CARLISLE'S AUTHORIZED APPLICATORS

MARKETING ANNOUNCEMENT

ID-2010-08

RhinoBond Fastening System
May 27, 2010

TO: Carlisle Authorized Applicators

Carlisle has seen an increase in inquiries and interest from Carlisle contractors regarding OMG's RhinoBond fastening system and its compatibility with Sure-Weld® TPO roofing membrane. Carlisle has been evaluating this system since the first prototype was introduced in 1997. Today, Carlisle TPO RhinoBond installations total over one million square feet. Carlisle will now review and approve TPO RhinoBond projects and provide job start-up assistance. Warranties of up to 72 mph and 20 years are available with the system.

The system consists of 3-inch round metal plates that are pre-coated with a hot-melt adhesive. These plates are placed in a grid pattern that secures the insulation. The membrane is then rolled out and a special induction-welding tool is placed over each plate location and activated. Upon activation, the plate is heated by the induction welding process to a temperature sufficient to cause the hot melt adhesive to soften and adhere to the bottom side of the membrane. This process takes approximately five seconds. When the induction welding machine is removed, a magnet is placed on top of the membrane to accelerate cooling and increase adhesion by holding the adhesive and membrane in close proximity.

Benefits offered by the RhinoBond system include:

- Fewer fasteners equate to lower installed cost. The same fastener secures the membrane and the insulation resulting in fewer fasteners required on the overall roofing project.
- Membrane flutter is reduced when compared to a standard mechanically attached system with in-seam fasteners. Less billowing reduces interior noise and places less stress on seams and fasteners.
- Large areas of roof surface can be dried in quickly, allowing additional production during a tear-off without the concern of water infiltration into the building.
- Membrane width does not affect uplift performance, so sheets as wide as 12 feet may be used in any wind zone by simply increasing the RhinoBond plate density. Wider sheets reduce the number of seams and the associated cost.
- Since there are no fasteners and plates in the seams, all heat welds are placed in shear (strongest mode) during uplift loading without heat welding equipment.
- Standard HP-X Fasteners are used to secure RhinoBond plates.
- Factory Mutual uplift ratings of 120-psf with 8 fasteners and plates per 4-foot x 8-foot board and 90-psf with 6 fasteners and plates per 4-foot x 8-foot board have been achieved with Carlisle TPO.
- No perimeter sheets are required so only one width of membrane is necessary on the rooftop.

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The RhinoBond plates for Carlisle systems must be purchased through Carlisle. The following number has been established for the RhinoBond plate.

317316 / RHINOBOND INSULATION PLATE

OMG is currently selling the induction welding tools to support the installations utilizing the RhinoBond fastening system. If you are interested in purchasing the equipment, please contact your local OMG representative.

If you have any questions, please contact your local Representative/Distributor.

Sincerely,

Randy Ober
Manager Thermoplastics Product Development

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