

Part 1 General**1.1 Summary**

- .1 Unless otherwise indicated, follow the standards below when specifying permanent separation of decontaminated spaces (or “upper seal”) from adjoining non-project areas. These standards are not intended to restrict or replace professional judgement.

1.2 Related McGill’s Guidelines

- .1 McGill requires the following, most notably, (but not limited to) standards to be applied:
 - .1 McGill’s EHS’s Construction Safety (<http://www.mcgill.ca/ehs/programs-and-services/construction-safety>)
 - .2 McGill’s Waste Disposal Guidelines (<http://www.mcgill.ca/hwm/guidelines>)

1.3 Design Requirements

- .1 Clearly indicate location and information on drawings for desired acoustical and fire ratings of permanent upper seal walls.
- .2 Warning stickers to be placed on partition upper seal indicating, on decontaminated side, “hazardous materials on other side” and fire rating if required.
- .3 Warning stickers to be placed on partition upper seal indicating, on contaminated side, that it is an “upper seal” limit with fire rating, if it is the case.
- .4 Stickers to be provided by McGill EHS.
- .5 Contractor is to be advised of the possibility of smoke test to verify seal efficiency.
- .6 Before the space is decontaminated, the contractor must install a temporary seal in the ceiling space extending at least 6 inches horizontally (on the contaminated side) from where the permanent upper seal will be installed. The temporary seal can remain in place after the work is completed.
- .7 Verification to be done on the ventilation system installations for the modified spaces to ensure adequate ventilation is maintained. Modification of the system to be done if necessary on either side of the upper seal.
- .8 Verification to be done on the sprinklers and fire detection installations to ensure that the existing protection is maintained. Modification to systems to be done if necessary on either side of the upper seal.

Part 2 Products**2.1 Preferred Products**

- .1 Accepted products for permanent and visible upper seal:
 - .1 Cement

- .2 Concrete block
- .3 Gypsum board
- .2 **Plastic, including polyethylene film products, are not accepted.**
- .3 Accepted materials where sheet panel materials cannot be accepted because impossible to install, must be approved by the professional:
 - .1 Fireproof polyethylene canvas as POLYFABRIC 4,5 FR, sealed by self-adhesive membrane, or approved equivalent.
 - .2 Self-adhesive membrane such as BAKOR's BLUESKIN or approved equivalent
- .4 Caulking around ducts, joints, etc.:
 - .1 TREMCO acoustic sealer, product of TREMCO or approved equivalent (CAN/ONGC-19P21)
 - .2 ULC Sealer: Fyre sil or Fire Shield, product of TREMCO or approved equivalent
- .5 Oakum:
 - .1 Glass-wool insulator in the openings between wall and ceiling, beam and wall, etc.
 - .2 Use jointly with acoustic sealer products
- .6 Fire stop:
 - .1 Homologated mineral wool respecting CAN4-S115M standard such as AVD fire barrier mineral wool insulation in the openings between wall and ceiling, beam and wall, etc.
 - .2 Use jointly with the fire stop sealer products.

2.2 Related Technical Sections

The technical sections of the McGill Building Design and Technical Standards should be consulted with the current document, most notably (but not limited to) the following:

Section Number	Title of Section
01 74 19	Waste Management and Disposal
02 80 00	Hazardous materials
07 84 00	Fire stopping
07 92 10	Joint sealing
09 21 16	Gypsum board assemblies
09 22 27	Suspended ceiling
23 00 00	Ventilation

END OF SECTION