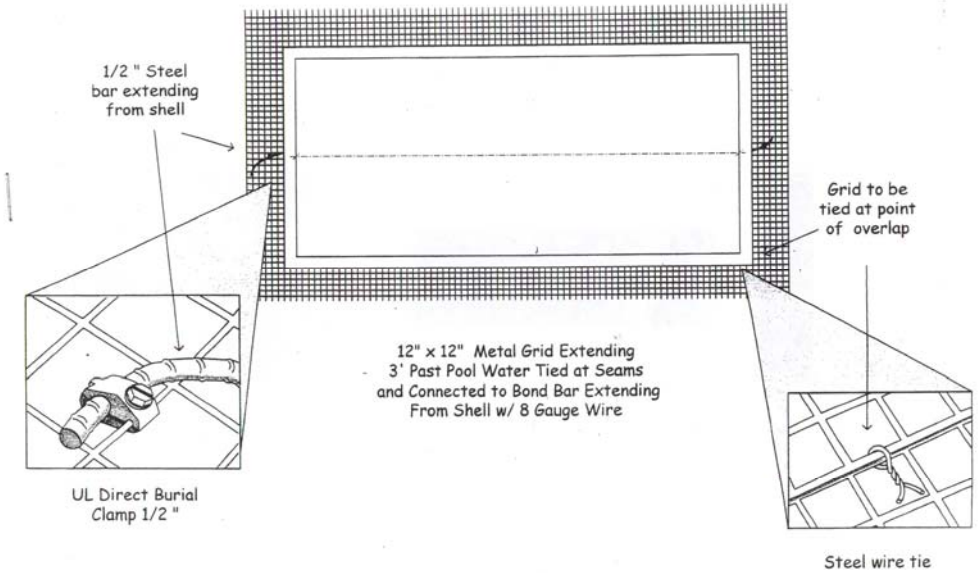Bonding Grid