



## DESIGN ADVISORY

**DA-2021-03**  
**Reduced Insulation Fastening Pattern Over Gypsum Decks**  
**May 6, 2021**

**To: Versico Roofing Systems Independent Sales Representatives, Distributors, and Authorized Contractors**

A reduced insulation fastening pattern has been approved for adhered membrane assemblies over gypsum decks. The reduction in the overall number of fasteners will vary based on each roof's configuration and size, as well as the warranty wind speed. In most cases, a reduction of 33% - 42% can be achieved.

In lieu of the standard fastening density of 1 fastener per 2 ft<sup>2</sup> in the 12'-wide perimeter area, the reduced fastening pattern only requires 1 fastener per 2.6 ft<sup>2</sup>, or 12 fasteners for each 4' x 8' insulation board. This fastening density can be used for projects with warranty wind speeds of 55 or 72 mph.

In the field of the roof, the fastening will vary depending on the wind speed of the warranty.

Warranty wind speed	Fastening rate per ft <sup>2</sup>	Fasteners per 4' x 8' board
55 mph	1 per 4	8
72 mph	1 per 3.2	10

This reduced fastening is intended for projects with gypsum decks when:

1. The building's height is not greater than 50 feet.
2. A minimum pullout value of 300 lbs. is achieved using either Versico Polymer GypTec Fasteners or HP Lite-Deck Fasteners with the appropriate Versico plates.
3. Any of the currently approved insulations/underlayments are specified (except for Versico HP Recovery Board).
4. The duration of the membrane system warranty is 20 years or less.

Please refer to the attached drawing for additional information. A list of currently approved insulations and underlayments can be found in Versico's specifications.

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