



## PRODUCT SPECIFICATIONS

### SECTION 1 - GENERAL

#### 1.01 OVERALL

Those specifications are based on the wall system designed and manufactured by Dynamic Hive, Inc., Columbia, MD. Our system is designed to provide the best tool to configure or re-configure office and industrial open space environments.

#### 1.02 DESCRIPTION

##### *System Type*

dHive system is a relocatable adjustable height wall partition that is non-progressive and not unitized (the system is not “pre-assembled panel” type).

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##### *Flexibility*

This assembly method shall allow a faster installation pace as well as the ability to deeply modify (easy re-fit) part or all of the installation, even after the project has been completed.

A solid panel can become a glass panel (simple or double) or a glass panel can become a solid panel in a few minutes and with minor modification to the aluminum structure.

In addition, a door can be fitted in the middle of an existing dHive system, after the previous installation, without having to remove any other part of the system but the panels where the door will be located.

All changes shall cost a fraction of the initial installation and are easy to fit in an existing installation.

### *Acoustics*

Depending on the insulation options selected, dHive system achieves minimum sound transfer performances from STC 39 and STC 45 with solid panels and STC 31 to STC 45 with glass panels. The performances depicted above have been certified by an independent test laboratory.

### *Adjustability*

When adjusted on site, the framing will always fit the field requirements. Panels shall provide similar ability to be modified on site and fit the needs stemming from varying facility requirement.

After the first installation, dHive system shall provide minimal vertical adjustability of ¾”.

The full system is available curved, bent or faceted, including the frame and glass.

### *Applications*

dHive system perfectly operates for front and demising walls, interior surroundings (industrial shelters or bubble meeting rooms) and corridors.

The systems fits floor-to-ceiling installations (up to 20 feet high) and partial height installation (so-called dHive partitions).

### *Wiring applications*

dHive system provides horizontal or vertical wiring baseboards so that to fit all possible and required electrical connections as well as permanent access to the wiring.

Cabling can pass either through our technical aluminum baseboards or directly through the frame/panels, enabling cabling to come from the floor/ceiling/or other.

Connections can be fitted onto our technical baseboard or, for more convenience, directly integrated into a panel.

### *Others*

All the system is available “half profiled”, which means we can fit our system onto an existing drywall, so that to maintain the design unity of an interior installation: all the finishes (panels) will be the same, from the new relocatable system to the previously existing drywalls.

## **1.03 REFERENCES**

1. ASTM E90-09 “Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions.”
2. ASTM E72-05 “Traverse load test.”
3. ASTM E84 “Standard Method of Test for Surface Characteristics of Building Materials.”
4. ANSI / BIFMA X5.6

## **1.04 SUBMITTALS**

Upon receipt of the floor plans and installation requirements, dHive will provide:

a. All necessary product details and independent laboratory tests, to make sure that dHive system complies with the project requirements.

The responsible of the project (architect, contractor..) shall provide an indication of approval to dHive stating that we comply with the performance specified, before production starts.

b. dHive will generate computer assisted drawings of the installation through its CAD software: renderings can be either 3D or 2D.

## **1.05 DELIVERY, STORAGE AND HANDLING**

a. dHive takes measures of protection of all components during transit (cartooned, plastic wrapped...). Standard terms are F.O.B incoterm, transferring the risk of loss or damage to buyer as soon as the components have been delivered to carrier.

Upon bid, any type of transportation and protection can be used.

b. In the event that other terms are agreed to by dHive, a complete inspection of the system components must be performed upon delivery by an authorized representative of the customer. A notice of any freight damage must be notified to dHive within one (1) day of delivery.

Replacement or repair costs of the damaged components will be at dHive's or customer charge, depending on the terms and respect of the procedures.

b. Storage and Protection:

It is dHive responsibility to define the storage and protection measures to be ensures on site by the general contractor taking care of the installation.

In case the shipment is delayed by the buyer, dHive might place the system components under storage at customer's risk and will bill the customer as if the goods had been deliver as per the initial contract.

## **1.06 QUALITY ASSURANCE**

a. dHive components and system shall be manufactured and installed according to dHive standards, so that to maintain any warranties on the product.

b. Installers shall be approved by the manufacturer and if no approved installers are available, installation should be supervised by dHive's trained personnel.

c. Field measurements might be taken prior to preparation of computer assisted drawings and fabrication to improve accuracy and help the installation work.

## **1.07 WARRANTY and MAINTENANCE**

- a. dHive provide a five (5) year warranty on aluminum profiles, accessories and finishes. Extension programs are available.
- b. Please contact dHive services to ensure any service or maintenance is realized properly.

