

## Technical Bulletin #2018-04

To: All POLYGLASS Users

CC: POLYGLASS Sales & Technical Services

Re: **Guidelines for Non-Ventilated Constructions & Specialty Insulation Constructions**

This Technical Bulletin provides supplementary guidelines to the standard application instructions for Polyglass self-adhered membranes installed as a continuous layer. Its purpose is to address considerations when these membranes are used in non-ventilated or specialty insulation assemblies, where reduced air exchange and moisture accumulation may impact system performance.

### **General Conditions:**

Polyglass recognizes that non-vented and/or specialty insulation systems (such as spray foam insulation) are sometimes applied directly to the underside of roof sheathing in assemblies that also incorporate Polyglass self-adhered membranes. These assemblies can restrict or significantly reduce free-flow ventilation traditionally present in many attic constructions. The reduced air exchange may limit the movement of air from the attic interior to the exterior, potentially increasing moisture levels within the attic space.

### **General Installation Precautions:**

Installing a continuous layer of any Polyglass self-adhesive membrane directly to the roof deck, will result in a non-permeable surface condition. It is important to ensure this type of design will not hinder or negatively impact the mechanical air design of the structure. Installation of Polyglass self-adhered membranes in a continuous layer directly to the roof deck may be problematic in areas where average high temperatures (>95°F) and/or high humidity locations (>70%) with non-vented or under-deck insulation are sprayed. Inadequate air exchange from the attic to the exterior can lead to moisture buildup, which may impact both the roofing system and the underlying deck. Project conditions should be individually evaluated for desired performance.

Polyglass recommends that all habitable spaces be properly designed and ventilated in accordance with applicable building codes. Insufficient ventilation may lead to undesirable product performance during and after installation, including potential issues with the membrane and roof deck. When non-vented or specialty insulation systems are applied to the underside of the deck, the design of the roof assembly may require the inclusion of vapor diffusion ports. In such cases, the installation of an anchor sheet may also be advisable to help provide a venting layer between the deck and the Polyglass self-adhered membrane. Verification of all applicable code requirements is strongly recommended.

### **Liability Disclaimer:**

Polyglass self-adhered membranes are manufactured in compliance with all applicable Codes and Standards. Polyglass is a manufacturer of roofing materials; it does not design or assume responsibility for building envelope or ventilation system designs. Polyglass assumes no liability for product use that does not comply with its published requirements or applicable building codes.

For more detailed application or warranty inquiries, please contact the Polyglass Technical Services Department at 866-794-9659 or via email at [Technical@Polyglass.com](mailto:Technical@Polyglass.com).



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