

Chapter 27: [Asbestos](#)

## Class II and Class III Asbestos Work Requirements

Product ID: [490](#) | Revision ID: 1798 | Date published: 3 February 2016 | Date effective: 3 February 2016

URL: <http://www-group.slac.stanford.edu/esh/eshmanual/references/asbestosReqClass2.pdf>

### 1 Purpose

The purpose of these requirements is to ensure that worker exposure to asbestos remains below the *permissible exposure limit (PEL)* and that asbestos waste is properly handled and disposed of. These requirements cover *Class II* and *Class III asbestos work* and waste management and apply to workers and supervisors performing such work and the asbestos program manager.

### 2 Requirements

#### 2.1 Monitoring

The asbestos program manager performs work site monitoring as needed for all Class II and III asbestos work not performed by an *asbestos abatement subcontractor*.

#### 2.2 Listed Activities

All buildings and facilities built before 1981 are presumed to contain asbestos. *Asbestos containing material (ACM)* or *potential asbestos containing material (PACM)* used in the construction of SLAC buildings and facilities include

- Roofing material and patching compound
- Wallboard and joint compound
- Floor tiles, sheet flooring, and floor tile mastic
- Vehicle brake and clutch parts
- Glues and adhesives
- Acoustic ceiling and wall tiles
- Fire doors
- Electric cables
- Transite pipe and board
- Wall and ceiling insulation
- Machine and piping gaskets, vibration cloth, and cooling tower baffles

- Thermal system insulation (TSI) such as cement elbows and pipe wrap

For building-specific asbestos hazard information, see the [Asbestos Inventory](#) and/or contact the asbestos program manager.

The asbestos program manager has determined by air sampling that the following Class II and III asbestos work activities on buildings can be conducted without exceeding the PEL (negative exposure assessment). Nevertheless, all asbestos work must first be evaluated by the asbestos program manager – in particular any asbestos work not listed below.

Asbestos Work Activity	Required Controls	Waste Disposal
All Class II and III work	<ul style="list-style-type: none"> <li>▪ Contact asbestos program manager before beginning work (air sampling will be conducted as needed)</li> <li>▪ The authorizing supervisor and workers must be current in all required asbestos training</li> <li>▪ Do not use power tools except as noted below</li> <li>▪ Wear gloves</li> <li>▪ Clean wet dust with wet disposable towels promptly (do not allow any dust to dry or disperse)</li> <li>▪ <b>Additional controls as listed by activity below</b></li> </ul>	Obtain hazardous waste containment from Waste Management (WM) as appropriate <ul style="list-style-type: none"> <li>▪ Polyethylene waste bag, six millimeter thick (no DOT markings allowed)</li> <li>▪ Drums, bins, hoppers</li> </ul> Objects too large for a waste bag must be "burrito wrapped" with six millimeter polyethylene sheet (obtain from SLAC stores) Used gloves and disposable towels must be bagged with other asbestos waste. All asbestos waste must be disposed of by WM.
Removing floor tiles	<ul style="list-style-type: none"> <li>▪ Limit work to two hours per day or one waste bag</li> <li>▪ Use spray bottle with soapy water to wet floor before and after removing floor tiles</li> </ul>	Fill waste bag no more than half full
Removing transite panels (30 percent asbestos)	<ul style="list-style-type: none"> <li>▪ Wet bolts using spray bottle with soapy water as they are being removed</li> </ul>	Avoid breaking panels; collect wet dust with a paper towel
Cutting transite pipe	<ul style="list-style-type: none"> <li>▪ Use only manual tools with a chain pipe cutter (snap cutter); do not use power tools</li> <li>▪ Keep surfaces wet during work (use water hose)</li> </ul>	If too large for waste bag, "burrito wrap" and label Contact WM for guidance on proper storage and containment
Removing wallboard	<ul style="list-style-type: none"> <li>▪ Asbestos program manager must be present during work to take air samples</li> <li>▪ Limit work so that none of these conditions are exceeded on any one day: one hour work, one bag of waste, a few square</li> </ul>	If too large for waste bag, "burrito wrap" and label Contact WM for guidance on proper storage and

Asbestos Work Activity	Required Controls	Waste Disposal
	feet of wall board removed <ul style="list-style-type: none"><li>Wet area with spray bottle or Hudson sprayer with soapy water to wet before, during, and after wallboard removal</li><li>Remove in large pieces if possible</li><li>Do not break up wall board unless necessary</li></ul>	containment
Drilling into floor tiles	<ul style="list-style-type: none"><li>Limit number of holes drilled to 30 per day</li><li>Wet floor before drilling using spray bottle with soapy water and to wet dust after drilling</li></ul>	Collect wet dust with a paper towel
Roof core removal, roof cutting	<ul style="list-style-type: none"><li>Wet the surface before, during, and after cutting/drilling using spray bottle with soapy water</li><li>Limit number of cores drilled to 20 per day</li></ul>	Collect wet dust with a paper towel
Removing electric cables	<ul style="list-style-type: none"><li>Tape and wet the area that needs to be cut</li><li>Minimize cable movement</li></ul>	Fill waste bag no more than half full

### 3 Forms

The following forms are required by these requirements:

- None

### 4 Recordkeeping

The following recordkeeping requirements apply:

- The asbestos program manager maintains work site monitoring results for all Class II and III asbestos work not performed by an asbestos abatement subcontractor.

### 5 References

[SLAC Environment, Safety, and Health Manual](#) (SLAC-I-720-0A29Z-001)

- [Chapter 27, “Asbestos”](#)
  - [Asbestos Inventory](#)
- [Chapter 17, “Hazardous Waste”](#)