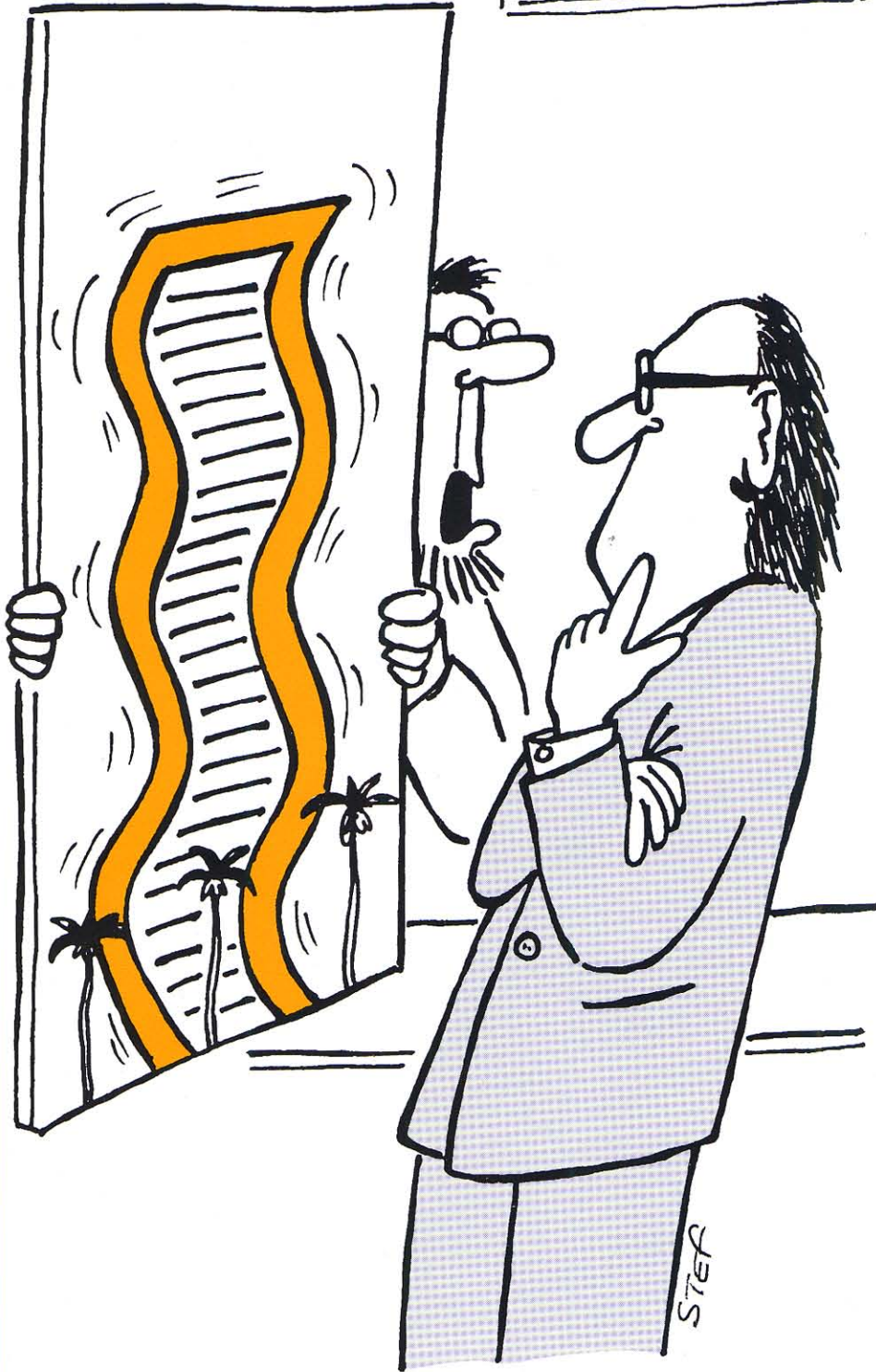


ART GALLERY



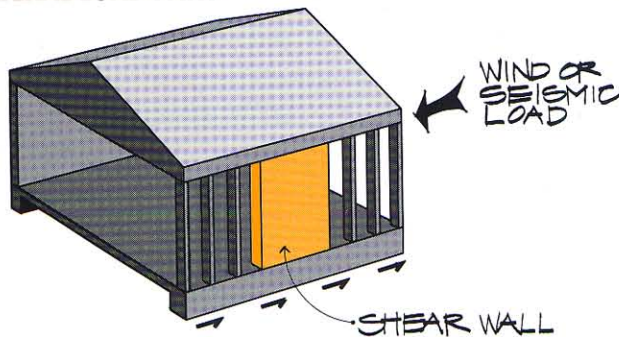
"This one's called California Building in Motion"