## **SECTION 2 - PRODUCT**

### **2.01. MANUFACTURER**

Dynamic Hive, Inc.  
10001 Windstream Dr 606  
Columbia, MD 21044

### **2.02 MATERIALS AND SYSTEM SPECIFICATIONS**

- a. The aluminum frame used as a base for the system is 3 ¼” thick. It is extruded aluminum, 6063-T6.

The aluminum profiles can be anodized (standard clear or bronze), powder coated (every RAL) or veneer wrapped.

All profiles are available up to 20 feet long.

- b. The full system is available curved, bent or faceted, including the frame or glass.
- c. Our intelligent corner pole allows every angle and 2, 3 or 4 way starts.
- d. The system is secured to floors and ceilings with Erico clips, tiny perforating screws or double face tape.

### **2.03 FINISHES SPECIFICATIONS: Solid Panels and Glass**

dHive provides with an extensive selection of efficient and design panels that will fit the project requirements.

- a. All kinds of resin, gypsum, PVC, wood, mdf or marker boards fit dHive system. They can be laminated with paper, vinyl, fabric and veneer, made or not from recycled materials.

The standard width is 48” , the standard heights are 10’ and 12’ and the panel’s thickness ranges from 3/16” to ½”. Custom made panels can be ordered.

- b. When panels are fitted “onto” the system instead on “into”, the thickness can be raised up to 1”. Fire rated panel might be thicker than standard panels.

- c. Single or double glazed, butt-glass, tempered or laminated, with thicknesses ranging from ¼” to 7/16”. Glass dimensions can be custom cut but are usually similar to other panels.
- d. Venetian blinds can be inserted between the glass lites (dHive exclusivity). They are operated with a command button (manual or electrical) integrated on the aluminum frame next to the blinds.

## **2.04 DOOR FRAME AND DOORS**

- a. Doors can be Pivot or sliding.

Solid, core or glazed (with or without aluminum frame) are part of the possibilities.

Our doors come in the following standard thickness: 1 ¾”

- b. Our door frames are made of aluminum and include an acoustic seal. They are reversible, allowing to choose on site if the door opens on the right or on the left.

Door frames do not need to be mortised or reinforced.

- c. Our hinges are hidden into the door frame, for a very high-end rendering but also to improve the acoustic performance (perfects the acoustic doors sound reduction). We usually use 3 lift-off hinges per door.

Any type of door lock sets are considered standard.

## **2.05. HARDWARE**

Hardware shall be furnished by the manufacturer to the contractor for the installation

Hardware includes, but not limited to, door seals, acoustic sealants, hinges and door locks.

## **2.06. STANDARD PROJECT RANGE**

- Full height solid
- Full height glazing (single or double)
- Full height butt-glazing (single or double)
- Solid panel with glazing insert
- Glazing with solid transom
- Solid panel with glazed transom insert

## **2.07 ACOUSTICAL AND THERMIC PERFORMANCE**

Depending on the options selected, our system shall have the following STCs, per ASTM E90-09:

Solid wall:       STC 39  
                      or STC 42  
                      or STC 45

Glazed wall:      STC 43 (double glazed)  
                      or STC 45 (double glazed)  
                      or Below STC 43 depending on the glass options

Lower results can be achieved with single glazed products or using different glass thicknesses.

Solid panels are insulated with mineral wool or other techniques insulation materials.

Sealing joints (foam or urethane) are also recommended to perfect the acoustical insulation between the different components.

## **SECTION 3 - EXECUTION**

### **3.01 INSTALLATION**

The main steps to complete a dHive system installation are:

- 1) Install top & bottom U-profile (track)
- 2) Integrate aluminum studs, angles and door frames
- 3) Fit Panels and Electrical
- 4) Fit Glazing
- 5) Finish by Doors and Trims

The system shall be installed without permanent fastenings over finished floor (tile or carpet) and ceiling to remain flexible and allow future changes.

The installation must be realized in accordance with approved shop drawings.

⇒ Most of the system is snapped up, almost no screw is needed.

### **3.02 QUALITY INSPECTION**

a. Before the installation is initiated, the contractor shall be responsible for verifying that the components delivered effectively fit the requirements of the site (ceiling height...), making sure that nothing will affect the proper functions of the system then installed.

b. After the installation has been performed, the contractor shall be responsible for verifying if the installation has been properly done and that the system is fully operable.

### **3.03 CLEAN UP**

Upon completion of work, the contractor must remove all of their trash, tools crates and perfectly clean the premises.