



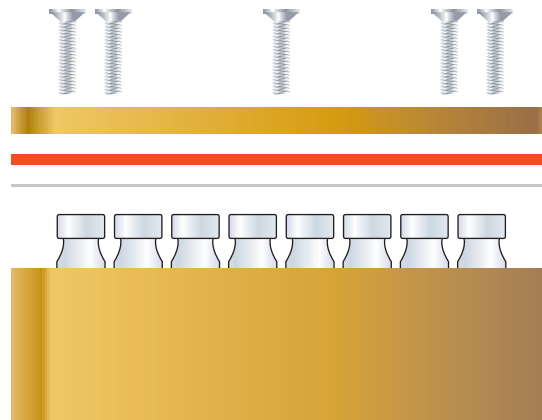
## Set-up Instructions



179 Route 206 • Flanders, NJ, 07836  
P: 973-616-0700 • F: 973-616-0133 • E: [info@analytical-sales.com](mailto:info@analytical-sales.com) • I: [www.analytical-sales.com](http://www.analytical-sales.com)

©2019 Analytical Sales and Services, Inc. • Doc. Ref.: AlumBlockSetup

## Aluminum Reaction Block Set-up For 24-Well and 48-Well Blocks



### Sealing the Block - Mat and Film Placement

- **Silicone Rubber Mat** - Blocks use one orange silicone rubber mat on top of the glass reaction vials to provide compression sealing
- **PFA Film** - One chemically compatible teflon PFA film is used between the lower rubber mat and the top of the vials to provide seal and keep the vials from sticking to the rubber mat when heating

## Sealing the Plate - Screwing Down Cover

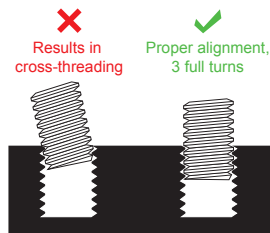
### Sealing the plate properly is critical to reaction success

– Procedure for screwing down the plates - even pressure, not too tight, keeping top cover flat

#### 1. Insert screws and hand tighten each screw 3 complete turns.

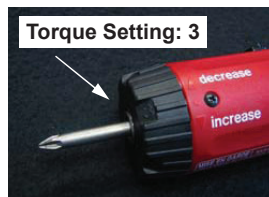
**Note: DO NOT FORCE screw into hole.** The screw should twist into the hole in the block with ease. If the screw starts to bind, back the screw out, realign and try again.

**Important:** before proceeding, make sure all screws are properly threaded and fastened. Check by pulling up on each screw to make sure they won't pull out. If screw comes out of hole, repeat step 1.

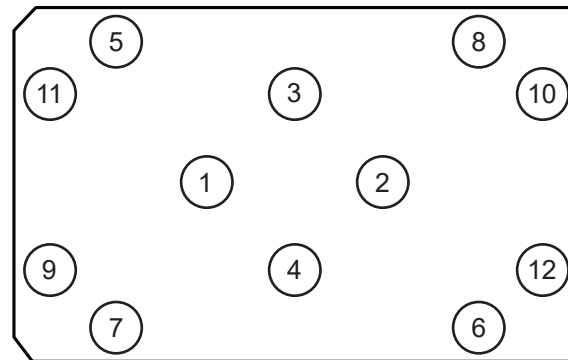


**2. Level cover plate:** Following the pattern shown at right, screw down each screw so that they are flush (but not tight) with cover plate. To speed process up, if needed, use a power-driver to complete the plate assembly (*power-driver should only be used after manually turning screw three complete rotations*).

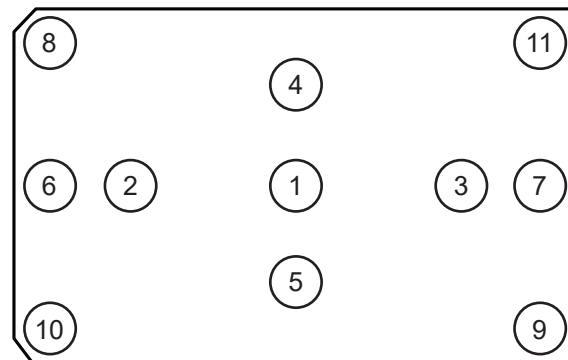
**3. Tighten screws:** Once the screws are flush and the cover plate is level and secure, tighten the screws using the same cross-pattern. Using torque control with a **setting of 3**, proceed with two rounds of tightening.



**4. Additional steps:** Tighten in the same cross-pattern using a standard phillips head screwdriver until tight. **DO NOT OVERTIGHTEN.** Repeat.



Screw pattern for **24 Well**  
**Reaction Plates**



Screw pattern for **48 Well**  
**Reaction Plates**