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Special Truss
Moment Frame
Design Guide

Special Truss Moment Frame Design Guide

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(STMF) with Short
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1-2 **Moment Frame
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**What is a Special
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How to Install a
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~~One Side Plate Bolted
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beam? | Design
Squad *braced and*~~

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*rigid frame Basics of
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THE ENGINEER—
WHAT IS A MOMENT
CONNECTION?*

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to the Seismic
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Roof with Larry Haun
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wall, and moment-
resisting frame Steel
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Calculations Special

Read Free Special Truss Truss Moment Frame Design

The special truss moment frames (STMF) consist of steel columns and open-web truss girders rigidly connected to form effective seismic load-resisting systems (Itani and Goel, 1991). The truss girder has a special

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segment designed to
behave inelastically
under earthquake
loads while the other
members outside the
special segment
remain elastic.

~~Design of Special
Truss Moment
Frames Considering~~

...

The special truss
moment frames

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(STMF) consist of steel columns and open-web truss girders rigidly connected to form effective seismic load-resisting systems (Itani and Goel, 1991).

~~(PDF) Design of
Special Truss
Moment Frames
Considering ...~~

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This paper presents the results of a study in which a recently developed performance-based plastic design (PBPD) methodology was used to design the special truss moment frame (STMF) system rather than conventional elastic method. This newly developed

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Moment-Frame
Performance-based
method has been
successfully applied
to moment frames
and also extended to
eccentrically braced
frames, buckling-
restrained braced
frames, and
centrically braced
frames.

~~Performance-Based
Plastic Design of~~

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This study investigated the progressive collapse resisting capacity of the special truss moment frames (STMF) structures. To this end analysis model structures with vierendeel special segment were designed per the

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AISC (American
Institute of Steel
Construction) Seismic
Provisions.

~~The Design of Special
Truss Moment
Frames Against ...~~

The special truss
moment frame
(STMF) is a relatively
new type of steel
framing system
suitable for high

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seismic areas. The
frames dissipate
earthquake energy
through ductile
special segments...

~~Performance-based
plastic design of
special truss moment~~

...

The standard moment
frame design requires
100% visual
inspection and

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ultrasonic testing which is eliminated when using the Tru-Frame® system. Since all the Tru-Frame® connections are either "Tension Control" bolts or single pass fillet welds they can be visually inspected any time after completion without need for additional testing.

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The Spectrus Group™
—What Is Tru—
Frame®?

Moment Frames.

Design requirements for steel special moment frames are contained in a series of standards.

ASCE/SEI 7-05,
Minimum Design
Loads for Buildings
and Other Structures

Read Free Special Truss (ASCE 2006), referred hereafter as ASCE 7, sets the

basic loading criteria
for steel special
moment frames
together with
associated lateral drift
limits.

~~Seismic Design of
Steel Special Moment
Frames~~

The Manual, for the

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most part, focuses on the design of the lateral system for the same simple, regular rectangular bay frame with each of the major braced- and moment-frame lateral system types, in both $R = 3$ and high-seismic applications. Detailed design examples are provided to highlight special design and

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Detailing requirements
for these systems
when designed to
resist seismic
demands.

~~AISC Seismic Design
Manual: Moment
Frames | New
Horizons ...~~

provides detailed
design requirements
relating to materials,
framing members,

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Moment Frame
connections and
construction quality
assurance. It requires
that moment
connections used in
special or
intermediate steel
moment frames be
demonstrated, by
testing, to be able to
provide the necessary
ductility. Two means
of demonstration are
acceptable.

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~~What Makes a
Special Moment
Frame SPECIAL?~~

Special Truss
Moment Frame •
Buckling and yielding
in special section •
Design to be elastic
outside special
section • Deforms
similar to EBF •
Special panels to be
symmetric X or

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Moment Frame
Instructional Material
Design Guide
Complementing
FEMA 1051, Design
Examples Steel
Structures - 55

~~Structural Steel
Design~~

A truss is essentially a triangulated system of straight interconnected structural elements.

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Design Guide

The most common use of trusses is in buildings, where support to roofs, the floors and internal loading such as services and suspended ceilings, are readily provided. The main reasons for using trusses are:

- Long-span, curved roof trusses

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SteelConstruction.info

The special truss moment frame (STMF) is a relatively new type of steel framing system suitable for high seismic areas. The frames dissipate earthquake energy through ductile special segments located near the mid-

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Moment Frames.
Design Guide
~~Performance-based
plastic design of
special truss moment~~

...

Design of special
truss moment frames
considering
progressive In this
study the progressive
collapse resisting
capacity of the
Special Truss

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Moment Frames
Behavior of Steel
Double-Channel Built-
Up Chords of Special
Truss Moment
Frames under
Reversed Cyclic
Bending

~~STMF – Special Truss
Moment Frames |
AcronymAttic~~

An alternative,
innovative detailing

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and design of special truss moment frames (STMF) with a type of energy dissipating device, namely the buckling restrained brace (BRB) is proposed. The design methodology is based on the performance-based plastic design procedure proposed by Chao and Goel . This energy-based

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Methodology is demonstrated to be very accurate, by means of series of nonlinear time-history analyses.

~~Damage avoidance
design of special truss
moment frames ...~~

Special truss moment frame (STMF) is a relatively new type of steel framing system

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that was developed for use in high seismic areas. The frames dissipate earthquake energy through ductile special segments located near the mid-span of the truss girders (Fig. 1 a). STMFs generally have good structural redundancy

~~PERFORMANCE~~

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BASED SEISMIC
DESIGN OF
SPECIAL TRUSS
MOMENT ...

ABSTRACT Design provisions of the Cold-Formed Steel?Special Bolted Moment Frame (CFS?SBMF) system in the proposed AISI Seismic Standard (AISI S110) are developed such that energy dissipation in

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the form of bolt slippage and bearing in the bolted beam-to-column moment connections would occur during a major seismic event.

~~Cold-Formed Steel
Special Bolted
Moment Frames:
Capacity ...~~

The US design code provisions for steel

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special truss moment frames (STMFs) were formulated based on research work carried out in the 1990s with double-angle sections as truss members. To provide the higher capacity needed for STMFs in high-seismic zones, stronger members using double channels are

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~~Full Scale Testing
and Design of Special
Truss Moment ...~~

The special moment truss frame of this invention is seen to be a replacement for the wide-flange steel beams currently utilized in moment resisting frame construction

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techniques. This
invention arose, after
a University of
Michigan study that
resulted in a study of
a draft guide for
designing special
moment—resisting
truss frames was
released.

~~Special moment truss
frame—JD2, Inc.~~
The special truss

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Moment Frame

(STMF) is a seismic load-resisting system

that consists of horizontal truss floor beams with specially designed segments that are expected to act as seismic fuses. This framing system is known to provide higher lateral stiffness with relatively less weight as compared

Read Free
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to conventional
moment resisting
frames.

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