BIL SOLUTIONS
bilsolutions.co.uk

CHECKLIST

Radiation Shielding Selection Checklist

- [ ] Identify the radiation type and energy of your source
- [ ] Choose paper or thin plastic for alpha particles
- [ ] Use low-atomic-number materials like Perspex or aluminium for beta particles
- [ ] Select lead, steel or concrete for gamma rays based on energy and space available
- [ ] Use polyethylene or water-based materials for neutron sources
- [ ] Layer neutron shielding with a boron or cadmium absorber and outer lead layer
- [ ] Calculate required thickness from half-value layers and your dose limit
- [ ] Verify installed shielding with dose measurements around the enclosure
- [ ] Inspect shielding regularly for cracks, sagging or degradation
- [ ] Document material specifications and survey results for compliance