

Hong Kong Green Label Scheme
Product Environmental Criteria for
Building Materials Made of Fly Ash (GL-008-001)



BACKGROUND

The Hong Kong Green Label Scheme (HKGLS) is an independent and voluntary scheme which aims to identify products that are, based on life cycle analysis consideration, more environmentally preferable than other similar products with the same function. The Scheme is organized by the Green Council (GC) with contributions from the HKGLS Advisory Committee and a number of supporting organizations.

The prime objectives of HKGLS are:

- For Consumers: assist in making purchases of products that are less harmful to the environment;
- For Industry: stimulate development and production of environmentally preferable alternatives.

This specification sets out the requirements that building materials made of fly ash will be required to meet in order to be licensed to use the HKGLS label. The requirements include environmental criteria and product performance characteristics. The specification also defines the testing and other means to be used to verify conformance with the environmental criteria and product characteristics.

POTENTIAL ENVIRONMENTAL IMPACTS

Tremendous quantity of fly ash is produced every day from the power-generating plants in Hong Kong. The fly ash, if not being recycled, would have to be disposed of as waste. The disposal of fly ash waste burdens our environment through the utilization of the land use for storage, transportation process, and the consumption of the already very limited landfill space.

LABEL OBJECTIVE

The aim of the environmental criteria developed for building materials made of fly ash is to:

- Promote waste avoidance and conservation of resources; and
- Conserve landfill space and promote the concept of recycling.

PRODUCT DEFINITION

This document and all product environmental criteria therein apply to building materials and auxiliary building materials that are made of recycled fly ash produced by power stations.

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PRODUCT ENVIRONMENTAL CRITERIA

The table below sets out the product environmental criteria for building materials made of fly ash (GL-008-001) under the HKGLS.

Criteria	Verification Method
1. The product shall contain at least 25% fly ash recycled content.	C, D
2. The durability of the product shall be equivalent to that of conventional products of same function.	C
3. General packaging requirements (refer to criteria for packaging materials: GL-Packaging).	B, C, D

Legend:

- A- Analytical testing shall be performed by laboratories that meet the requirement laid out in the EN45001 standards or any equivalent systems (e.g. HOKLAS, IEC/ISO 17025)
- B- Inspection of product samples
- C- Review of supporting information as required by the GC
- D- Interviews with relevant personnel and/or site visits to relevant facilities