



Investigation of Rainfall Contact on Roof Tiles

RE: DECRA Roofing Systems

In a test performed by a third-party laboratory, with regards to the drinking water quality of rainwater in contact with DECRA Roofing Systems products, it was determined that heavy metal and organic concentrations are extremely low. Furthermore the run-off would be odorless, tasteless and colorless with an extremely low turbidity.

“In summary, the run-off water would meet World Health Organization (WHO) physical and chemical criteria for drinking water quality.”

For testing and consistency purposes, rainwater was laboratory produced.

Rainwater is variable across regions; atmospheric conditions should be considered in actual use. Water collected during the first or second rain fall after extended dry periods can be contaminated by dirt accumulation. These roofs do not add any contamination to the rain water.

Parameters	Average in Duplicate Results Water Concentration		WHO Criteria
	50mm/hr (8 hrs)	5mm/hr (8 hrs)	
Color	<5	<5	5
Turbidity	<1	<1	5
Odor	Not Objectionable	Not Objectionable	Not Objectionable
Taste	Not Objectionable	Not Objectionable	Not Objectionable
Dissolved Salts	7	4	500
Nitrate as N	0.12	<0.01	10
Zinc	0.02	0.01	5
Cadmium	<0.001	<0.001	0.005
Nickel	<0.01	<0.01	0.01
Iron	<0.01	0.05	0.1
Chromium	<0.01	<0.01	0.05
Lead	<0.01	<0.01	0.05
Mercury	<0.001	<0.001	0.001
Arsenic	<0.001	<0.001	0.05
Volatile Organic Hydrocarbons	<0.1	<0.1	0.3
Chlorinated Hydrocarbons	<0.1	<0.1	0.1
Poly Aromatic Hydrocarbons	<0.01	<0.01	0.01
Triazine Derivations	<2	<2	2