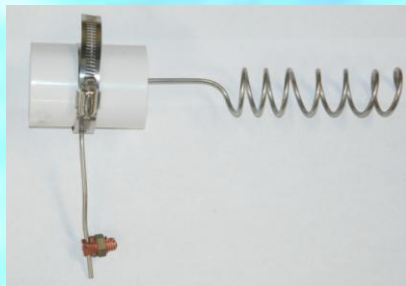


**Calculation for  
Meeting NEC2008 680.26(C)®  
with  
CMI's Patent Pending **WaterBond™**  
WB150SS, WB200SS, WBAGSS**



Pursuant to section 680.26(C) of the 2008 National Electrical Code®, there must be an intentional bond to the water from the rest of the bonded system of the pool, such as the bonding grid under the deck, equipment, electrical panel, metal handrails and all other metal objects within 5' of the water. The bond must provide at least 9 square inches of surface to the water.

CMI's WaterBond™ fittings provide that minimum of 9 Square Inches of surface area of contact. There is a 3/32" diameter Stainless Steel rod, a minimum of 32" of length in contact with the water.

**CALCULATION**

Surface Area =

$$\begin{aligned} \text{pi} & \quad \times \quad \text{Dia.} \quad \times \quad \text{length} = \\ 3.1416 & \quad \times \quad (3/32) \quad \times \quad (32) = \\ \mathbf{9.42} & \quad \text{square inches of surface area} \end{aligned}$$

**Patent Pending**

NFPA, National Fire Protection Association, National Electrical Code® and NEC are registered trademarks of the National Fire Protection Association, Quincy, MA  
Equipbond is a registered trademark of Consolidated Manufacturing International, Raleigh, NC

## **IMPORTANT SAFETY INSTRUCTIONS**

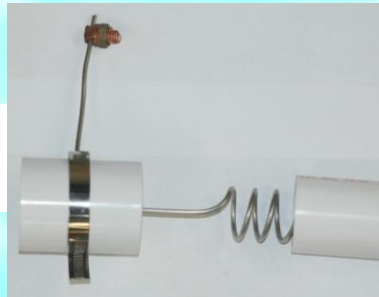
*When installing and using this electrical equipment, basic safety precautions should always be followed, including the following:*

- 1) READ AND FOLLOW ALL INSTRUCTIONS**
- 2) WARNING – To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.**
- 3) SAVE THESE INSTRUCTIONS.**

**Begin the normal plumbing installation of the water pipe from the pool to the filter, except install the WaterBond™ fitting between the pool and the filter, or anywhere in the plumbing line. Ensure the fitting is installed so the metal is fully submerged in the water and in contact with the water in the line.**



Filter to  
WaterBond fitting



WaterBond  
fitting to Pool



**Step 1)** Between the filter and the pool, glue in the WaterBond fitting as you would normally install a coupling. However, the fitting can be installed anywhere in the line, but it is recommended that you point the metal coil away from the pool and in the direction of the water flow. **NOTE:** Ensure the metal coil is fully submerged so the metal is in contact with the water.

**Step 2)** A #8 Split Bolt is supplied and attached to the tail ready to accept your bond wire. Attach a solid copper bonding conductor not smaller than 8 AWG (8.4 mm<sup>2</sup>) shall be connected from the accessible wire connector on the motor to all metal parts of the swimming pool, spa, or hot tub structure and to all electrical equipment, metal conduit, and metal piping within 5 feet (1.5 m) of the inside walls of a swimming pool, spa, or hot tub, when the motor is installed within 5 feet of the inside walls of the swimming pool, spa, or hot tub.

The WaterBond™ fitting is a Schedule 40 Pipe Fitting, that has a piece of metal (Stainless Steel) installed, which will put over 9 square inches of metallic surface contact with the water. This complies with article 680.26(C) of the National Electrical Code. Once the fitting has been glued into the pipe, simply connect a #8 bond wire to the tail, and run the bond wire back to the pump or other connection point on the bonding system of the pool.