



ANSI A250.11-2001

American National Standard

ANSI A250.11-2001
Revision of SDI-105

**Recommended Erection Instructions
for Steel Frames**

SPONSOR
Steel Door Institute
Approved March 30, 2001

ANSI®
A250.11-2001
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for Steel Frames**

Secretaries:
Steel Door Institute

Approved March 30, 2001
American National Standards Institute, Inc.

American National Standard

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Foreword (This Foreword is not part of American National Standard A250.11-2001)

The material contained in this document has been developed under the auspices of the Technical Committee of the Steel Door Institute. Suggestions for improvement gained in the use of this standard will be welcome. They should be sent to the Steel Door Institute, 30200 Detroit Road, Cleveland, OH 44145-1987.

The organizations that have approved this standard are part of the ANSI A250 Accredited Standards Committee, formed February 8, 1991, and are as follows:

American Institute of Architects
Architectural Woodwork Institute
Builders Hardware Manufacturers Association
Door and Hardware Institute
Factory Mutual Research Corporation
General Services Administration
International Conference of Building Officials
Intertek Testing Services
Insulated Steel Door Institute
Manufactured Housing Institute
Hollow Metal Manufacturers' Association/Division of NAAMM
National Association of Home Builders
Steel Door Institute
Underwriters Laboratories Inc.
Wood Door Manufacturers' Association

The Technical Committee of the Steel Door Institute, which has developed this Standard, had the following personnel at the time of approval:

Claus D. Heide, Chairman
Tom R. Janick, Vice Chairman
J. Jeffrey Wherry, Manager

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Steel Door Institute	J. Jeffrey Wherry

AMERICAN NATIONAL STANDARD ANSI A250.11-2001

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**Recommended Erection Instructions
for Steel Frames**

1 Scope and references

1.1 Scope
Recommended methods for the installation of steel frames for swinging doors in a variety of wall conditions, commonly used in commercial buildings, are covered within this standard. The installation of transoms/side lite (or panel) type frames and single or multiple borrowed lites are not covered in this standard.

It is not the intention of this document to obstruct the development of alternative installation methods, nor is it intended to restrict frame installation solely to the wall types noted herein.

1.2 Reference documents
Further information concerning wall construction, erection, anchoring, fire ratings, etc. may be found in the following:
- SDI 111, Recommended Standard Details for Steel Doors and Frames
- SDI 122, Installation and Troubleshooting Guide for Standard Steel Doors and Frames
- ANSI/DH 11.5, G-1984, Installation Guide for Doors & Hardware (Door and Hardware Institute, 14150 Newbrook Dr., Chantilly, VA 22021-2222)
- NFPA 80, Standard for Fire Doors and Fire Windows, 1999 Edition (National Fire Protection Association, P.O. Box 9101, Quincy, MA 02269-9101)
- IHMA 840-99, Guide Specifications for Installation and Storage of Hollow Metal Doors and Frames (NAAMM, 8 South Michigan Ave., Chicago, IL 60603)
- OASD-97, Fire Resistance Design Manual (Dysam Association, 8 First Street NE #510, Washington, DC 20002)

2 Storage and installation

2.1 Storage of frames at the job site
All frames shall be stored under cover. Assembled frames shall be stored vertically. The units shall be placed on at least 4" (102 mm) high wood skids or in a manner that will prevent rust or damage. The use of non-vented plastic or canvas shelters that can create a humidly chamber shall be avoided.

Note: Refer to project specifications for required cleaning and touch-up work.

2.2 Grouping of frames
When temperature conditions necessitate the use of anti-rusting agents in plaster or mortar, the inside of the frame shall be coated with a corrosion resistant coating by the contractor responsible for installation.

