



## Cat5+ Internal Wall System

The internal walls can be built using a smaller “Grey block” 5x8x16 which is the internal cell system of the 8x8x16 block and a 5x8x16 “Black block” which is a smaller version of the 8x8x16 black block used in the external wall system.

The benefit of using this system for internal walls compared to wood/metal studs and then a sheetrock system is that if the structure gets flooded it will dry and will not grow mold. The need for skilled trades are minimized. Electric and water runs are achieved the same way as the external wall system down the internal cells of the block. Rebar is used less often vertically as these walls are generally not load bearing. Where an internal wall requires it to be load bearing then the external wall system block is used.



### Cat5+ Wall System Construction Process

Architects and engineers can easily retro-fit their designs to use all, or part of, the Cat5+ Building System. Once this is done the slab is poured and or foundation and it is now time to erect the dwelling using the Cat5+ System.

The first course of the Cat5+ Wall System is the most important course, if this course is “off” alignment it can affect the construction process of the rest of your building. To insure a perfectly plum first course, mortar is used. The first course of the Cat5+WallSystem is completely placed in mortar. The building is then erected using the plans provided by the architecture providing guidance to what blocks to use, and where to use them. The dwelling becomes a big “**Leg**o” project. For this reason, it is important to have engineers and architects involved from the first step of the project.

When completed the result is a concrete “building shell” that has superior strength both vertically and horizontally as well as creating extremely high insulation value (R30+). The product is also extremely cost

competitive, eliminating the use of drywall, furring of interior walls, and the electrical conduit, plumbing and insulation is already in place. An additional and significant benefit of the Cat5+ System is the shell can be erected in less than half the time of a conventional building method which doesn't include the insulation, plumbing and electrical savings.

The Cat5+ System will revolutionize the current the thinking pertaining to construction. Benefits of the Cat5+ System, such as dry stacking and incredible structural and insulation values, unequivocally evidence it is the superior wall system, taking less time to construct while providing significant financial savings over any other wall system available today.

When combined with a Cat5+ concrete roof and or floor structure **an impenetrable fortress of reinforced concrete has been built**, leaving only the quality of the window and door systems as a variable.