



CSA S850:23
National Standard of Canada



Design and assessment of buildings subjected to blast loads



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CSA S850:23

***Design and assessment of buildings
subjected to blast loads***



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Preface

This is the second edition of CSA S850, *Design and assessment of buildings subjected to blast loads*. It replaces the previous edition published in 2012.

This Standard is intended for use in the design of new buildings and assessment of existing buildings to resist defined blast threats.

While building security, within the context of building protection against blast threats, is beyond the scope of this Standard, it is an essential aspect to evaluating or modifying the design threat and thus must be well understood by the designer.

The following are the major changes to this edition:

- a) load combinations involving accompanying gravity loads have been revised;
- b) dynamic increase factor tables have been updated, with a new DIF for bond between concrete and reinforcement;
- c) response limits for wood buildings have been updated; and
- d) Clause [9.2.9](#) has been added on precast and prestressed concrete buildings with a new table for response limits for prestressed concrete elements.

Although not specifically identified, users should be aware that the authority having jurisdiction might have additional approval requirements, which are outside of the scope of this Standard. See Clause [A.1](#) for additional information on regulatory compliance.

CSA Group acknowledges that the development of this Standard was supported by Global Affairs Canada with financial support from National Defence: Defence Research and Development Canada's Centre for Security Science.

This Standard was prepared by the Technical Committee on Blast Resistant Buildings, under the jurisdiction of the Strategic Steering Committee on Construction and Civil Infrastructure, and has been formally approved by the Technical Committee.

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