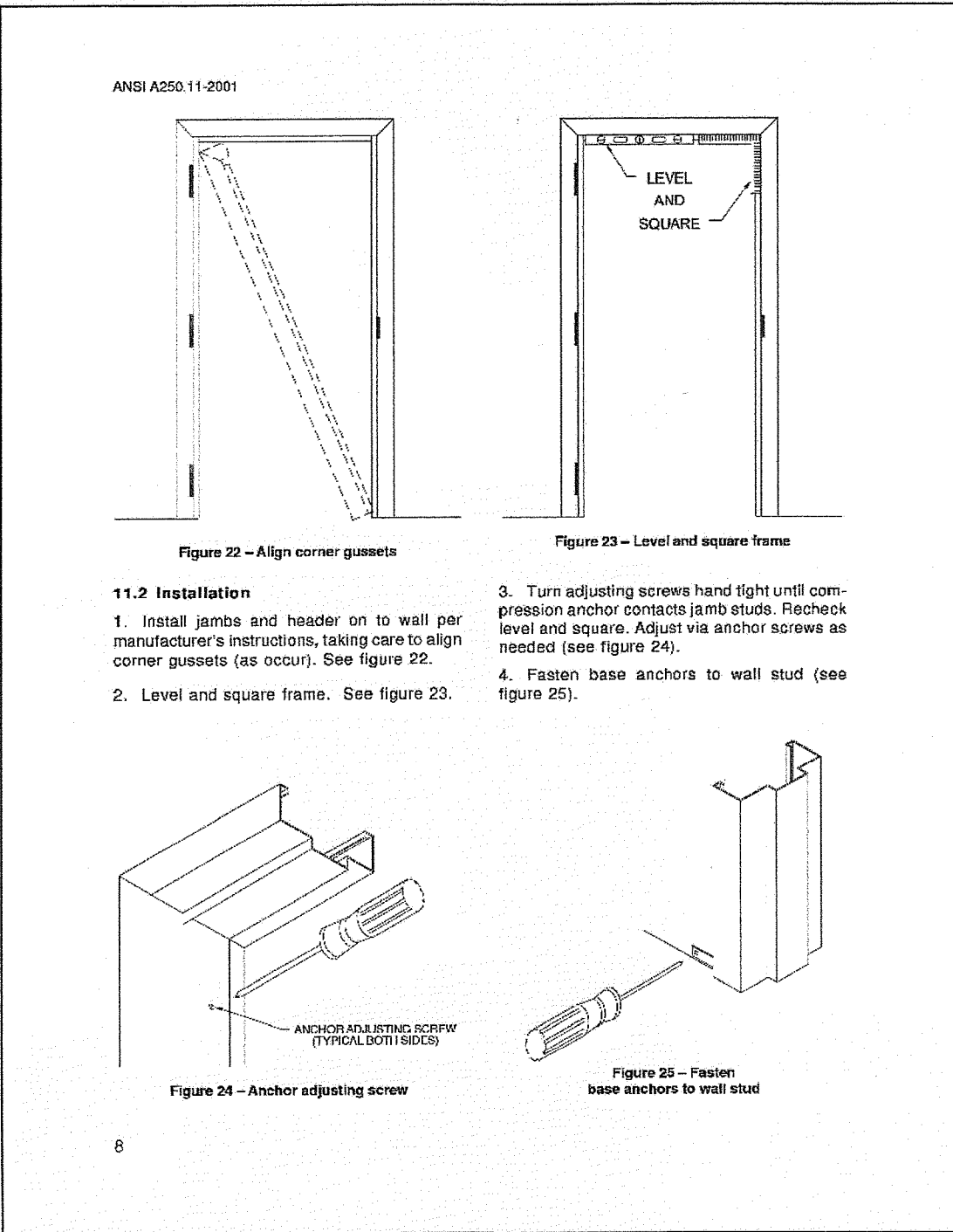
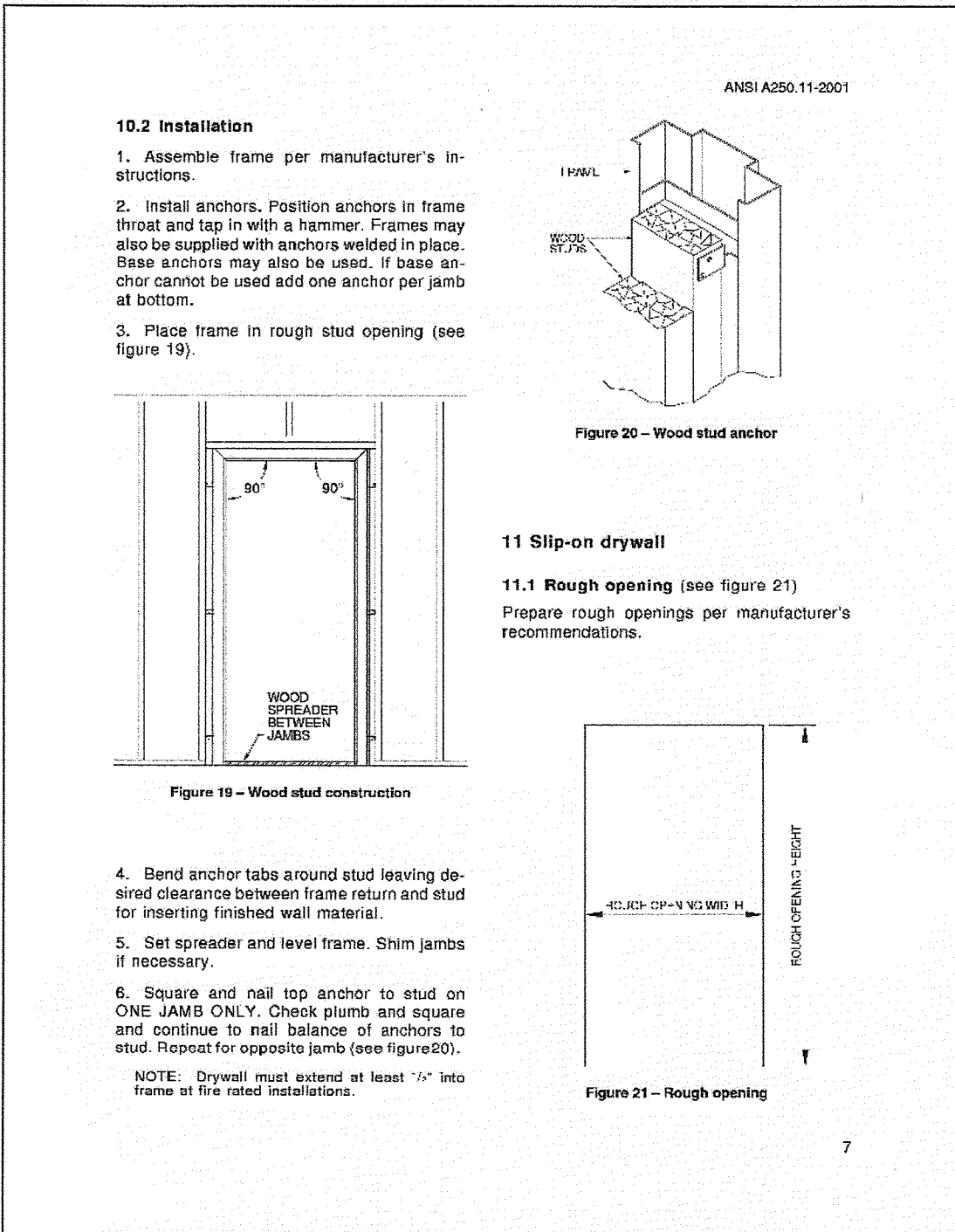
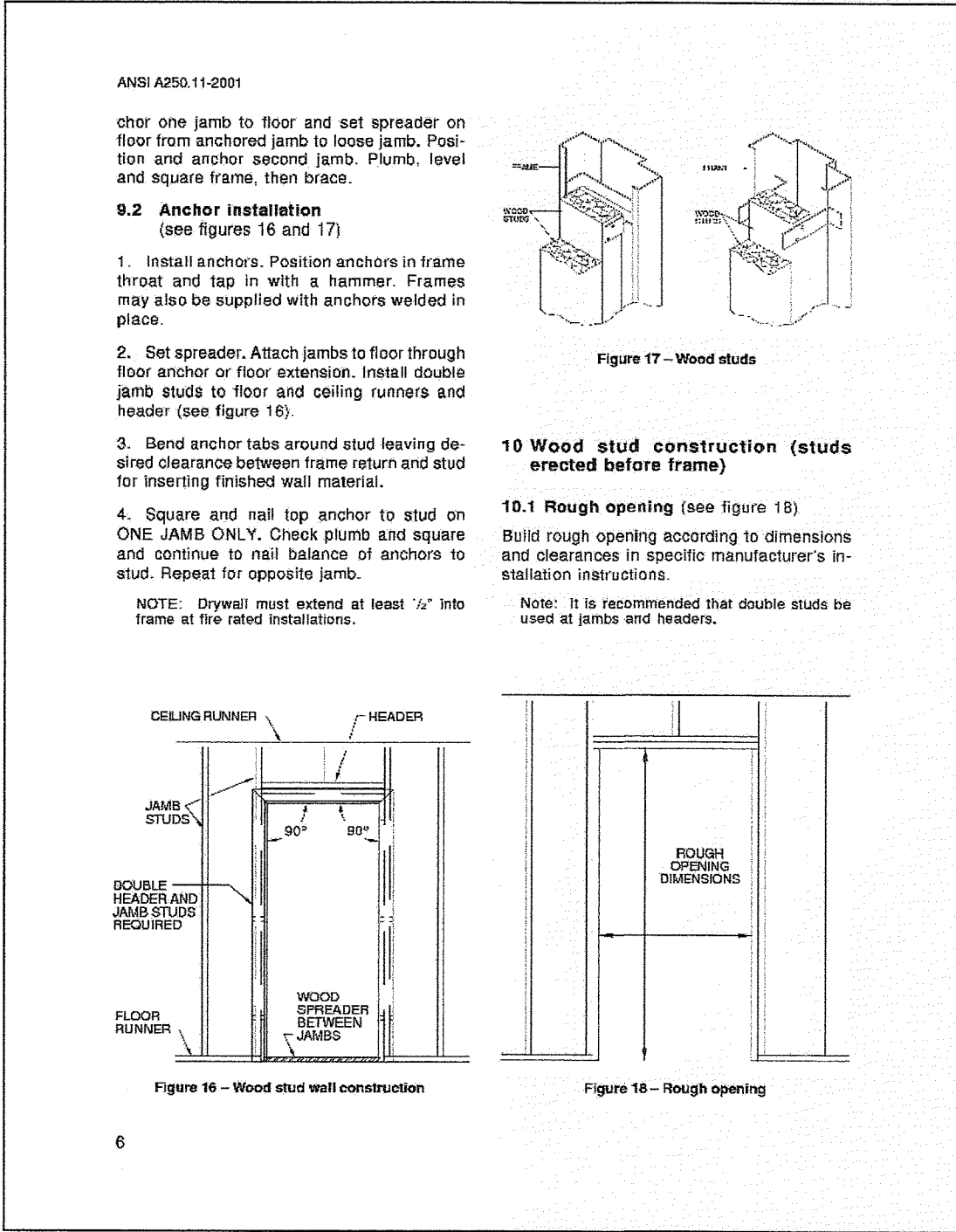
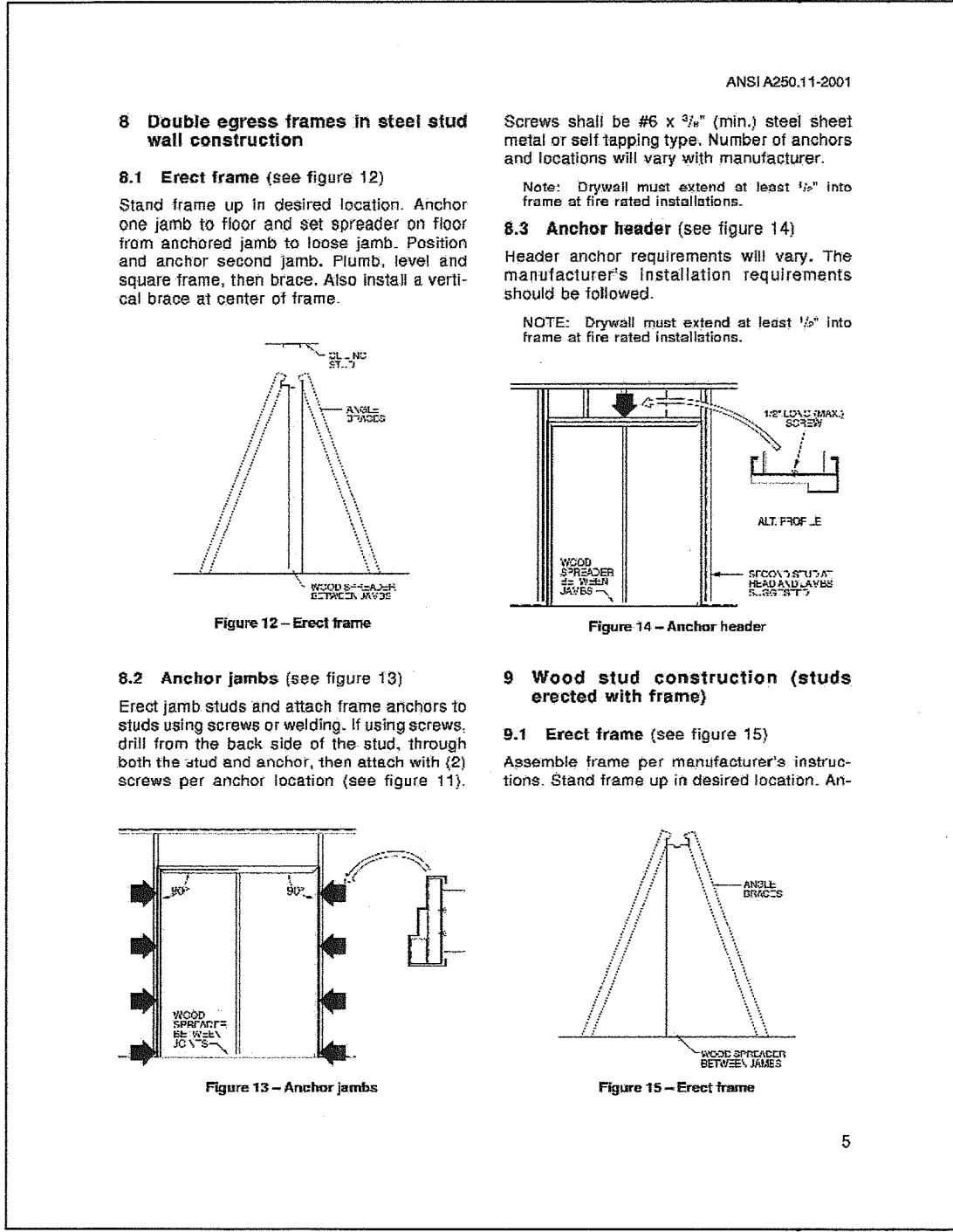
