



GENERAL INFORMATION ON ASBESTOS

What is Asbestos?

Asbestos is the name given to a number of naturally occurring minerals that have been mined for their useful properties such as thermal insulation, chemical and thermal stability, and high tensile strength. The types of asbestos that are regulated are: Chrysotile, Amosite, Crocidolite, Anthophyllite, Tremolite, and Actinolite. Asbestos deposits can be found throughout the world and are still mined in South America, Australia, Canada, South Africa, and the former Soviet Union.

Why is Asbestos a hazard?

Asbestos is made up of microscopic bundles of fibers that may become airborne when disturbed. If these fibers get into the air, they can be inhaled into the lungs where they may cause significant health problems. Researchers still have not determined a "safe level" of exposure but we do know that the higher the concentration of fibers and the longer the exposure, the greater the risk of contracting an asbestos-related disease. Some of these health problems include:

- **Asbestosis** - a lung disease that causes scarring of the lungs. Eventually, this scarring may become so severe that the lungs cannot function. The latency period (meaning the time between the exposure and the onset of disease) is often 25-40 years.
- **Mesothelioma** - a cancer of the lining of the lung and chest and/or the lining of the abdominal wall. Asbestos exposure is one of the few causes of this cancer. The latency period for mesothelioma is often 15-50 years.
- **Lung Cancer** – Lung cancer can be caused by exposure to asbestos. A person has a much greater chance (50 to 84 times greater) of developing lung cancer if they are exposed to asbestos and they smoke. Cancer of the gastrointestinal tract can also be caused by asbestos exposure. The latency period for these cancers is often 15-30 years.

Despite the common misconception, exposure to asbestos fibers does not cause headaches, upper respiratory irritation or other immediate symptoms. As mentioned above, the effects often go unnoticed for 15-50 years.

When is Asbestos a hazard?

Asbestos-containing materials (ACM) in good condition should not pose a hazard to building occupants. If these materials can be maintained in good condition, it is recommended that they be left alone and periodic surveillance performed to monitor their condition. It is only when ACM is disturbed or the materials become damaged that it becomes a hazard. When the materials become damaged, the fibers separate and may then become airborne. In the asbestos industry, the term '**friable**' is used to describe an ACM that can be reduced to powder by hand pressure. '**Non-friable**' means an ACM that is too hard to be reduced to powder by hand pressure. Mechanical grinding, sanding and dry-buffing are some ways of causing non-friable materials to become friable.

Where Can Asbestos Be Found?

Asbestos was, and still is, used in building materials for a variety of reasons. Asbestos fibers are incredibly strong and have properties that make them resistant to heat, chemical damage and insulate against electricity as well as adding durability to a product. Asbestos was added to thermal and acoustic insulation, fireproofing, roofing products and flooring. Some of the more common products that may contain asbestos include:

Acoustical Plaster	Decorative Plaster	Joint Compounds
Adhesives and Mastics	Ductwork Flexible Fabric Connections	Laboratory Gloves
Asphalt Floor Tile	Electric Wiring Insulation	Laboratory Hoods/Table Tops
Base Flashing	Electrical Cloth	Packing Materials (for wall/floor penetrations)
Blown-in Insulation	Electrical Panel Partitions	Pipe Insulation (corrugated air-cell, block, etc.)
Boiler Insulation	Elevator Brake Shoes	Roofing Felt
Breaching Insulation	Elevator Equipment Panels	Roofing Shingles
Carpet Backings	Fire Blankets	Spackling Compounds
Caulking/Putties	Fire Curtains	Spray-Applied Insulation
Ceiling Tiles and Lay-in Panels	Fire Doors	Taping Compounds (thermal)
Cement Pipes	Fireproofing Materials	Textured Paints/Coatings
Cement Siding	Flooring Backing	Thermal Paper Products
Cement Wallboard	Heating and Electrical Ducts	Vinyl Floor Tile
Chalkboards	High Temperature Gaskets	Vinyl Sheet Flooring
Construction Mastics (floor tile, carpet, ceiling tile, etc.)	High Temperature Paper Products	Vinyl Wall Coverings
Cooling Towers	HVAC Duct Insulation	Wallboard

Wasn't Asbestos Banned?

