Technical Advisory Bulletin



We protect what matters most [™]	To:	GAF Commercial Sales, GAF Contractors, Field Services, AIS, CARE
	From:	Technical Services Department
	No:	TAB-C-11
	Installations of BUR & MB Roofing Systems On Metal Decks With Minimal Insulation	
What Is The Concern?	•	A single layer of low R-value insulation allows for large swings in the metal deck temperature. Under deck insulation and/or unconditioned space below the deck can intensify these temperature swings. The large temperature swings maximize the thermal expansion and contraction of metal decks and can place significant stress on the roofing membrane The extreme expansion and contraction of the metal deck with minimal insulation protection is often not considered nor properly addressed in the design of the roof
What About Expansion Joints?	 system. The design, location, and use of building expansion joints must be considered at the time of original building design and are the responsibility of the architect, engineer and owner As a guideline in normal construction with a reasonable amount of insulation above the deck, GAF recommends an expansion joint every 200 linear feet of building length. With minimal R-value insulation above the deck, designers must consider more frequent use of expansion joints or addition of higher R-value insulation to address the steel deck expansion and contraction. 	
What Is GAF's Position On Issuing Roof Guarantees?	guarant •	e we have concerns with long term performance, GAF will no longer issue tees on BUR or MB Roofs installed on metal decks with minimal insulation A single layer of fiberboard or perlite insulation on a steel deck <i>is not acceptable</i> as a substrate for asphaltic roofing systems that are eligible to receive a GAF roofing system guarantee.
	Where (under deck batt insulation is installed below the steel deck, at least one layer of

- isocyanurate insulation is required above the steel deck...
 - The use of batt insulation under a steel **deck requires the prior approval** of a GAF Field Services Area Manager or Field Services Area Director before installation of the roof system.

Questions? GAF Technical Services Can Assist You... with these and other questions you may have regarding your new roof installation. Technical Support Services can be contacted at 800-766-3411. The GAF website is a great resource for just about any question you may have or for additional information you may require. Please visit <u>www.gaf.com</u> to find the latest information on our products and their installation.

Important: This document supersedes any prior GAF Technical Advisory Bulletins on this topic. Please always check <u>www.gaf.com</u> to make sure you have the most up to date information.