BOOOM HERE COMES THE INNOVSTALLATION*

The building industry of today is always aiming for a faster, and more economical way of producing our societys schools, hospitals, homes, business premises and whatever else that can be housed in a building. The industry is not well known for its ability to implement new innovations, but rather known for its old fashioned thinking and ways of not wanting to work with the newest products and methods.

Imagine beeing a carpenter working day in and day out with installation of plasterboard. Your boss wants the installation to go fast to make sure the timetable is maintained. You want to work in an environment that is both good for your body and good for your employers economy as well. There is an obvious collision there. Work environment and quick montage is usually not the describing words for the same thing. But why not? Why can not the carpenter and his employer both gain from a quick and economical way of creating indoor spaces with the good soundproofing and fireproofing qualities that comes with plaster.

BILD (bloggbild.jpg)

Plasterboard is used in construction worldwide. The expected area of installed plasterboard internationally in 2015 is 10 billion square meters (REFERENS 1). The approximate value of installed plasterboard in Sweden only is 200-300 millon swedish crowns (REFERENS 2). This shows a big international and national market, and need for new technique. This also means that the problem is well known, and that there is a lot of different solutions to the problem on the market and on the drawing table.

The installation today is done almost exclusively by screwing the plasterboard to the studs in the wall. This is a time consuming operation that needs approximately 65 screws in each plasterboard. This also means that a lot of work is done above shoulder height and below the waistline. This can be related to one of the seven wastes that Taiichi Ohno, an Toyota employee working with the lean theory, recognized. The related waste is unnecessary movement.

We have located three different ways of changing the montage of plasterboard. By altering the stud, the plasterboard itself or by changing the way of attaching the board to the stud. If you alter the stud, the positive changes to the operation disappears when two layers of plaster is needed, and you are forced to use the old way of installation on the second layer. When you alter the plasterboard the board inevitably gets less flexible, especially if you alter the edges of the board. This means that the montage around windows and doors for example may complicate the process. This is why we have choosen to work with the attachment methods for the plasterboard installation. We believe that this approach is an fairely easy way of changing the methods of plasterboard installation by the means of no change in the board itself and therefore no change in the logistic scheme for the builder in those means. We believe that the chance of a successful implementation is depending on an easy cross over from todays methods.

We strongly believe that solutions to these needs will gain both employers and employees in the building industry, and will work for a healtier and more economical construction process. The need is not new, it is rather well known, but still it is a need that deserves a proper investigation and a proper solution.

*innovstalation is a merge of the two words innovation and installation

REFERENSER

1: http://www.prweb.com/releases/drywall/fire_moisture_resistant/prweb3547494.htm
2: http://www.reportlinker.com/p089429-summary/World-Drywall-and-Building-Plasters.html