

# FRS

Canada

## Centrix

Electro-Bonding System



### Centrix Electro-Bonding System

The Centrix electro-bonding system revolutionizes the way single ply waterproofing membranes are attached to decking. This system literally electro-bonds the waterproofing membrane directly to the special Centrix plate and fastener combination used to hold the insulation board. The exclusive fastening system, used in conjunction with the correct Centrix plate, can be used on steel, concrete and even lightweight concrete decks depending on pull tests.



### Centrix Induction Technique

The membrane is fastened to the specially developed Centrix pressure plates by the induction system heating the pressure plates, which activates the coating on the plate and fastens it to the underside on the membrane. The insulation board can be mechanically fastened with the most efficient and effective fastening pattern to meet the wind-load calculations. The waterproofing membrane, which can be PVC, TPO or even EPDM material, is then simply rolled out over the insulation board. The individual fasteners are located by use of the detector in the handset. The induction welding commences and in only a few seconds, a bond is complete! One width of membrane can be used across the whole roof area as the insulation fasteners have been placed to meet the wind load calculations. Selecting the widest membrane available makes economic sense as it cuts the seam welding labor time. The Centrix machine counts every complete weld which in turn means the roofing contractor can be assured of a correctly welded membrane and subsequently feel assured of a successful, completed contract. The Centrix method makes it possible to dispense with the traditional overlapping method of fastening and allows other more optimal ways of using a fastening pattern. This also reduces the quantity of membrane, therefore making the process more cost effective.



### How Centrix Works

The Centrix systems works by an ingenious process where a high frequency electrical current in the induction coil generates an intense magnetic field focused downwards. This field induces a high current in the metal plate top surface, which rapidly heats up to activate the adhesive coating. The overlying membrane then becomes laminated to the surface of the plate.

# The Centrix Process



1. Plug in and turn on Centrix Machine



2. Locate plate under membrane using sensor integrated into handle



3. Center LED light on handle by moving the handheld in the direction of the lights. Once centered, machine will begin auto-weld. Held still until 'beep' indicates the weld is complete.



4. Remove Centrix tool and apply magnet to welded plate. Leave magnet in place 40-50 seconds until weld is cool.



### Features:

- 240 volt standard on site power supply
- Wash and rain proof
- Supplied with 10 magnets to hold down membrane
- Digital display - clear, concise user instructions during installation
- Electro bonds between 4-6 seconds



### Benefits:

- The membrane can be fused to the Centrix plates
- Position of the plates is guaranteed to be correct in light rain because of the automatic settings of the machine
- Channel formation can be combated
- Centrix can also be used on vertical walls
- Welding and fastening are independent of each other
- The width of membrane simplifies ordering, storage and handling
- Under membranes - the roof surface is made watertight more quickly
- No overlays, therefore less risk of failure
- Overlap fastening allows a narrower overlap (60mm) and therefore a reduction in material used
- Different profiled sheet metal can be used and no longer have an influence on the width of the roofing membrane



FRS Canada serves as a supplier and service center for Centrix Induction Welding Machines

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**Specialist rooftop Equipment Supplier and Service Center**