



## INDOOR AIR QUALITY

Canadians spend close to 90% of their time inside. Most people are unaware of the effects that poor indoor air quality can have on their health.<sup>1</sup>



Products with **FloorScore** label meet indoor air quality emission criteria of LEED and other healthy building programs; however FloorScore does not test for heavy metal or phthalates.

Cadmium and lead are human carcinogens. These heavy metals cause cancer and adverse developmental and reproductive health effects.<sup>3</sup>

## WHAT IS YOUR FLOOR MADE OF?



"It's a largely opaque market," says Peter Syrett, senior designer for Perkins + Will. "When we buy a product from Home Depot, or build anything, there's no way for a consumer to know what a product is made of unless the manufacturer tells you, and only a handful of them do."<sup>2</sup>

**HARBINGER** is made with 100% virgin PVC to guarantee a consistent product free of heavy metal, phthalate and phenol.



**HEAVY METAL FREE**  
**PHENOL FREE**  
**PHTHALATE FREE**



ELEMENT Result > 40 ppm would be of concern <sup>4</sup>	HARBINGER 100% VIRGIN PVC	PRODUCT X Recycled and virgin PVC <sup>1</sup>
<b>CADMIUM (Cd)</b> May cause adverse health effects even at low levels. Long term exposure: lung and prostate cancer, kidney disease etc.	< 0.1 ppm **	64.5 ppm
<b>LEAD (Pb)</b> Low level exposure: loss in appetite, abdominal pain, constipation etc. Especially dangerous for pregnant women and children.	< 0.1 ppm **	10.1 ppm
<b>SELENIUM (Se)</b> Long term exposure: fatigue, gastrointestinal symptoms, peripheral neuropathy etc.	< 0.1 ppm **	33.4 ppm

ELEMENT ASTM F963 Heavy Metal Analysis (Feb. 2016)	HARBINGER 100% Virgin PVC	PRODUCT X Recycled and Virgin PVC <sup>1</sup>
Arsenic (AS)	< 0.1 ppm**	< 0.1 ppm
Barium (Ba)	< 0.1 ppm**	< 0.1 ppm
Chromium (Cr)	< 0.1 ppm**	< 0.1 ppm
Silver (Ag)	< 0.1 ppm**	< 0.1 ppm
Mercury (Hg)	< 0.1 ppm**	< 0.1 ppm

<sup>1</sup>Heavy metal test results of **recycled PVC flooring** will vary. Depending on what was recycled that day, the results can be high or low.

<sup>2</sup>ASTM F963 Heavy Metal Analysis detection limit is 0.1ppm. 0.1ppm is the lowest concentration of a compound that can be measured reliably by the analytical method.

1. Health Canada (2015, March 20). *Indoor Air Quality*. Retrieved from [www.hc-sc.gc.ca](http://www.hc-sc.gc.ca)

2. Westervelt, A. (2012, August 8). *How Our Buildings Are Making Us Sick*. Retrieved from [www.forbes.com](http://www.forbes.com)

3. American Cancer Society (2015, October 10). *Known and Probable Human Carcinogens*. Retrieved from [www.cancer.org](http://www.cancer.org)

4. United States Environmental Protection Agency (2016, February 23). *Cadmium Compounds*. Retrieved from [www.epa.gov](http://www.epa.gov)