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Technical Bulletin

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Subject: Guidelines for Rooftop Attachment of Lightning Protection Systems (LPS) in
High-Wind Regions

Date: December 14, 2006

After hurricane Katrina struck in 2005, the Federal Emergency Management Agency (FEMA) conducted an investigation of the wind damaged areas. One of the conclusions of their investigation was that "lightning protection systems frequently become disconnected from rooftops during hurricanes. Displaced LPS components can puncture and tear roof coverings, thus allowing water to leak into buildings." The FEMA recommendations, as well as the Soprema guidelines for anchoring the recommended cover strips are as follows:

- The FEMA guidelines recommend that lightning protection system cables be covered with a nine (9") inch wide strip of modified bitumen membrane. Further, FEMA recommends that the strips be installed in approximately three (3') foot sections with a gap of three (3") inches between each section.
- We have conferred with Underwriters Laboratories, Inc. and they have informed us that following the FEMA guidelines will not have an impact on their certification of the lightning protection system.
- Soprema will permit lightning protection systems to be installed according to these guidelines with the following conditions and limitations:
 - a)** The three (3') foot long and nine (9") inch wide strips, hereafter referred to as "cover strips," must be adhered on each side of the cable with Soprema HVMA or HVMA II. Torch application of the cover strips is not recommended.
 - b)** The cover strips may not be installed directly over the length of membrane side laps or end laps. If the lightning protection system cable intersects membrane side laps or end laps, then there must be a minimum of three (3") inches of clearance on each side of the exposed lap.
 - c)** The anchoring of the lightning protection system in this manner, as well as the standard method, will not be covered by the Soprema Limited Warranty.