

Summary of Decisions of the Structural Engineering Committee
SEC 18/2011 held on 24.11.2011

(a) Case 18/2011

Issue: Use of proprietary R-CAST[®] monolithic acrylic panels for construction of a swimming pool

Recommendation: To accept the use of proprietary R-CAST[®] monolithic acrylic panels for construction of a swimming pool on the following condition:

- (i) A full-scale on-site loading test to confirm the structural performance of the acrylic panels under service load shall be carried out. The test report shall be submitted for BD's acceptance prior to the application of occupation permit.

Decision: Members considered the RSE should submit further information as listed below for their consideration of the application:

- (a) Justification of the adoption of a 10 years service life as basis of the design and substantiation of the factor of safety adopted;
- (b) A detailed account on strength changes of the R-CAST[®] monolithic acrylic panels over time within the design life, taking into consideration any adverse effects arises from temperature variation, UV etc.
- (c) A quality control and quality assurance plan covering production, delivery and installation of the R-CAST[®] monolithic acrylic panels ;
- (d) Justifications on the testing procedures and acceptance criteria for the proposed full-scale loading test; and
- (e) Reference of the deflection limit.