

CHART FOR ASBESTOS OPERATIONS

Use this chart to determine the “Type” of asbestos procedure and required respirator.

How to use the chart

- Use this chart with CSAO’s data sheet *Asbestos: Controls for Construction, Renovation, and Demolition* (DS037). It will clarify any details. You can order the data sheet from CSAO or download it free from www.csa.org. (You can also download a colour version of this chart).
- Start in the middle of the chart and work outwards.
- Your goal is to reach the boxes that will tell you the “Type” of removal (Type 1, 2, or 3) and the respirator you require.
- The outside circle of the chart tells you what kind of respirator you need. We’ve used A, B, C, and D to represent different kinds of respirators. The respirator table below explains what each of the letters means.
- For two categories of operations, the chart asks you to determine the size of the material you’re working with. Once you choose the size (area in m²), you have to stay within the colour (shading) of the size until you get to the “Type” ring. For example, if you’re removing ceiling tiles, and the area is greater than 7.5 m², you have to stay within the area of the chart that is coloured the same dark grey as the “Greater than 7.5 m²” cell (**this includes the striped area**) until you get to the “Type” ring. You must not move into to the light-grey areas which are for operations of less than 7.5 m².

LEGEND

ACM means asbestos-containing material.

HEPA or **No HEPA** refers to whether your tool is attached to a dust-collecting device equipped with a High-Efficiency Particulate Aerosol (HEPA) filter.

Wetted or **not wetted** refers to the practice of wetting the asbestos-containing material with “amended water,” (such as a mixture of 1 cup dishwashing detergent for every 20 litres of water).

See the third page of this chart for another example of how to use the chart.

- **When you know the “Type” of removal, you need to implement the required controls.** The controls for each type of operation are listed in the asbestos regulation (Ontario Regulation 278/05, *Designated Substance—Asbestos on Construction Projects and in Buildings and Repair Operations*). To help you understand the regulation’s requirements, CSAO has produced a guide called *Asbestos: Controls for Construction, Renovation, and Demolition* (DS037). You can order both of these publications from CSAO or download them free from www.csa.org.

RESPIRATORS

A*	B	C	D
Air-purifying half-mask respirator with N-100, R-100, or P-100 particulate filter. The worker must wear the respirator if they request it from the employer.	Choose any of the following: <ul style="list-style-type: none"> ➤ Air-purifying full-facepiece respirator with N-100, R-100, or P-100 particulate filter. ➤ Powered air-purifying respirator with a tight-fitting facepiece (either full or half facepiece) and a high-efficiency filter. ➤ Negative-pressure (demand) supplied-air respirator with a full facepiece. ➤ Continuous-flow supplied-air respirator with a tight-fitting facepiece (full or half facepiece). 	Pressure-demand supplied-air respirator with a half facepiece.	Pressure-demand supplied-air respirator with a full facepiece.

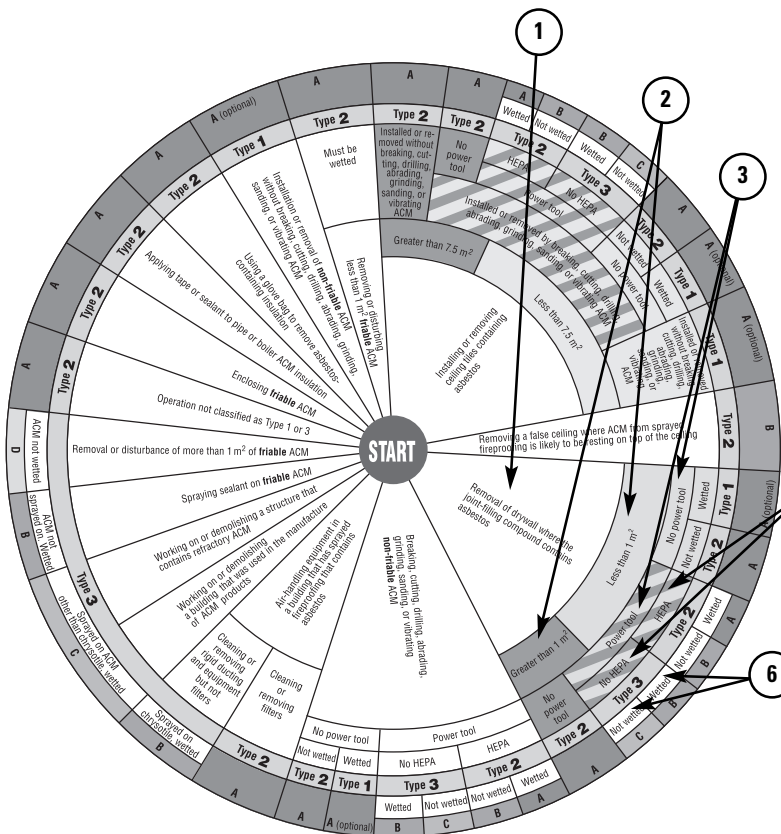
Disposable respirators or dust masks are not recommended for avoiding exposure to asbestos fibres because it’s difficult to perform negative-pressure and positive-pressure seal checks. For more information on seal checks, see Appendix F of CSAO’s *Asbestos: Controls for Construction, Renovation, and Demolition* (DS037), available on www.csa.org

* For any Type 2 operation in which you will **not** wet the asbestos-containing material, CSAO recommends that you use a category **B** respirator.

Example of how to use the chart

- Let's say you want to remove drywall where the joint-filling compound contains asbestos. The first thing you do is find the slice of the pie that says this. (To the right and a bit below "START".)
- You then move outward and see what decision you need to make. In this case, you need to decide how much drywall you will be removing (greater than 1 m² or less than 1 m²). Let's say that you will be removing less than 1 m².
Notice that the "colour" of the box is light grey.
- Staying within the light grey colour, move outward and see what decision you need to make. You need to decide if you will use a power tool or not. ("Power tool" is an option despite the dark stripes because the area still contains some light grey.) Let's say you will be using a power tool for the removal.
- The next step asks if your power tool is attached to a dust-collecting device equipped with a HEPA filter. If it doesn't have a HEPA filter, then your project is a **Type 3** asbestos operation.

- Now that you know the "Type" of your operation, you need to learn your legal requirements and the controls you must use. Refer to the documents listed on the page opposite the chart (under "When you know the "Type" of removal").
- To determine what respirator you require, move one step further in the circular chart, and decide whether you will wet the material with "amended water" (see the page opposite the chart). If you're performing a dry removal, the **respirator type will be C**.
- Look at the respirator table on the page opposite the circular chart, and see what respirator "C" represents. It is a **pressure-demand supplied-air respirator equipped with a half facepiece**. This is the kind of respirator you need.



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 * For any Type 2 operation in which you will not wet the asbestos-containing material, CSAO recommends that you use a category B respirator.