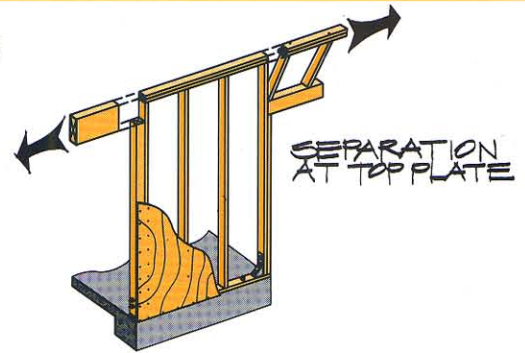
BUILDING ANALYSTS

WHY SOME SHEAR WALLS FAIL

BASIC LATERAL LOAD PATH



DRAG FAILURE

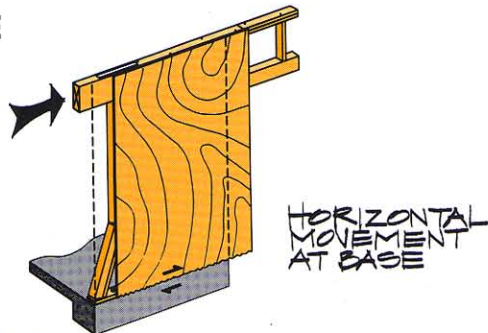


- Missing/inadequate top plate straps.
- Insufficient top plate splice.
- Undersized top plate.

POTENTIAL DAMAGE

- Cracked finishes.
- Water intrusion.
- Ruptured plumbing and gas lines.
- Partial or total collapse of framing.

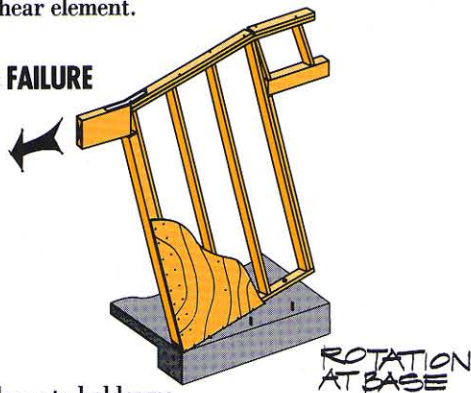
SHEAR FAILURE



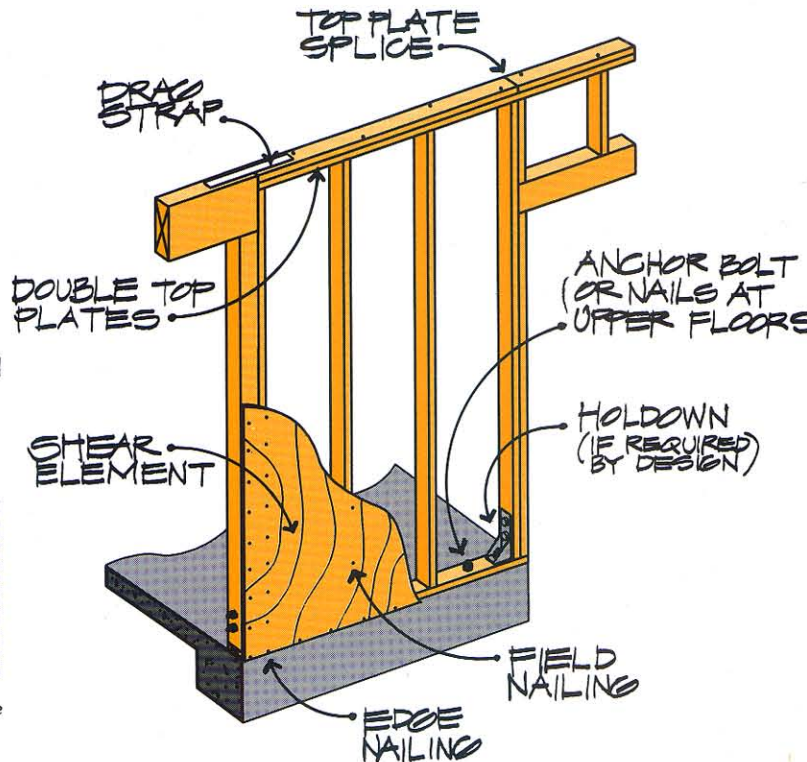
- Improper soleplate anchorage.
- Improper nailing of shear element (i.e. plywood, gypsum board, stucco).
- Tearing of shear element.

PROPER DESIGN/CONSTRUCTION

OVERTURNING FAILURE



- Missing/inadequate holdowns.
- Insufficient stabilizing weight.



Building Analysts is a full-service architectural and engineering firm with over 12 years experience in construction litigation. Our services include: architectural and structural investigations, repair recommendations, preparation of exhibits and expert testimony. We hope this newsletter is helpful. Please contact Stan Livingston, Pete diGirolamo, Mike Romanowski or Bob Carroll at Building Analysts if you need our input or recommendation. (619) 234-8153

Building Analysts' newsletter is intended to provide general information for those involved in construction litigation. The topics contained in this publication are abbreviated and applicability to a particular situation may vary according to circumstances. Since design and construction technologies change over time, the information contained herein may become outdated. Building Analysts recommends you contact the appropriate design professional for specific information regarding individual projects.

SPRING 1994 NEXT ISSUE: RETAINING WALLS