

THE DIRTT APPROACH

SOLUTIONS THAT REFLECT THE NEEDS OF THE CLIENT

The DIRTT approach is less a modular wall system than it is an adaptive approach to rapid construction. At the core of the solution is a set of simple yet robust interface elements that support reconfiguration, extreme levels of customization, and distributed manufacturing. This approach is key in ensuring the successful installation of a custom solution in a short period of time.

The DIRTT solution consists of multiple configurable layers, primarily structural, aesthetic, technological, and application specific. Each of these is comprised of several sub-modular layers. It is through this multi-layered approach that DIRTT can support a high velocity of install and manufacturing, simply because multiple processes and activities can be done in parallel in multiple locations. This includes DIRTT's manufacturing locations and those of our and a clients' vendors as well.

Beyond the "wall" system itself, DIRTT Modular Electric and Data shares the same approach to modularity and applies it to power and communication distribution. This solution is a "plug and play" system, and brings a significant level of freedom to the DIRTT environment and the client solution as a whole. There are no practical boundaries to this; the solution provides adaptability, speed of install, material efficiency, lower cost, and sustainability to floor, ceiling, and drywall distribution of power as well.





There are also a series of interfaces that are not about the “wall” at all. Within the system are patented elements that allow work surfaces, overheads, displays, and any other object to be mounted seamlessly off the surface, without doing damage. In reconfiguration as in origin, there are no constraints. Simultaneously, the solution is also capable of complete integration of elements within the wall, such as the seamless embedding of displays within the wall cavity itself.

All of this is only possible through the use of ICE[®] software, which is an end-to-end application that ensures the precision and quality of the manufacturing process. Reconfigurations are also achieved with clarity. An extension of ICE called ICEcycle[™] retains all the information regarding content of the original install, and allows the client to design new environments using the palette of elements already graphically displayed in inventory.

The design approach of the DIRTT solution allows for the creation of completely new and unique configurations. There is full and complete freedom of design across aesthetic, functional, and technological boundaries. Fundamentally, DIRTT is committed to provide solutions that reflect the needs of the client in every way, as strongly at original install as through the passage of time. The downstream agility of the solutions is just one of the profoundly strategic benefits of the DIRTT approach.





**MOVABLE
PREFAB WALLS**

- conventional construction prices always go up and change during job
- change order ease
- lower labor \$
- reconfiguration savings negate initial cost
- may have beneficial tax implications
- ownership of assets

- 1/3 faster move-in
- 300% faster reconfigurations

- fewer materials
- less waste
- controlled recycling
- less transportation pollution and energy
- consistent quality = fewer redo
- walls go up and down - negates reconfiguration waste

- set price
- warranty
- cleaner and quieter install and reconfiguration

DIRTT

- parametric - no standard sizes - pay for exactly what you use and want
- universal support element keeps legacy furniture in use
- save on operational costs and expensive trades due to easy access and plug & play infrastructure
- pay for fewer extra elements for asset management
- use the walls to support A/V and access it for maintenance
- source glass locally for best price and added community stimulus

- Walls are easily accessible for inspection and changes or adds without extra time
- plug & play cabling for fast installation and changes
- create precise module size for more efficient reconfigurations

- precise module size means fewer extra pieces produced
- integration w. any base building helps keep existing and heritage buildings in use
- add as much daylighting as needed
- use legacy ff&e
- water-based finishes
- large and small changes - not just moving walls around

- completely unique, high-performance space
- integrates with technology and base building
- horizontal support means furniture can hang anywhere along wall initially and post-reconfig

**DIRTT
+
ICE* & ICEberg**

- explore design choices w. parallel price updating
- no mock up costs
- compare apples-to-apples costs
- have full understanding of entire project
- ICEcycle protects asset management, ensuring all viable parts and pieces are used during reconfigurations

- modifications instantly update throughout
- automatic validation design-to-production
- faster client sign-off with more complete understanding
- shop-drawings in days, not weeks
- no time lost translating drawing into SKUs
- Faster reconfigs

- no human error translating design to mfg. means no do-overs
- no mock ups
- show stakeholders exact amount of waste and energy saved vs. conventional
- create the best module size for the space
- with ICEcycle reconfigurations never miss usable elements

- painless, fast mass-customization
- design team keeps control
- client confident in decisions
- all stakeholders are kept engaged and informed via 3D graphical fly-throughs
- share good news with shareholders