

Summary of Decisions of the Structural Engineering Committee  
SEC 06/2012 held on 29.03.2012

(a) Case 06/2012

Issue: Use of proprietary R-CAST<sup>®</sup> monolithic acrylic panels for construction of a swimming pool

Recommendation: To accept the use of proprietary R-CAST<sup>®</sup> monolithic acrylic panels for the construction of a swimming pool subject to the following conditions:

- (1) Based on the recommended design parameters given in ASME – PVHO -1 (Safety Standard for Pressure Vessels for Human Occupancy published by The American Society of Mechanical Engineers) to adopt a maximum 10 years design life as the basis of design with consideration on the location of swimming pool. In this special situation, the owner has committed to replace the acrylic panels after their 10 years design life.
- (2) Destructive tensile tests will be carried out on samples cut out from the acrylic panels after the casting at the mill to ASTM D638 in this particular case.

Decision: Noting RSE's justifications, members endorsed the recommendations.