



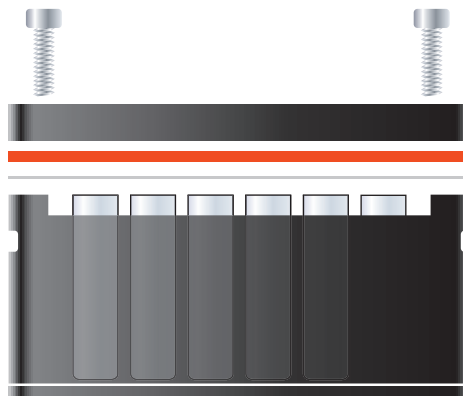
Set-up Instructions



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Photoredox/Parallel Synthesis Gen II Reactor Block Set-up For 24-Well Blocks with 9mm Spacing



Sealing the Plate - Rubber Mats & Film

• Sealing the plate properly is critical to reaction success and is an evolving process

– Sealing mats:

- **Silicone rubber mat** - plates use one 1/8" thick orange silicone rubber mat on top*
- **PFA Mats** - One chemically compatible teflon PFA mat is used on top to provide seal, between the rubber mat and vials.

* 24-well blocks with 9mm spacing also use a bottom rubber mat - see note inside

Sealing the Plate - Screwing Down Cover

Sealing the plate properly is critical to reaction success

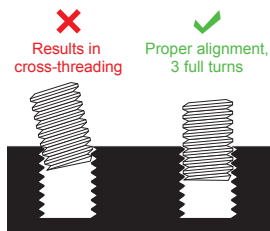
– Procedure for screwing down the plates - even pressure, not too tight, keeping top cover flat

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

Note: DO NOT FORCE screw into hole.

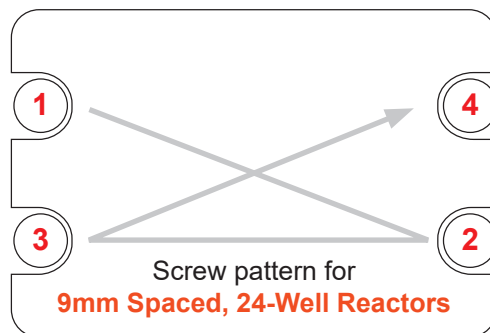
The screw should twist into the hole in the block with ease. If the screw starts to bind, back the screw out, realign and try again.

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. Go around at least twice.

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 a 5/32" (or 4mm) allen key. Proceed with at least two rounds of tightening. **DO NOT OVERTIGHTEN.** Repeat.



For 24-well reactors with 9mm spacing, the ideal torque value for the screws is 5 in•lbs. Start at the top left, then go bottom right, bottom left, top right. Go around at least twice. **Never tighten 1 bolt fully before engaging the others.**

Note: Gen II 24-well reactors with 9mm spacing have a bottom mat which does not have to be replaced often. Should you decide to replace it, instructions can be found on our website.