Colorado Reclaimed Asphalt Shingle Workshop

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<table>
<thead>
<tr>
<th>OSHA Asbestos Regulations</th>
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<tr>
<td>1910.1001</td>
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<td>- All Occupational Exposures to asbestos in all industries covered by OSHA EXCEPT:</td>
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<td>- Construction</td>
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<td>- Shipyards</td>
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<td>- Includes scrap recycling</td>
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<td>- Sets several provisions employers must comply with based on air sampling results</td>
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<td>1926.1101</td>
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<td>- Includes demolishing; removing, clean up, etc.</td>
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<td>- Exposure Control Plan/Work Practices based on type of work being performed</td>
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General asbestos safety and health requirements

If workers will be exposed to asbestos on the job, employers must take measures to minimize their exposure by:
Asbestos Permissible Exposure Limits (PEL)

- 0.1 fibers per cubic centimeter of air (0.1 f/cc) 8-hour time weighted average
- 1.0 f/cc 30-minute short-term exposure limit

Asbestos Limits in the Air

Asbestos in the air at these levels would be invisible to the naked eye.

Air monitoring equipment on a worker
You must conduct periodic air monitoring of workers when:

- levels in the air are likely to be at or above the PEL
- there are change in process, controls, work practices or workers

Notify affected employees of results of air monitoring results.

Maintain exposure monitoring records for duration of employment + 30 years.
Exposure Control

Asbestos exposure must be controlled by one or more of the following engineering and work practices:

- Local exhaust ventilation with HEPA filter system
- HEPA-filtered vacuums
- Enclosure or isolation
- Wet methods of handling
- Prompt disposal
- Regular housekeeping

HEPA filter = high efficiency particulate air filter
More Exposure Control Requirements

Worker training
- Provide initially and annually
- Cover hazards, work practices, & safety procedures

Worker protection
- PPE: respirator, gloves, head and foot protection, coveralls
- Hygiene facilities: decontamination, change room

Decontamination shower
Respirator Program

Must develop a written program with worksite-specific procedures when respirators are necessary or required by the employer.

Must update program as necessary to reflect changes in workplace conditions that affect respirator use.

Must designate a program administrator who is qualified by appropriate training or experience to administer or oversee the program and conduct the required program evaluations.

Must provide respirators, training, and medical evaluations at no cost to the employee.
Communication of Hazards

Warning Signs
for regulated areas
visible before entering

Warning Labels
attached to all products
and their containers

AVOID BREATHING
AIRBORNE ASBESTOS FIBERS
Other Standards

- Machine guarding
- Electrical
- Lockout/Tagout
- Housekeeping
- Personal protective equipment
- Fall protection