

## Smart Masonry Clean-Out System

**What the innovation is:**

A new and vastly improved system used to form clean-out covers.

**Why is it innovative:**

Replaces an old and antiquated method of fastening clean-out covers to the masonry wall. The Smart Masonry Clean-out system uses a clear transparent window that allows you to visibly monitor grout flow, virtually eliminating the problem of unfilled or honeycomb cells. By being able to monitor grout flow during a grout pour, any blockage in the cells can be identified and corrected before continuing on with the grout pour. With plywood covers, voids in a masonry wall are only identified after the removal of the plywood covers and are typically then covered up by packing the cell with mortar and leaving the cells above the clean-out block still void of grout. To fix voids after the fact can be extremely expensive.

This new system saves time/money, eliminates costly blow-outs that require chiseling and grinding (costly punch out), causes no damage to the face of the block, can be installed in advance of the inspection allowing for readiness to pour grout immediately after inspection, can be installed and removed in seconds and is corrosion resistant. The transparent window attaches to the masonry wall via a unique and patented T-Bolt and Nut. Both the transparent window and nut are re-usable. With this new system the mason contractor can deliver a quality product (properly grouted/reinforced masonry walls) that the engineer can sign off on and ultimately to the owner who after all, has paid for a quality product.

**What it changed or replaced:**

Prior to this invention, there were really only two ways to fasten clean-out covers to the masonry wall – by nailing plywood to the masonry wall or by using tie wire and plywood. Neither of these old methods allows for monitoring of grout flow during the grout pour. The cost alone, to cut the plywood, to nail the plywood to the masonry wall and to later remove all those nails, far exceeds the cost of the Smart Masonry Clean-Out System.

**Where and when it originated:**

Designed by a former mason contractor (Randy Jensen) from California, an area of the country where reinforced masonry is prevalent. After securing a patent, Randy went on to manufacture the Smart Masonry Clean-Out System approximately 3 years ago.

**Where has the product been used:-**

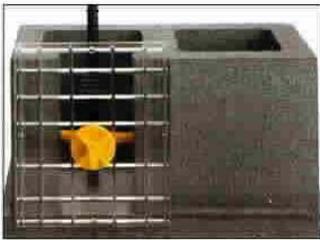
Has been used all over the country. It is anticipated that over time, most contractors will choose the Smart Masonry Clean-Out System over the plywood method of forming clean-out covers, thus making the old method obsolete. Also, besides clean-outs, there has been some interest in using the T-Bolt as an aid to installing embeds in masonry walls.

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## Smart Masonry Products, Inc.

Introducing the *Smart Masonry Clean-Out System*, a revolutionary system used to form Clean-Out Covers for *High Lift grouting* and consisting of a "T-Bolt", a re-usable "Nut" and a re-usable transparent "Window". The "T-Bolt" and "Nut" are made from hard ABS plastic. The transparent "Window" clean-out cover is made of polycarbonate, an extremely durable material commonly used in jet fighter canopies. While the "Nut" and "Window" are *re-usable*, the exposed portion of the "T-Bolt" easily breaks off after removal of the "Nut" and "Window" to provide a fast, clean, professional and economical means of forming reinforced masonry clean-out covers.

### Benefits of the Smart Masonry Clean-Out System



Grout flow can be visibly monitored through the transparent "Window", virtually eliminating the problem of unfilled or honeycomb cells.



Contractors can spend thousands of dollars fixing voids after the removal of plywood covers.

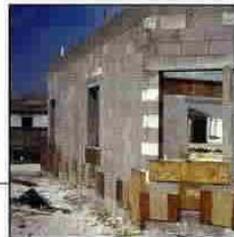


Causes no damage to the face of the block and requires no patching of block as with the plywood/nailing method of forming clean-out covers.

Eliminates costly blow-outs that require chiseling and grinding.



**Adds to your professional image.**  
The Smart Masonry Clean-Out System when installed, demonstrates the professionalism expected by engineers, architects, general contractors and especially inspectors.



Plywood and hammer cut inspection holes lead to excessive waste and cleanup.

- **Advanced Placement** – allows for inspection through the transparent "Window" and readiness to pour immediately after inspection. No need to rush around nailing plywood over inspection holes.
- **Quick Installation** – can be installed and removed in seconds, vastly reducing labor costs.
- **Corrosion Resistant** – made from strong ABS plastic instead of metal, removing concern for corrosion of exposed fasteners.

*"We have switched to the Smart Masonry Clean-Out System because it's less expensive, faster and safer than plywood and nails. We no longer worry about unfilled cells, blow-outs or punch-out with the new system".*

— Gary Jones, President, Coastal Masonry (One of the largest masonry companies in the Southeastern U.S.)