

**Mechanical Fasteners for Retro-Fit and the Addition of Insulation to
Tectum™ Roof Deck**

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Tectum Inc. does not recommend the use of toggle bolts. Structural properties and appearance of roof deck is jeopardized by using toggle bolts as they provide a thermal bridge that can cause condensation and wet areas around the bolt.

As an acceptable alternative to toggle bolts, there are a number of fasteners available for fastening rigid insulation to Tectum Roof Deck.

Several manufacturers have developed fasteners for attaching rigid insulation and mechanically attaching membranes to Tectum Roof Decks. Many of the decks, where the fasteners are required, have been in place many years and are being upgraded with insulation and new roofing membranes. Each fastener has advantages or limitations when compared to the others. Some of the areas to consider in selecting the most acceptable fastener on any project are the withdrawal resistance, cost, availability, ease of installation, thermal conductance and equipment required for installation.

The fasteners listed below may be considered for this type of application. For re-roofing old Tectum Roof Decks, any fastener or system that is selected must be field tested to determine the pullout resistance and maximum spacing based on the uplift requirements. This is not an endorsement or recommendation for any of the fasteners listed. Other fasteners not listed could be considered on their performance in tests and field pullouts.

Another type of product used to attach insulation to Tectum Roof Decks is foam adhesive.

The inclusion of another manufacturer's products in our literature does not indicate an endorsement or guarantee. The use, application, and installation must conform to that individual manufacturer's instructions and literature.

The following is a list of fastener manufacturers:

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| 1) | Buildex - Polymer Gyptec | 800-BUILDEX |
| 2) | Creative Construction Components - Peel Rivot | 800-634-5979 |
| 3) | Olympic Fasteners | 800-633-3800 |
| 4) | Power Fastening Inc. - Powerlite | 914-235-6300 |
| 5) | Firestone Building Products | 800-428-4442 |
| 6) | TruFast | 800.443.9602 |

The following is the foam adhesive manufacturer:

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|----|---------------------------------------|--------------|
| 1) | Insta-Foam Products Inc. - Insta-Stik | 800-800-3626 |
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