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Dynamic responses of a steel-reinforced concrete target impacted by aircraft models

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Highlights

- Three experiments of aircraft models impacting upon the steel-reinforced concrete targets were carried out.
- The applicability of the modified Riera equation used to estimate the impact loads of the aircraft models is verified.
- The value range of the correction coefficient α in the modified Riera equation for the aircraft models is determined.
- The characteristic of the impact load in the three experiments is analyzed.
- An engineering calculation method and a formula to calculate the aircraft's impact load are proposed.

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