



# Rock Wall Panel Installation Guide

## FLAT FRAMES AND WEDGE FRAMES

READ OPERATION AND MAINTENANCE MANUAL BEFORE INSTALLATION AND USE Failure by the user to heed any and all instructions, warnings, and cautions for the correct installation, operation, care, and maintenance may result in serious injury or death.

### Tools and Materials

- Provided by Customer: Pencil , Stud finder, Tape measure, Drill/impact driver, Bit for structural screws. Star-drive bit, Step ladder, Level, 5/16" allen key. Rapid clamp (optional), 1" paddle bit (if flat head fasteners are not available),
  - Structural fasteners to attach ledger to wall SEE TABLE BELOW FOR SPECIFIED STRUCTURAL SCREW BASED ON YOUR WALL TYPE
- Included in purchase: (1) Rock Wall Panel- if purchased with frame- (1) Mounting Frame, (4) 1/4" connector bolts
- Panels are compatible with our [Bolt-on Rock Wall Holds](#) and we do not recommend using our screw-on version with panels
- TIP: Looking for the drill bit to unscrew panel from its frame? [Click here](#)

### Selecting a Support Structure

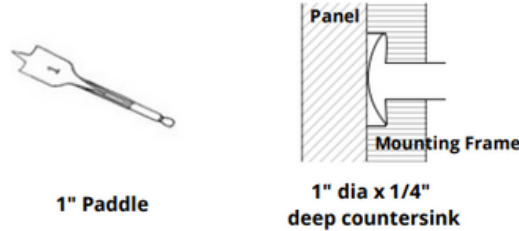
The square climbing panel and mounting frame must attach to a vertical structure such as a metal or wood stud, concrete, or CMU wall. When selecting a location to install the Square Smart Rock Wall Panel always ensure:

- You have the specified fastener for your particular supporting structure. When Attaching to CMU or concrete walls, locate the fasteners evenly spaced along the mounting frame with a minimum of four (4) fasteners per mounting frame.
- The climbing area is free and clear from all obstructions including, but not limited to: furniture, protrusions, structures

OWNER MUST PURCHASE SPECIFIED STRUCTURAL SCREWS FOR THE CORRESPONDING WALL TYPE AND FOLLOW ALL INSTRUCTIONS PROVIDED BY THE VENDOR. SEE CHART BELOW FOR THE FASTENER SPECIFIED FOR YOUR WALL TYPE. BRICK IS NOT AN ACCEPTABLE STRUCTURE TO ATTACH TO.

WALL TYPE TO WHICH PANELS WILL ATTACH	
Concrete	1/4" x 3-1/4" Tapcon (Flat Head) 24" o.c. min
CMU	1/4" x 2-3/4" Tapcon (Flat Head) 24" o.c. min
Wood Studs	SPAX #14 x 4" T-Star Drive Flat-Head Structural Wood-Screws (Flat Head) @ ea stud
Metal Studs	#14 x 4" Tek Screw (Flat Head) @ ea stud

If Flat Head fasteners are not available countersinking of the mounting frame may be required to ensure flush fit of the panel to the mounting frame:



*If you are purchasing panels with no-frame and your contractor is building your frame, they can be cut and trimmed. Panels with frames cannot be trimmed.*

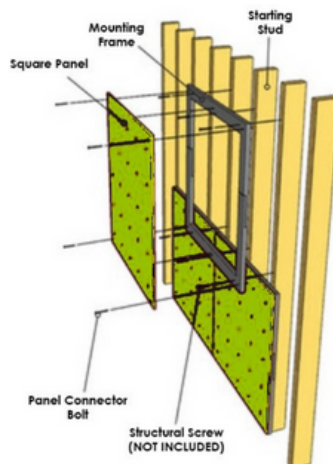
**PROPER ATTACHMENT REQUIRED:** All mounting frames are required to attach two studs minimum with two specified structural screws into the center of each stud. When attaching to concrete or CMU, locate fasteners evenly spaced along the mounting frames with a minimum of four (4) fasteners per mounting frame.

**CENTER OF STUD REQUIRED:** All mounting frames are required to attach to two studs minimum with two specified structural screws into the center of each stud.

## Preparation for Installation

The square climbing panel and mounting frame are required to be mounted with specific fasteners depending on the type of wall structure to which it is attached. Refer to table on front cover to select the specific screw based on your wall type. Strictly adhere to the following procedures when installing climbing panels:

- When attaching the studs to the wall (metal or wood), fasten the mounting frames to studs with the specified structural screw at all points where the mounting frames are required to attach to two studs minimum with two specified structural screws into the center of each stud
- When attaching to CMU or concrete walls, locate fasteners evenly spaced along mounting frame with a minimum of four (4) fasteners per mounting frame
- All fasteners used to attach the mounting frame must be set flush to or slightly recessed below the front face of the mounting frame to ensure the square panel rests flush against the mounting frame
- It is recommended that two people perform the installation - one person to hold the mounting frame or panel while the other fastens it
- If the panels will be installed by only one person, using two sliding-arm rapid-clamps to secure mounting frame together while fastening is recommended
- Never use any component of the square panel as an anchor or belay point
- Never attach panels to anything other than a vertical support structure



## STEP 1: FIND AND MARK WALL STUDS

- Locate all studs within the mounting wall that are located within the area the Square Climbing Panels will be located
  - Use a stud finder
  - Studs are generally spaced 16" on center (from the middle of one stud, to the middle of the next one)
  - Most electrical boxes (switches or outlets) are attached to a stud on one side
  - Studs are also found on either side of a window or door, but their placement is determined by the floor-plans so they won't typically have the 16" spacing
- Use a pencil to mark the center of each stud with a tick mark
- Select your starting stud (stud on which the panel will be centered)
- Determine desired top-of-panel height
- Use a pencil to mark top-of-panel height in the center of the starting stud

