

METAL ROOF PROBLEMS



SOLVED.

THE ANSWER IS RHINOBOND.®

Metal roofs can be a thing of beauty. They can add to the aesthetics of the structure and blend into the local environment.

They can also be a nightmare. Over time, building expansion and contraction, weather, UV exposure and acid rain can leave them rusting, leaking and falling apart.

When a metal roof fails, there are many options, but few real solutions.

Caulking joints and coating the roof may not be the best long-term solution. And installing a new metal roof is very expensive. That's why many building owners opt for a longer lasting single-ply membrane roof system.

Historically, single-ply systems were difficult to install, requiring special width materials and details. But RhinoBond has changed all that so installing a thermoplastic roofing system in metal retrofit applications is easier than ever.



RhinoBond®
INDUCTION FASTENING SYSTEM

Non-penetrating fastening system for thermoplastic roofing



SOLVED.

A BETTER ALTERNATIVE

RhinoBond is an alternative membrane attachment system for TPO and PVC membranes and the ideal option for metal retrofit applications. This Factory Mutual approved system secures the membrane to the purlins without penetrating the roofing material.

The RhinoBond system uses the same fastener and plate to secure the cover board and the membrane. Because the plates are welded to the underside of the roof cover, membrane width and orientation are no longer factors. The fasteners are installed into the purlins for maximum uplift resistance, yet they do not have to be placed in the seams of the membrane.

Once the fasteners are in place, simply unroll the membrane and hot-air weld the seams. Then weld the membrane to the specially coated RhinoBond plates under the membrane using the RhinoBond induction welding tool.



FEWER FASTENERS, FEWER SEAMS

As with most mechanically attached systems, metal retrofit roof assemblies require extra fastening around the perimeter of the roof where wind uplift forces can be the strongest.

Since membrane width is not an issue with RhinoBond, adding extra fasteners in these areas provides a tighter fastening pattern for full-width membrane. Thus, you get enhanced security with fewer seams.

Furthermore, unlike in traditional metal retrofit systems, membrane orientation is not a factor. Materials can be installed parallel or perpendicular to the purlins, and with far fewer seams, for a faster and easier installation.

FASTER DRY-IN

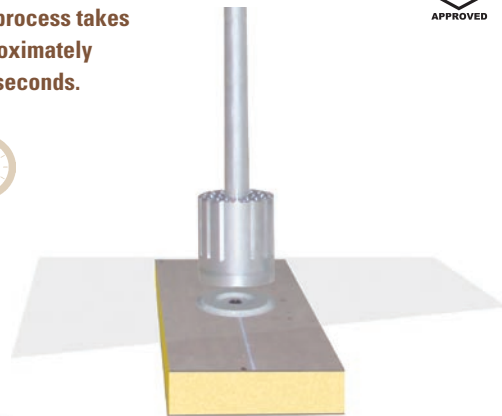
In some installations, membrane seams can be welded before all of the RhinoBond plates are bonded to the membrane. This enables the contractor to get a larger area of the building dry and to reassign skilled workers to complete other parts of the installation before welding the membrane to all of the plates.

REVOLUTIONARY TECHNOLOGY

Just place the RhinoBond tool on the membrane directly over the specially coated plate and activate the tool to bond the underside of the membrane to the plate.



The process takes approximately five seconds.



Place a weighted magnetic RhinoBond cooling clamp on the welded plate to assure a strong bond.



RHINOBOND PRODUCTIVITY

An experienced operator can weld five plates per minute or 300 plates per hour, and that's just with one RhinoBond tool. With fewer seams to weld, RhinoBond is an even more efficient option.

COMPATIBILITY

RhinoBond is compatible with polyisocyanurate, DensDeck® and Securock® as well as any insulation that will not melt by the induction welding process. Induction welding should not be used directly over extruded polystyrene, EPS or foil faced insulation boards.

FASTENERS & PLATES

The RhinoBond system includes 3-inch round specially coated plates, sold in pails of 500. Plates are available for TPO and PVC membranes. RhinoBond plates can be installed with several OMG fasteners and meet FM 4470 criteria for corrosion resistance.

INDUCTION WELDING TOOL

The RhinoBond tool is lightweight, adjustable, and easy to use and handle. It operates on standard 110 volt power sources and typically draws 1,300 watts. A 5,000 watt generator in good condition with two 20A GFCI-protected circuits will run two tools.



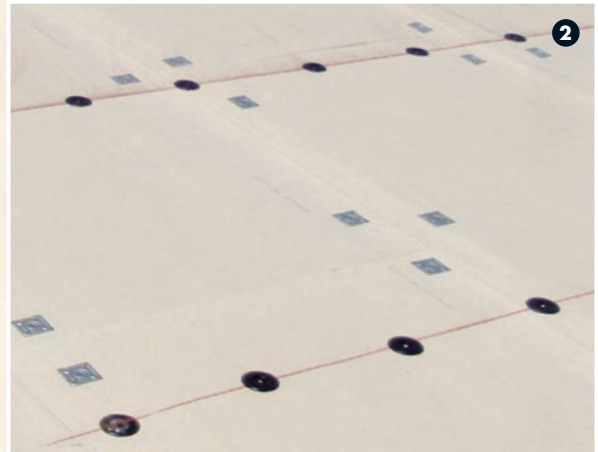
The RhinoBond metal retrofit installation is a three-step process:

1 Fill the flutes with loose laid insulation.

2 Secure a cover board to the purlins with fasteners and round RhinoBond Plates for membrane attachment.

Additional non-RhinoBond insulation fasteners may be required per FM guidelines, as illustrated by the square plates shown in the photo at right.

3 After the membrane is installed, weld each plate using the RhinoBond tool.



The RhinoBond System is available through many roofing system manufacturers. RhinoBond tools are available exclusively through OMG Roofing Products' network of roofing distributors. For additional information, please call 800-633-3800.





**ROOFING
PRODUCTS**

153 BOWLES ROAD
AGAWAM, MA 01001
800-633-3800

WWW.RHINOBOND.COM

RhinoBond® is a registered
trademark of OMG, Inc.
Copyright © 2010 OMG, Inc.
All rights reserved.

SINCH Technology® is a
registered trademark of Nexicor.
RhinoBond is patent protected.