

Risk Assessment

In response to the Report of the Commission of Inquiry into Excess Lead found in Drinking Water -

Recommendation para. 487 (12)

“HA should in consultation with WSD, review all the materials to be used in the construction of PRH estates with a view to identifying the potential hazards and contamination in the drinking water, and revising the project specifications as necessary.”

Recommendation para. 487 (13)

“HA should put in place a robust system to monitor the compliance of the plumbing installations with the project specifications by main contractors and subcontractors.”

We have commenced -

- 1) A Risk Assessment exercise on all building materials used in
 - Architectural 1000+
 - Building Services 600+
 - Structural 60+
 as set out in the HKHA Specification Library 2014 Edition

- 2) To manage the risk on contractors using materials deviated from the Specification
 - Embracing a wider scope which includes but not limited to plumbing installations
 - Making reference to ISO 31000 : Risk Management – Principles and Guidelines

Framework -

Risk is rated in terms of a combination of “Likelihood” & “Consequence”

Likelihood L (chances of occurrence)	Frequent 5	5	10	15	20	25
	Likely 4	4	8	12	16	20
	Possible 3	3	6	9	12	15
	Unlikely 2	2	4	6	8	10
	Rare 1	1	2	3	4	5
			1	2	3	4
		Insignificant	Minor	Moderate	Major	Catastrophic

Risk Level = L x C

Consequence C
(magnitude of impact)

“Likelihood” aspects

Likely occurrence of the following aspects leading to non-compliance –

- 1) Financial Benefit
- 2) Effort Saving
- 3) Escape from Checking
- 4) Lack of Awareness/Knowledge
- 5) Lack of Skill/Workmanship
- 6) Deficiency Record
- 7) New Material

“Consequence” aspects

Assess the consequence (magnitude of impact) of the risk under the following scenarios -

- 1) Statutory Non-compliance
- 2) Functionality
- 3) Safety of workers, users, properties
- 4) Health of workers, users
- 5) Project Progress

Final results of the risk assessment will form the basis for establishing the material control mechanism -

Incorporate into the enhanced quality control system on material compliance checking and monitoring which will include updating of -

- contract requirements
- specifications
- technical guides
- site inspection procedures

**Transport and Housing Bureau
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