24 hours per day, seven (7) days a week. In order to obtain high capacities and perform reliably in an extremely dusty environment, each machine was equipped with a TENV, 3600 RPM, high speed, low amplitude, Derrick Model "K" vibrating motor.

## PROCESS CONSIDERATIONS

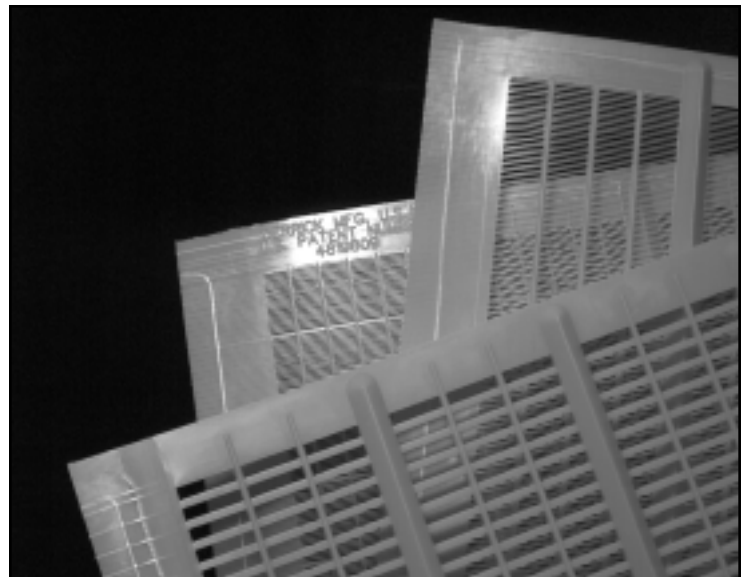
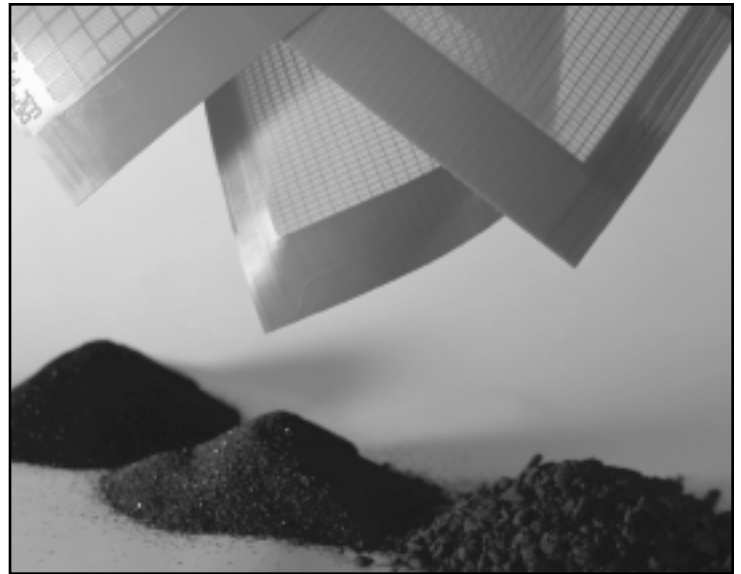
This composite mixture of highly abrasive garnet also exhibited severe blinding tendencies due to the needle-like shape of wollastonite. Rectangular, 40 mesh wire screen cloth was used. Longevity of the wire mesh screen cloths was 7-14 days under normal operation.

## COST SAVINGS

Derrick engineers created an anti-blinding, abrasive resistant, 40 mesh urethane panel which lasted 27 months. While the initial cost of urethane surfaces was more expensive, overall operational cost was much less. Actual urethane screen cost was calculated to be 15 times less expensive than that of comparable wire mesh. Included as an added benefit all maintenance cost savings. Due to these substantial cost savings, all Derrick units in operation at this facility now utilize urethane screens.

## URETHANE ADVANTAGE

A wide variety of urethane screen surfaces are manufactured exclusively for Derrick equipment for both wet and dry screening applications. Derrick Corporation is dedicated to complete in-house and manufacture of all aspects of Derrick screening equipment. This innovative commitment to integrated technology enables Derrick to manufacture high open area urethane screen surfaces at specifications previously thought to be unattainable.



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