



Rapid Visual Screening of Buildings for Potential Seismic Hazards: A Handbook

Third Edition

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FEMA



Rapid Visual Screening Of Buildings For Potential Seismic Hazards Supporting Documentation

**Federal Emergency Agency,U. S.
Department Security**



Rapid Visual Screening Of Buildings For Potential Seismic Hazards Supporting Documentation:

Rapid Visual Screening of Buildings for Potential Seismic Hazards; A Handbook Federal Emergency Management Agency,1988 **Rapid Visual Screening of Buildings for Potential Seismic Hazards: Supporting Documentation** ,2015 The Rapid Visual Screening RVS handbook can be used by trained personnel to identify inventory and screen buildings that are potentially seismically vulnerable The RVS procedure comprises a method and several forms that help users to quickly identify inventory and score buildings according to their risk of collapse if hit by major earthquakes The RVS handbook describes how to identify the structural type and key weakness characteristics how to complete the screening forms and how to manage a successful RVS program **Rapid Visual Screening of Buildings for Potential Seismic Hazards** ,1993-07 Graphs and data sheets **Rapid Visual Screening of Buildings for Potential Seismic Hazards** Estados Unidos. Federal Emergency Management Agency,2002 [Rapid Visual Screening of Buildings for Potential Seismic Hazards](#) National earthquake Hazards reduction program,1988 [Rapid Visual Screening of Buildings for Potential Seismic Hazards](#) Federal Emergency Management,1988 **Rapid Visual Screening of Buildings for Potential Seismic Hazards** ,2002 [Rapid Visual Screening of Buildings for Potential Seismic Hazards: A handbook](#) ,2002 [Rapid Visual Screening of Buildings for Potential Seismic Hazards : a Handbook](#) Federal Emergency Management Agency (U.S.),2017-08-03 The Rapid Visual Screening RVS handbook can be used by trained personnel to identify inventory and screen buildings that are potentially seismically vulnerable The RVS procedure compromises a method and several forms that help users to quickly identify inventory and score buildings according to the risk of collapse if hit by major earthquakes This third edition includes extensive updates including Update of the Basic Scores and Score Modifiers Update of the ground motion definitions Preparation of additional reference guides Inclusion of additional building types that are prevalent Inclusion of additional considerations such as nonstructural hazards existing retrofits building additions and adjacency Addition of an optional electronic scoring methodology and more Related products Natural Environmental Disasters resources collection is available here [https://bookstore.gpo.gov/catalog/natural environmental disasters](https://bookstore.gpo.gov/catalog/natural%20environmental%20disasters) Other products produced by the U S Department of Homeland Security Federal Emergency Management Administration FEMA are available here <https://bookstore.gpo.gov> agency federal emergency management agency fema **Rapid Visual Screening of Buildings for Potential Seismic Hazards: A Handbook** Federal Emergency Agency,U. S. Department Security,2013-04-03 This FEMA 154 Report Rapid Visual Screening of Buildings for Potential Seismic Hazards A Handbook is the first of a two volume publication on a recommended methodology for rapid visual screening of buildings for potential seismic hazards The technical basis for the methodology including the scoring system and its development are contained in the companion FEMA 155 report Rapid Visual Screening of Buildings for Potential Seismic Hazards Supporting Documentation The rapid visual screening procedure RVS has been developed for a broad audience including building officials and inspectors and government agency and private

sector building owners to identify inventory and rank buildings that are potentially seismically hazardous. Although RVS is applicable to all buildings, its principal purpose is to identify 1) older buildings designed and constructed before the adoption of adequate seismic design and detailing requirements, 2) buildings on soft or poor soils, or 3) buildings having performance characteristics that negatively influence their seismic response. Once identified as potentially hazardous, such buildings should be further evaluated by a design professional experienced in seismic design to determine if, in fact, they are seismically hazardous. The RVS uses a methodology based on a sidewalk survey of a building and a Data Collection Form which the person conducting the survey, hereafter referred to as the screener, completes based on visual observation of the building from the exterior and, if possible, the interior. The Data Collection Form includes space for documenting building identification information, including its use and size, a photograph of the building, sketches, and documentation of pertinent data related to seismic performance, including the development of a numeric seismic hazard score. Once the decision to conduct rapid visual screening for a community or group of buildings has been made by the RVS authority, the screening effort can be expedited by pre-planning, including the training of screeners and careful overall management of the process. Completion of the Data Collection Form in the field begins with identifying the primary structural lateral load resisting system and structural materials of the building. Basic Structural Hazard Scores for various building types are provided on the form, and the screener circles the appropriate one. For many buildings viewed only from the exterior, this important decision requires the screener to be trained and experienced in building construction. The procedure presented in this Handbook is meant to be the preliminary screening phase of a multi-phase procedure for identifying potentially hazardous buildings. Buildings identified by this procedure must be analyzed in more detail by an experienced seismic design professional. Because rapid visual screening is designed to be performed from the street, with interior inspection not always possible, hazardous details will not always be visible, and seismically hazardous buildings may not be identified as such. Conversely, buildings initially identified as potentially hazardous by RVS may prove to be adequate.

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