

Duro-Bond® Roofing System



**A mechanically-attached installation
option using non-penetrating
"induction weld" technology**



*Specially coated Duro-Bond
fastening plates.*

Induction welding is an installation technique that bonds the Duro-Last® PVC membrane to a specially-coated fastening plate beneath the roof membrane, which also fastens insulation and recovery board materials to the roof deck. In simple terms, an induction welding tool generates an electromagnetic field that heats the plate through the membrane, welding the plate's special coating and bottom membrane film layer together and forming a very strong bond between the two.

An induction weld installation does not create any point of entry for moisture, requires fewer fasteners, and provides superior wind uplift performance.

***The Duro-Bond system offers several advantages over
conventional mechanical and adhered systems:***

- It requires up to 25% fewer fasteners, yet provides superior uplift characteristics. The Duro-Bond system can accomplish this by using as few as eight fasteners per 4 x 8 insulation/recovery board (actual number depends on wind uplift fastening requirements).
- No foul-smelling bonding adhesives are needed in large quantities, making it ideal for hospitals, schools, and other occupied building applications.
- Only a few seconds are required to bond the membrane to the plate (depending on ambient temperature), and the job can be performed by virtually anyone; Duro-Bond systems are installed quickly.
- Installing additional fasteners around penetrations or in corners provides extra attachment points for the full-width membrane. The result is enhanced security with fewer seams.
- Duro-Bond is compatible with polyisocyanurate and many other insulation types.
- The Duro-Bond system can be used in virtually any weather conditions.

Revolutionary Technology

With the Duro-Bond system, contractors have the choice of using plates and welding tools made by OMG (the RhinoBond® Induction Fastening System) or FRS (the Centrix® Induction Bonding System). Plates and tools are available for purchase from Duro-Last.

To perform the operation, the installer places the welding tool on the membrane directly over the specially coated plate and activates the tool to bond the underside of the membrane to the plate.

RHINOBOND®
Induction Fastening System



CENTRIX®
Induction Bonding System

Fastening Pattern Flexibility

Traditional mechanically-attached installations require fastening the membrane to the roof deck using tabs, usually located where membrane sections are seamed together. However, with the Duro-Bond system, seam and tab fasteners are not necessary. Simply determine the number of fasteners required to achieve the desired wind uplift rating and spread them across the roof in a grid pattern. The uplift load will be distributed evenly and the system can achieve superior wind ratings with fewer fasteners.

A Better Option for Metal and Other Special Retrofit Applications

The Duro-Bond system is the ideal alternative for installing a Duro-Last roof in metal retrofit and some concrete deck applications. 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. Therefore, membrane width and orientation are not factors in metal retrofit installations.

The Duro-Bond Installation/User Manual is available on the Duro-Last website. For more information, contact the Duro-Last Sales or Engineering Services Department.



800-248-0280
www.duro-last.com



The Duro-Last Roofing System is proudly manufactured in the United States of America.

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