SAFE SHED

Safe Shed is a low cost, easily assembled in-home shelter that allows symptomatic individuals to recover while isolating from family members or roommates to effectively contain and prevent the spread of infection within households.

- Compact kit-of-parts, flat-packed, easily shipped and constructed. All packaging is repurposed and used for the structure itself.
- Allows for safe delivery of food and medicine and connectivity for hospital or clinic monitoring.
- Integrated fan/duct system pulls aerosolized particles out of shelter to exterior exhaust location which protects others from airborne particles.
- Easily disassembled when the patient no longer needs isolation.

Air filtration box with integral fan is embedded in the end wall. Layered corrugated cardboard ribs. Flexible pleated air filtration fabric skin prevents airborne particles from escaping the room and infecting other people. Bedhead with integrated HEPA air filter (MERV 7 or 8) that connects to exhaust outlet at window. Aluminium air duct attached to vertical duct boot at base of bedhead with 6 inch diameter Inline fan (320 CPM @ 0.2", 120V, 62 WATTS). Route 6 inch flexible duct work to nearby window to exterior with window PVC dowels or cardboard tubes Double door entrance serves as discharge fitting. are threaded through cardboard an airlock maintaining the negative pressure system within the shed. ribs to provide additional stability

and strength.

Team

Sarah Goldblatt, AIA
Cate Humby, M.Arch, Dip. Interiors
Dr. Scott Meskin, MD