

LEAN SAFETY BEST KNOWN METHODS

Abstract

The Safe Build Alliance is working to gather Best Known Methods in Lean that benefit the construction project. The benefit could enhance safety, efficiency, or quality. Please consider those activities that are conducted by multiple trades, ergonomic innovations, housekeeping best practices or anything that eliminates waste. We are looking for lean tools and actual activities that can be shared throughout the Safe Build Alliance Construction Community.

Remember, **Waste** is:

Defects – anything that created re-work

Overproduction – building more than is ready to be installed resulting in storage and/or housekeeping issues

Waiting – wasted time waiting for the next trade, waiting for late deliveries, etc.

Non-Utilized Talent – Underutilizing peoples' skills; light duty work due to an injury

Transportation – moving anything more than once before it becomes work in place

Inventory – extra storage of anything, storing concrete formwork or similar materials after completion

Motion – unnecessary movement of people, taking too many steps to distribute something that can be distributed via use of material handling equipment, etc.

Extra-processing – Higher quality than required

Please submit your Lean BKM's to

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BKM: Shaft Blockout Protection

How does it work?

Engineered shaft hole-covered decks are installed before the concrete pour and built in place. The decks act as the edge form at the shaft and eliminates the extra step of stripping the shafts until such time as the shafts need to be worked. This method eliminates the fall hazards associated with shafts.

How does this benefit the project?

Fall hazards associated with open shafts on each level are eliminated before they exist. The shafts stay covered eliminating the need to install and maintain guardrails for the duration of the concrete work.

Why is this a Lean Method?

Instead of forming a blockout for the shaft, then having to come back after the deck has been poured to install guardrails, the shaft is protected before the concrete has been poured and the formwork stripped. The value of this method is the elimination of the fall hazard created from the open shaft while stripping the deck and also eliminates the need to strip the edge form at the shaft and install a secondary fall protection system. The shaft protection stays in place until the shaft needs to be opened and the shaft work begins.

The General Contractor realizes a substantial value in manpower installing and maintain guardrails for numerous weeks/months

Please attach or include photos of the before & after









