



MAIL CONTAINMENT BOX

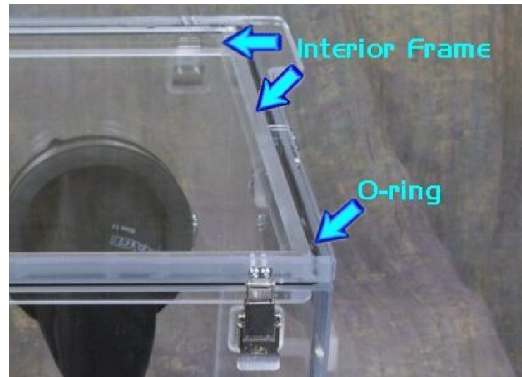
The Canus Mail Containment Box, or “bio-box,” was developed on behalf of the R.C.M.P. to combat airborne contamination threats. High-risk contamination incidents, like the recent anthrax scares in New York City, show the continued importance of quick-response containment units. The bio-box allows Haz-Mat teams to immediately address these scares and neutralize any packages that may be a contamination risk, by quarantining them on-site then safely relocating the unit to a secure location.

Designed to contain suspect letters or parcels in a completely airtight environment, the bio-box cannot be compromised during handling and transport once suspicious materials have been sealed within. Any package suspected to be a threat can be isolated to minimize potential contamination of the surrounding area – not just to protect those in immediate proximity, but for anyone in the building space that is sharing the same air.

Each bio-box is custom fabricated from 1/2” cast acrylic. This ensures strength and rigidity to prevent the case walls from bowing or flexing. Because the box is hand-constructed, it avoids the structural problems that moulded plastics often suffer from at 90°-angle joints, preventing any crack or torque-related handling issues.

The lid is 3/4” thick with an O-ring seal, held tightly to the box by 8 evenly placed clamps. The joints are bonded and sealed with a plastic solvent and completely airtight.

A frame fits precisely inside the box to further support the O-ring. The interior dimensions of the box are 24" long, 18" wide, and 13 1/2" high. It weighs 52 pounds. As each box is hand-crafted, they can be customized on request, from changing the dimensions to adding a second pair of handling gloves.



Clear acrylic was chosen to permit a view of the contents from all four sides and the top and bottom. The bio-box's size provides maximum working volume while permitting the box to safely pass through an airport X-Ray machine for further inspection and/or irradiation of the contents.

The bio-box features a built-in pair of thick handling gloves, allowing a suspect object to be manipulated without removing it from its airtight environment. The gloves are made of natural latex and are extra-thick to ensure maximum resistance to abrasion and protection to Haz-Mat personnel.

Perhaps more importantly, the gloves also serve as a safety valve when the box is subjected to sudden environmental change. Were it to be taken from a 70° F atmosphere and placed in one of significantly higher temperature - such as the trunk of a police car in Houston in July - the gloves would compensate for the natural expansion of air inside the box, thus maintaining the integrity of the seal.

Tested by the R.C.M.P. and meeting all structural and design criteria, the Mail Containment Box is in the hands of first response units across Canada. Mail rooms in several Canadian government offices have a bio-box standing by, as do many embassies and Hazardous Material teams in a number of European countries.

Canus Plastics Inc. of Ottawa is the oldest custom plastic fabricators in Canada with 65 years of experience in designing and manufacturing specialty plastic products.

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