

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.

Product Environmental Criteria	Verification Methods*
1. The product shall contain at least 25% fly ash recycled content.	<ul style="list-style-type: none"> ✓ Review of supporting information; AND ✓ Performance of an on-site factory visit; AND ✓ Interview with relevant personnel. <p>The gross weight of the product shall be specified, along with the components of the products, in weight per cent or in per cent by volume.</p>
2. The durability of the product shall be equivalent to that of conventional products of same function.	<ul style="list-style-type: none"> ✓ Review of supporting information; <p>A <i>declaration</i> of conformity of the product with authorized person signature and all relevant supporting documents shall be submitted</p>
3. General packaging requirements (refer to criteria for packaging materials: GL-Packaging).	<ul style="list-style-type: none"> ✓ Inspection of product samples; AND ✓ Review of supporting information; AND ✓ Interview with relevant personnel. <p>A <i>declaration</i> of conformity of the product with the requirements shall be submitted</p>

*Analytical testing should be accredited and performed by laboratories that meet the requirement laid out in the IEC/ISO 17025 or EN45001 standards or any equivalent systems e.g. HOKLAS, CNAS. Under special situation and with the approval from GC, test can be performed by in-house method by the accredited laboratory or manufacturer.