

Summary of Decisions of the Structural Engineering Committee
SEC Meeting 8/2015 held on 24.11.2015

Case 34/2015

Issue: Use of Laminated Glass with SentryGlas® Plus (SGP) Interlayer and Titanium Insertion Connections

Recommendation: (1) The laminated glass panels bonded by SentryGlas® Plus (SGP) adopting composite action for structural design on condition that the structural stiffness of the laminated glass panel should be limited to 45% of the structural stiffness of an equivalent monolithic glass pane of thickness equals to the sum of thickness of the individual glass panes including the thickness of the SGP interlayers in the proposed laminated glass panel.

(2) Connections consist of titanium inserts bonded by SGP for transferring loads from laminated glass (annealed) treads and landings to stainless/mild steel stringers.

Decision: Having noted the background information, the precedent case and the scope of application, members endorsed the recommendations subject to the following imposed condition:

(1) Proof tests should be conducted to verify the structural performance and design assumptions of the proposed degree of composite action for laminated glass panel in supporting imposed loads of medium term duration, and the test report should be submitted prior to the completion of works. Corresponding testing proposal including the testing standard, methodology and acceptance criteria should also be submitted for agreement prior to the application of consent for the commencement of works.