There are common misunderstandings about an Environmental Protection Agency (EPA) ban on ACM products or uses from 1989. Many sources incorrectly report that all asbestos-containing products have been banned. In 1991, the U.S. Fifth Circuit Court of Appeals vacated much of the so-called "Asbestos Ban and Phaseout" rule and remanded it to the EPA. Thus, much of the original 1989 EPA ban on the U.S. manufacturing, importation, processing, or distribution in commerce of many asbestos-containing product categories was set aside and did not take effect. Six asbestos-containing product categories are still subject to the 1989 asbestos ban. However, EPA has no existing bans on other asbestos-containing products or uses. Products manufactured in other countries may also contain asbestos and can be imported into the United States.

EPA does NOT track the manufacture, processing, or distribution in commerce of asbestos-containing products. It would be prudent for a consumer or other buyer to inquire as to the presence of asbestos in particular products. Possible sources of that information would include inquiring of the dealer/supplier or manufacturer, refer to the product's "Safety Data Sheet" (SDS), or consider having the material tested by an accredited laboratory before installing it in your building.

For More Information, please contact:

Asbestos Compliance Assistance Group
 Phone: (303) 692-3100
 Fax: (303) 782-0278
 Toll Free: 1-800-886-7689
 Web page: www.colorado.gov/cdphe/asbestos
 Email address: cdphe.asbestos@state.co.us

Demolition Notice Application Form Information and Instructions:

1. To determine the proper amount for the application fee, multiply the length of the building (lineal feet) by the width of the building (lineal feet). Divide the total by 1000, round the result up to the next whole number and multiply this number by 5\$. This is the square footage fee. Add the square footage fee to the base fee of \$50 and submit the total amount to the Division along with the demolition notice application form.

Ex: 40ft. x 52ft. = 2080 square feet; $2080/1000 = 2.08$ (round up to 3); $3 \times \$5 = \15 (square footage fee) $\$15 + \50 (base fee) = \$65 total application fee.
2. In the event that only a load-bearing member is demolished, the square footage fee is calculated the same way as in "number 1". However, you only need to calculate the actual footprint of the load-bearing member.
3. All spaces must be filled in on the application. If the information is not applicable, please write N/A. Incomplete information may result in a delay in processing the application, which may delay your project.
4. We must have proposed start and end dates for the demolition.
5. There is a 10 working-day advance notification requirement for permit applications. Day 1 is the 1st business day following the postmark or hand-delivery date. (Working Day means Monday through Friday and including holidays that falls on any of the days Monday through Friday.) If a demolition follows a **permitted** or **noticed** asbestos abatement project within 10 business days of the completion of the abatement project, the 10 working-day advance notification requirement will be waived.
6. The Colorado-certified asbestos inspector must sign the form in blue ink. (Original signature must be submitted.) The building owner or the contractor must also sign the application certifying that all refrigerants and luminous signs have been properly removed from the site.
7. If the notice must be modified after the application has been submitted, notify the Asbestos Unit by fax at 303-782-0278 or e-mail at asbestos@state.co.us by the end of the next regular State business day following the modification. Project modifications include discovery of unidentified asbestos-containing materials, changes in scope of work or the scheduled work dates. Please use the Permit/Notice Modification Form.
8. Recycling of materials, such as concrete or wood, that are bonded or contaminated with asbestos-containing material (ACM), such as floor tile or mastic, is NOT permitted.
9. Demolition of a building that has non-friable asbestos-containing materials remaining must be completed without causing the asbestos-containing materials to become friable. Burning a building with any asbestos-containing materials is PROHIBITED. Concrete floors covered with floor tile shall be removed in as large sections as possible. Operations such as crushing, pneumatic jacking, etc. of materials containing asbestos are not permitted.
10. All provisions of laws and ordinances governing this type of work shall be complied with whether specified herein or not. Demolition permits or approval notices appearing to give authority to violate or override the provisions of any other laws or ordinances shall be invalid. Furthermore, demolition permits or approval notices issued in error or based upon incorrect information supplied to the Division shall also be invalid.



