

Individual Plant Process Improvement

Field Cure Testing

Stands

Description

Stands developed to hold and protect concrete test cylinders being cured in the field with the products. Designed to be portable and adjustable to get the cylinders where they will cure and best match the products they represent. These stands also include add on cages to store and protect temperature data loggers for tracking curing temperatures

Project Initiation

In our plant we do multiple sets of field cured cylinders every day, often up to 8 sets when doing DOT work. We needed a way to move our cylinders close to the product it represents wherever that may be without being in the way of production. We also needed a flat and level surface to place these cylinders on while they are still curing to ensure squareness of the samples, and to protect them from being tipped over or shifted during production.

Project Benefits

These stands benefit quality in a variety of ways, one of the biggest ways is their adjustable designs, we are able to utilize the adjusting stands to bring the samples to the product. If the product is 3' or 6' off the ground, common in wetcast, the stands can extend to that height instead of sitting on a cart or bucket below. If a piece is poured flat on a casting deck, the stand can be removed and still hold and protect the cylinders. Another way these stands benefit quality is by ensuring that the cylinders are protected from being knocked over and destroyed, or even from being knocked lopsided and causing an uneven surface that will definitely affect strength testing accuracy. The curing logger holders also ensure that we have good temperature data to help evaluate our strengths and curing effectiveness.

