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Structural Design of Glass

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Keywords

1=Glass 2=Wind Loading 3= Strength 4=Deflection 5=Structural Glazing

ABSTRACT

This paper investigates the different approaches taken internationally in the design and engineering of glazing of buildings. Primarily it focuses on ASTM, BS/EN, AS/NZ, PRC and India Standards, for wind loading and the design of glass.

Wind load calculations, limit state factors, and structural properties of glass and adhesives vary between countries, and it is therefore important to understand these differences, their impact globally and on developing countries in particular. Mixing design criteria between countries is a very common problem which needs to be addressed.

It is therefore intended that a series of clear recommendations be provided that clarify various approaches to glass engineering calculations.