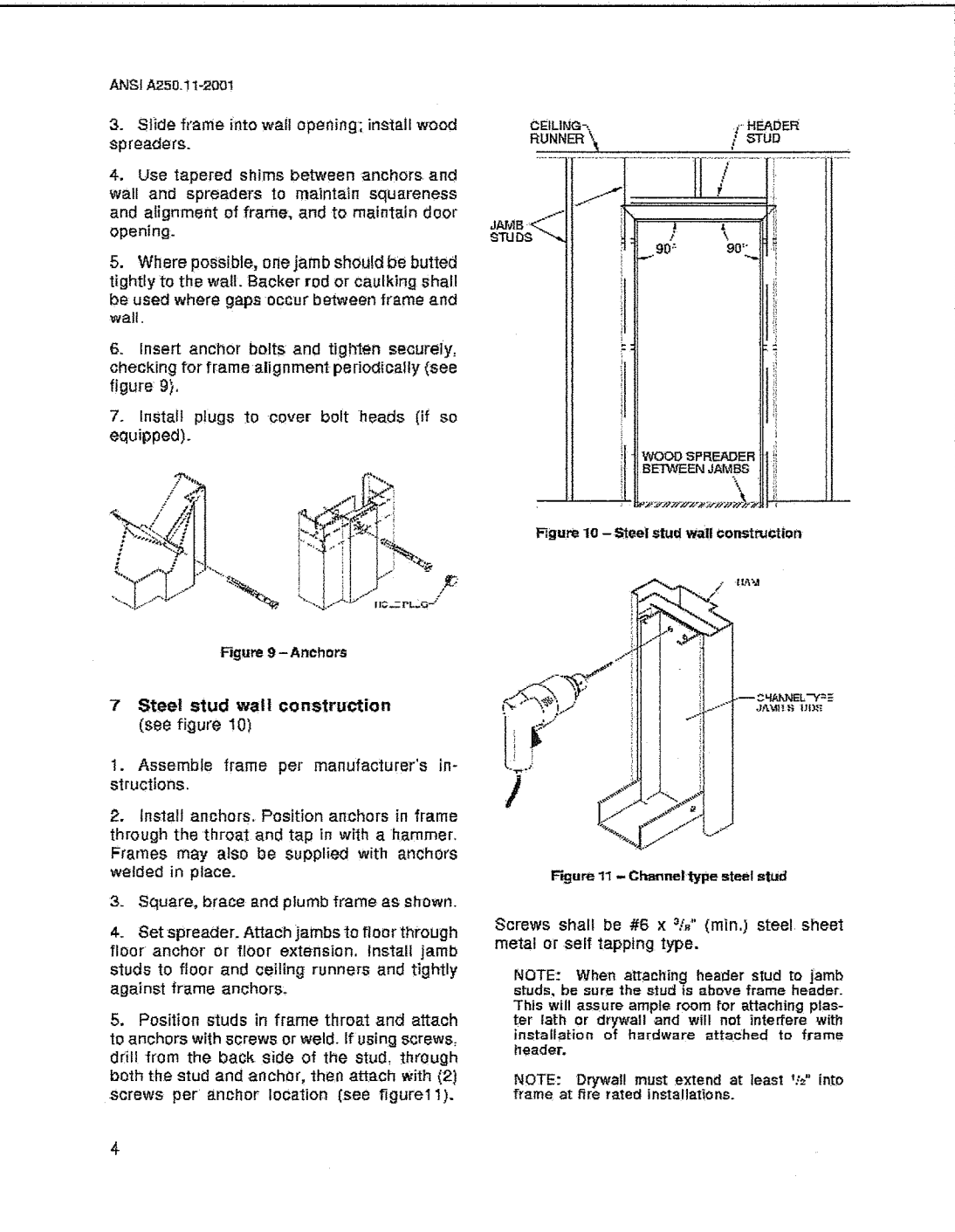
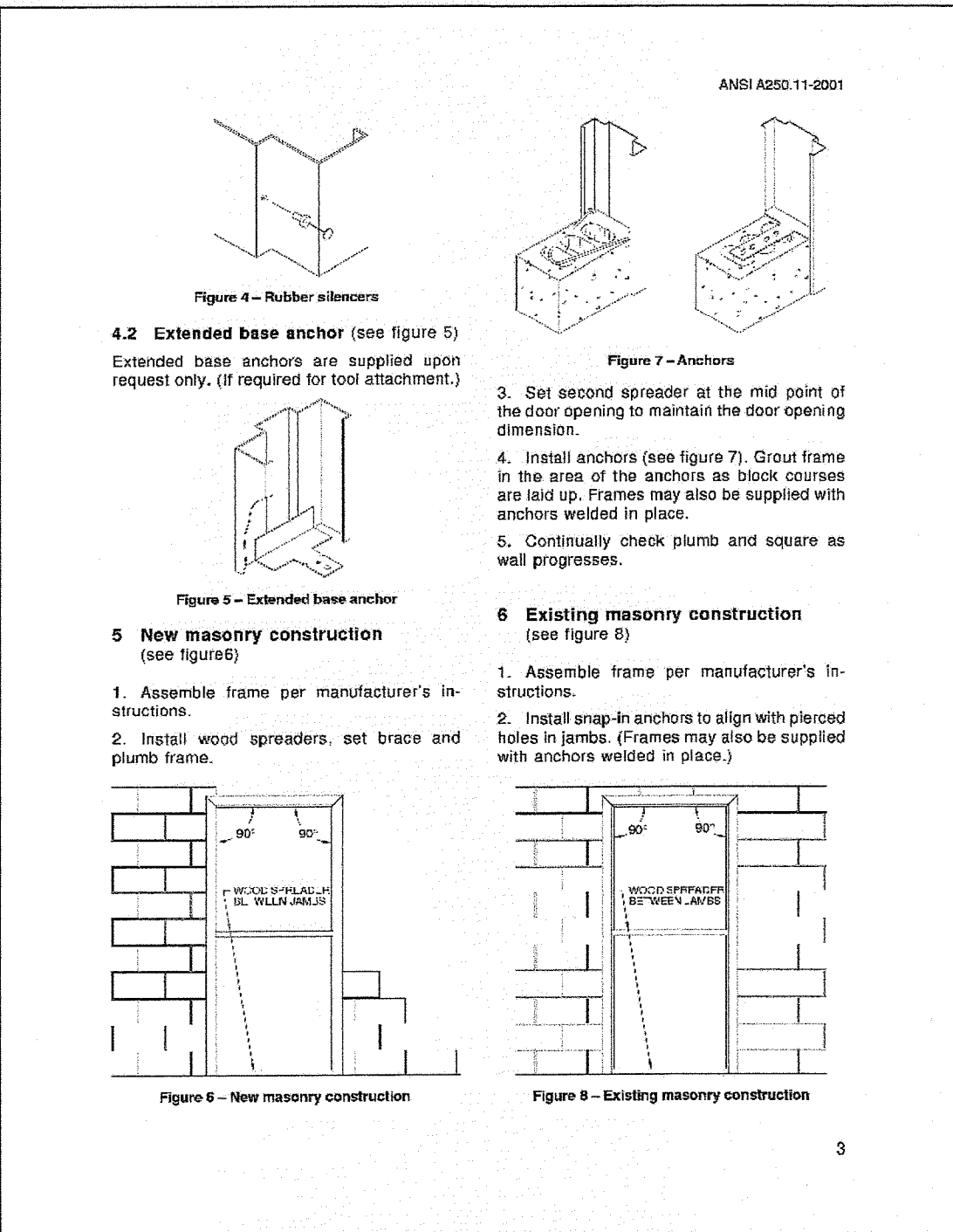
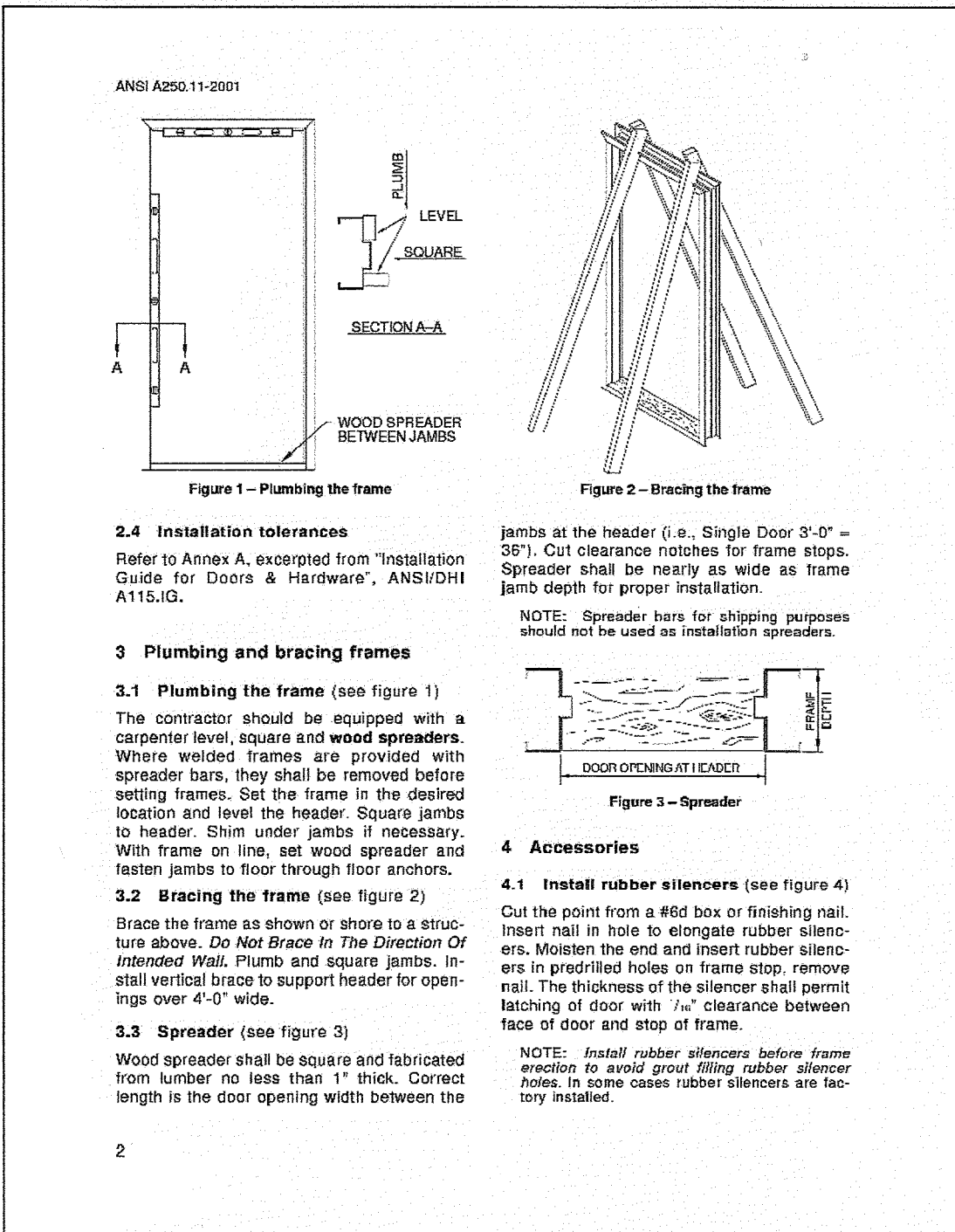
Where grouping is required in masonry installations, frames shall be braced or fastened in such a way that will prevent the pressure of the grout from deforming the frame members. Grout shall be mixed to provide a 4" (102 mm) maximum slump consistency, and be hand troweled into place. Grout mixed to a thinner "pumpable" consistency shall not be used.

Note: Standard mortar protection in frames is not intended for this consistency grout.

Note: Steel frames, including the rated frames, do not require grouting. Grouting is not recommended for frames installed in drywall.

2.3 Assembly of frame/anchor provisions
Follow manufacturer's recommended procedure for assembly of frame and quantity and spacing of anchors. If not indicated, install anchors at hinge levels and directly opposite at strike jamba.

Note: Prior to installation, jobsite personnel shall ensure correct swing, size and labeling.



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