Colorado Department
of Public Health
and Environment

DEMOLITION NOTIFICATION APPLICATION FORM

APPLICATION FEE MUST ACCOMPANY THIS FORM
INCOMPLETE APPLICATIONS WILL BE RETURNED

(Notice will be mailed to the demolition contractor unless specified otherwise)

Fee: \$50 + \$5 per 1000 ft² of area to be demolished = \$ _____
(See instruction #1 on reverse side)

Submit form to:
Permit Coordinator
Colorado Dept. of Public
Health and Environment
APCD-IE-B1
4300 Cherry Creek Drive
South
Denver, CO 80246-1530
Phone: 303-692-3100
Fax: 303-782-0278
Asbestos@state.co.us

Demolition Contractor	Company Name:			Demolition Site	Building Name:		
	Street:				Square footage of footprint of facility or portion of facility to be demolished		
	City:	State:	Zip Code:		Street:		
	Telephone # ()	Fax # ()			City:	County:	Zip Code:
	Project Manager:	Cell Phone # ()			Proposed Start Date		Proposed Completion Date
	I certify that the Certified Asbestos Building Inspector has informed me about any remaining asbestos-containing materials in the facility to be demolished.				Method/Mean of Demolition:		
	Signature:	Print Name:			<input type="checkbox"/> Wrecking <input type="checkbox"/> Burning [†] <input type="checkbox"/> Implosion <input type="checkbox"/> Moving <input type="checkbox"/> Other, specify:		
Landfill Receiving Building Debris:			[†] Burning requires additional authorization – Please call (303) 692-3100 and ask to speak to the Open Burning Permit Coordinator				
Asbestos Removal Contractor	General Abatement Contractor (GAC)			Building Owner	Owner's Name:		
	CDPHE Asbestos Permit #	Total Quantity of Asbestos Removed			Street:		
	Date Removal Completed	Telephone # ()			City:	State:	Zip Code:
	Type(s) of Asbestos-Containing Material Removed:				Contact's Name:		Telephone # ()
Certified Asbestos Inspector Certification	With my signature below, I certify that I possess current AHERA accreditation and state of Colorado certification as an Asbestos Building Inspector. I also certify that I have thoroughly inspected the facility to be demolished, as listed in the Demolition Site block above, sampled all suspect materials, had all samples analyzed for the presence of asbestos by a NVLAP-accredited laboratory, and have determined that no Regulated ACM exists anywhere in the facility.* I also certify that I have informed the owner/operator of the facility or the demolition contractor that any asbestos-containing material allowed to stay in the facility must remain non-friable during demolition. Specify type(s) of ACM remaining, below: (check appropriate box(es)):						
	<input type="checkbox"/> Vinyl asbestos floor tile (VAT) <input type="checkbox"/> VAT mastic <input type="checkbox"/> Tar/asphalt impregnated roofing <input type="checkbox"/> Asphaltic pipe coatings <input type="checkbox"/> Spray-applied tar coatings <input type="checkbox"/> Caulking <input type="checkbox"/> Glazing <input type="checkbox"/> Other, specify:						
	Signature: (In Blue Ink)			Printed Name:			
Building Owner or Contractor	Date of Final Inspection	CO Cert #	Expiration Date	Telephone # ()	Cell Phone # ()		
	I verify that all refrigerants from air conditioning/refrigeration appliances have been properly recovered in accordance with AQCC Regulation No. 15 (for information on CFC requirements call 692-3100). I further verify that all luminous exit signs (containing radioactive material) have been disposed of in accordance with 6 CCR 1007-1 subpart 3.6.4.3 (for information on luminous exit sign requirements call 303-692-3320).						
	CHECK THE APPROPRIATE BOX:						
<input type="checkbox"/> Building Owner		<input type="checkbox"/> Contractor		<input type="checkbox"/> Other		Date:	
Signature:			Print Name:				
THIS BOX IS FOR CDPHE USE ONLY:							
Postmark or Hand Delivery Date:			Approved By:		Code: <input type="checkbox"/> initial-310 <input type="checkbox"/> transfer-380		
Form of Payment & #:			Permit #:	Record #	Date Issued:		

* Regulated asbestos-containing materials means (a) friable asbestos-containing material, (b) Category I nonfriable ACM that has become friable, (c) Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading or (d) Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations regulated by this regulation. Note: Asbestos-containing sheet vinyl and linoleum must be properly abated/removed prior to demolition.