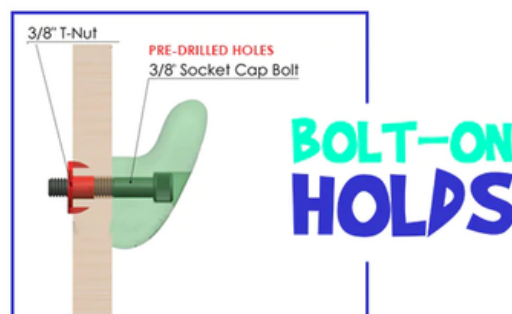
## STEP 2: MOUNT THE FRAME

- Lift a Mounting Frame into position on the wall with exposed insert nuts facing the building wall
- Align the top edge or corner of the Mounting Frame with the stud with the stud marks created in step 1
- If oriented with top and bottom sides parallel with the ground, use the upper 1/4" STARTING STUD PILOT HOLE as a reference for centering
- Use a level to ensure the top edge of the Mounting Frame is level Fasten the Mounting Frame to the starting stud with specified structural screw into the center of the stud.
  - Refer to table above for the specified structural screw
- Locate and mark where any other studs cross the perimeter of the Mounting Frame Fasten the Mounting Frame to each aligning stud with specified structural screws

## STEP 3: MOUNT THE PANEL

- Lift the panel into position on the Mounting Frame
- Insert a connector bolt into one of the top holes and hand tighten into the insert nut located in the Mounting Frame
- Press the panel against the frame firmly so that it is held in position by the single connector bolt
- Fully fasten the Square Panel to the Mounting Frame with the remaining three (3) panel connector bolts at each corner
- Finally, tighten each panel connector bolt so that it fits snugly against the Square Panel surface
- Repeat steps for each additional panel

## STEP 4: Apply Rock Wall Holds



## Square Panel

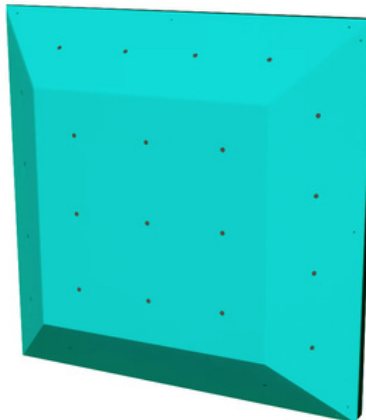
- Each square panel is 42" x 42" and 0.50" thick and weighs approximately 38 lbs.
- Flat frame is 1" thick
- Wedge frame is 8.5" thick
- Maximum weight 270lbs.



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## 3D Square Panels

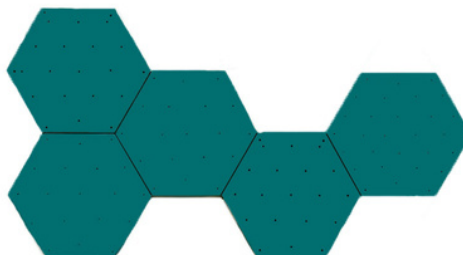
- Each square panel is 42" W x 42" H x 7.25" D and weighs approximately 38 lbs.
- Flat frame is 1" thick
- Wedge frame is 8.5" thick
- Maximum weight 270lbs.
- Requires DIY Ledger Mount



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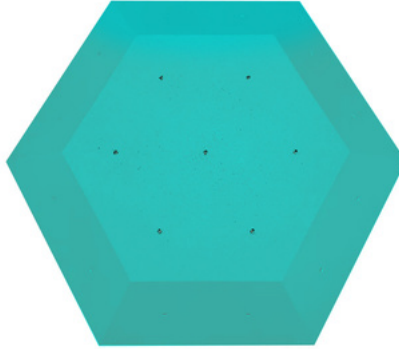
## Hexagon Panels

- Each Hexagon panel is 43.0625" W x 49.75" H x .5" D and weighs approximately 38 lbs.
- Flat frame is 1" thick
- Wedge frame is 8.5" thick
- Maximum weight 270 lbs.



## 3D Hexagon

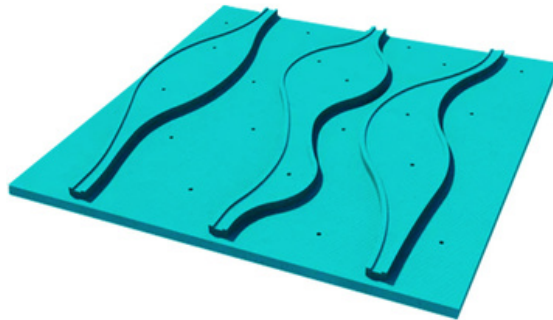
- Each Hexagon panel is 43.0625" W x 49.75" H x 1.5" D and weighs approximately 38 lbs.
- Flat frame is 1" thick
- Wedge frame is 8.5" thick
- Maximum weight 270lbs.



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## Wave Panels

- Each Wave panel is 4'x4' and weighs approximately 50 lbs.
- Made from super durable glass fiber reinforced polymer (GFRP)
- No frame
- Maximum weight 270 lbs.
- Requires DIY Ledger Mount



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## Crystal Panels

- Each Crystal panel is 4'x4' and weighs approximately 50 lbs.
- Made from super durable glass fiber reinforced polymer (GFRP)
- No frame
- Maximum weight 270lbs.
- Requires DIY Ledger Mount



## Bubbles Panel

- Each Bubble panel is 4'x4' and weighs approximately 50 lbs.
- Made from super durable glass fiber reinforced polymer (GFRP)
- No frame
- Maximum weight 270lbs.
- Requires DIY Ledger Mount

