

## Thin Tech® Panels

### Q: How do I cut Thin Tech panels?

**A:** Thin Tech panels can be cut with tin snips, a grinder with metal blade, a table saw with metal blade, or with power snips. Always take proper safety precautions and utilize gloves and safety glasses when cutting the panels.

### Q: Do I need to bend or do any additional work to ensure mechanical bond of mortar to the Thin Tech panel?

**A:** While other metal panel systems require a tab to be pressed down over the top of each brick to create mechanical bond or tie to the mortar, Thin Tech's patented claws (support ties) provide mechanical attachment to the mortar when the joints are completely filled. No additional panel manipulation is required.

### Q: When do I need to use Thin Tech panels with 5/8" "claws" (support ties)?

**A:** The larger 5/8" claws should be used when installing any masonry unit taller than 3-5/8" or thicker than 1-1/4". Thin Tech Panels with 3/8" claws should be used with any masonry unit size up to 3-5/8" tall and not exceeding 1" in thickness.

### Q: How much deflection can the Thin Tech panel tolerate?

**A:** A maximum deflection of L/360 is recommended for out-of-plane deflection of the substrate providing vertical support for the panels.

### Q: How much stagger is needed between panel joints?

**A:** For both metal and wood stud construction panels must begin and end on a stud. Therefore, a 16" (1/3 of a panel) is needed to establish the stagger. This can be achieved using pre-bent corner panels with a 16" leg or trimming panels to 16" or 32" lengths to begin every other row.

## Fasteners

### Q: How many fasteners do I use per panel?

**A:** For typical applications, the ideal spacing for fasteners will utilize the pre-punched holes at 16" horizontally and 8" vertically, resulting in 24 fasteners per panel. A minimum of 16 fasteners (one per sq. ft. of area) is needed per panel.

### Q: What is the pull-out strength of the Thin Tech panel?

**A:** Assuming the use of screws supplied by Glen-Gery—screw pull-out from the testing has shown that pull-through of a single screw (through the panel), exceeds 500 lbs. (ultimate load). Screw pull-out from 18-gauge studs exceeds 390 lbs. while pull-out from wood studs varies by wood type. *Note: These are ultimate loads—proper safety factors must be applied.*

### Q: How do you install Thin Tech shims?

**A:** See Installation Instructions. Thin Tech Shims are only required with the use of the Thin Tech Elite panel.

### Q: How do I attach shims?

**A:** Typically, one fastener is all that is required to hold the shim in place prior to attaching the Thin Tech Elite panel.

### Q: When do I not need a shim at a termination?

**A:** A shim is usually required when the cut vertical edge of the Thin Tech Elite panel is less than 2" from a drainage channel.

### Q: What length of Glen-Gery fasteners should I use?

**A:** Use the table below to determine the minimum fastener length required.

Minimum Fastener Lengths			
Steel Stud Backing		Wood Stud Masonry Backing	
Length	Application	Length	Application
1-1/2"	No insulation	1-1/2"	No insulation or Mortairvent®
3-1/2"	1" or 2" insulation	2-1/4"	1" insulation
5-3/4"	3" or 4" insulation	4-1/2"	1" or 2" insulation

Table assumes use of 5/8" sheathing and a minimum embedment of 1" into wood studs or masonry substrates, or 1/4" (4 threads) penetration of metal studs a minimum of 1/4" (4 threads).

## Thin Tech® Adhesives

### Q: Do we have to use Glen-Gery's adhesive with the Thin Tech system?

**A:** Yes, the adhesive is specifically blended to bond instantly to metal. Also, all testing done for Thin Tech has used the Thin Tech adhesive.

### Q: What is the minimum temperature at which the adhesive can be applied?

**A:** While the manufacturers technical data suggests a working temperature below freezing, we have found that the panel brick and adhesive should be 40 degrees or above for best results and quickest set time.

## THIN TECH ADHESIVES CONTINUED

**Q: Can I apply adhesive in rain or snow?**

**A:** The Thin Tech panels should be clean and dry when applying adhesive.

**Q: What are the storage requirements for the adhesive?**

**A:** Store at temperatures of 20 degrees – 100 degrees Fahrenheit. Shelf life of the adhesive is 2 years.

**Q: Do I have to buy Thin Tech adhesive by the case?**

**A:** Both the standard adhesive and the silicone can be purchased in single cartridge quantities.

**Q: How much adhesive do I apply to each Thin Brick?**

**A:** Apply nickel-size dabs of adhesive to each end on the back of the thin brick. Apply an additional dab of adhesive to the head of corner brick units. Use quarter-size dabs for curved walls.

**Q: When do I need to use silicone adhesive?**

**A:** Silicone adhesive should be used whenever the thickness of the thin brick is greater than 1-1/4", as well as with all cast stone products. Before application of the silicone adhesive, the cast stone units should typically be primed according to manufacturer's recommendations.

## Air Vent

**Q: Do I need the air vent if I am using the Thin Tech Classic panel?**

**A:** Air vents are only recommended with the use of Elite Panels to increase drainage and airflow into the cavity provided by the ribs of panel.

**Q: How do I secure the air vent?**

**A:** The air vent is usually adequately secured by placing two small dabs of adhesive supplied by Glen-Gery at each end and one dab in the middle.

**Q: Where do I use the air vent?**

**A:** Air vent should be installed above all starter angle and flashing locations.

## Glen-Gery Drainage Mat (Mortairvent®)

**Q: When do I use the Glen-Gery Drainage Mat?**

**A:** Glen-Gery Drainage Mat is recommended with Thin Tech Classic panels in exterior applications only.

**Q: How do I install the Mortairvent?**

**A:** Unroll Mortairvent from right to left with the fabric flap at the bottom with the (blue) polymer matrix against the weather resistant membrane and the fabric facing the exterior of the building. Attach with corrosion resistant staple or cap nail every 2 SF (24" x 24" approx.) Unfold the fabric flap and tuck it between the WRB and the (blue) polymer matrix at the first (bottom) course only. Butt the (blue) polymer material together tightly without overlapping and pull the fabric flap over the course below (shingle style) and staple on subsequent courses.

## General

**Q: After installation, how do I clean the Thin Brick on my wall?**

**A:** Cleaning recommendations are available for each of the full and thin brick manufactured by Glen-Gery as well as all mortar provided by Glen-Gery. These same cleaning solutions and procedures can be used when cleaning the completed Thin Tech assembly.

**Q: Can Thin Tech be installed below grade?**

**A:** Thin Tech panels should not be installed below grade. Most adhered veneers (including Thin Tech) must terminate at least 4" above grade and 2" above most paving applications.

**Q: What if studs don't align with panel edges?**

**A:** Panel edges can be cut to end 1/16" short of the center of the stud, so the succeeding panels will align and can be fastened to studs.

**Q: Are movement joints needed with the Thin Tech system?**

**A:** Yes, a 3/8" movement joints are recommended to be spaced at no more than 24' horizontally and at each floor vertically. Panels are to be installed with 1/16" to 1/8" spaces between the panels horizontally without such spacing vertically. Therefore, movement joints are required at each floor. Movement joints are also needed around the perimeter of openings and at junctions/transitions with dissimilar materials. For optimal stress relief, a 1/16" to 1/8" gap between the vertical edges of panels is recommended.

**Q: How do I install a soldier course?**

**A:** To create a soldier course, flatten unneeded rows of support ties that will be behind (but not above and below) the soldier course (two rows for 8" length units) of support ties, and install brick vertically.

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