**To: Commercial Roofing Roof System and Component Suppliers  
 Commercial Roofing Roof System Specifiers**

**From: Mike Ennis, SPRI Technical Director**

***INDUSTRY INFORMATION BULLETIN***



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| ***Industry Alert*** | **SPRI would like you to be aware that:**   * Significant changes have been made by Factory Mutual to FM 4470 with regard to steel deck stresses on FM insured buildings; * Changes will be effective as of 12/31/2012; and * Changes will effect FM insured building specifications. |
| ***What are the changes?*** | **Changes to FM 4470 include:**   * “Stresses induced to steel roof decking shall be determined by rational analysis and shall not exceed the allowable stresses per the latest addition of the North American Specification for the Design of Cold-Formed Steel Structural Members AIAI S100-2001”; and * “Limits on roof deck fastener stress have also been added”. |
| ***FM review of steel deck assemblies*** | **A FM review of all RoofNav Approved steel deck assemblies that ”over stress the deck” will be revised to:**   * Reduce the deck span; * Increase the deck thickness and/or; * Increase the grade of steel; or * Create new assemblies with a reduced wind rating. |
| ***FM Spreadsheet (attached)*** | **FM has provided the attached spreadsheet for both 33- and 80 ksi decking:**   * Delineates what an “FM Approved Steel Deck Attachment” will be by fastener row spacing by deck type (ksi) and maximum wind uplift classification. |
| ***Recommendations for FM insured buildings*** | **For projects quoted/bid before 12/31/12, you may want to contact the local FM Field Office to:**   * Confirm that the proposed roofing system is still acceptable; * Seek guidance if reroofing project is a recover; and * Identify acceptable “Rigid Cover Boards”. |
| ***Recommendations for Non-FM insured buildings*** | **For Non-FM insured buildings:**   * Designers do not use the new FM 4470 as the basis for specifications; and * Contact the roofing system manufacturer and component supplier for wind uplift resistance performance to comply with local building code. |
|  | **Attached to this bulletin:**   * October 2012 letter from FM Approvals announcing these changes; * Excel worksheet “FM Approved Steel Deck Attachment”; and * A detailed recommendation from SPRI regarding FM 4470. |