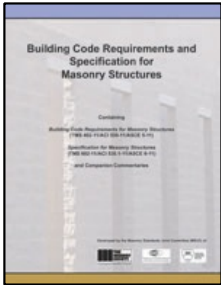




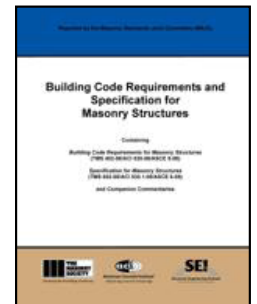
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April 30, 2017

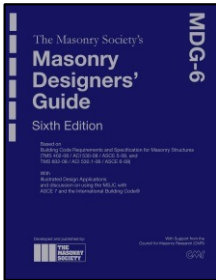
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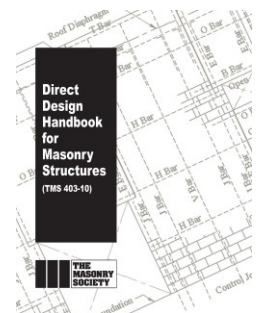


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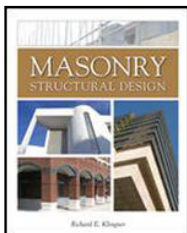


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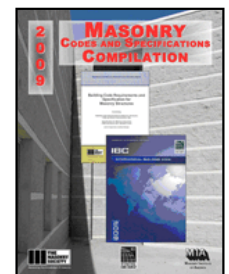
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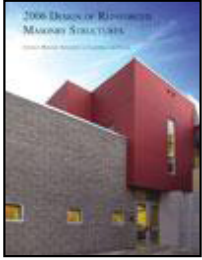
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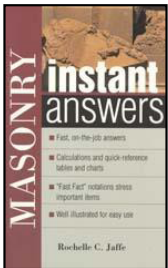
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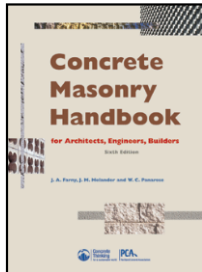
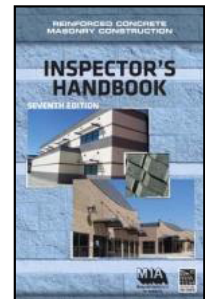


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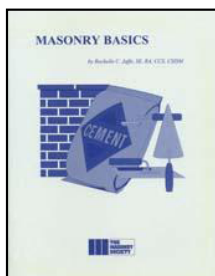
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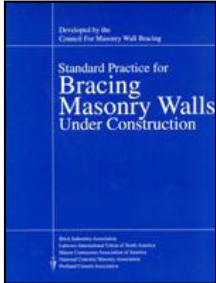
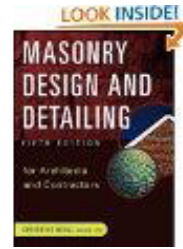
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- Masonry Materials
- Special Inspection for Masonry
- Strength Design for Masonry
- Seismic Design

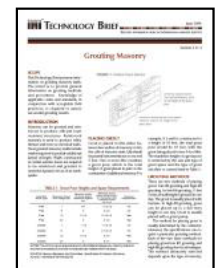
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Grouting Masonry Technology Brief 2.11.3 by International Masonry Institute International Masonry Institute, June 2004



Hybrid Masonry Design Technology Brief 2.13.01 by International Masonry Institute/National Concrete Masonry Association International Masonry Institute, December 2009



Hybrid Masonry Construction Technology Brief 2.13.02 by International Masonry Institute/National Concrete Masonry Association International Masonry Institute, February 2010





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by International Masonry Institute
The Construction Specifier, June 2007



Load-bearing Masonry's Market Share
by International Masonry Institute
Story Pole, Jan/Feb 2009



Masonry & Steel
by International Masonry Institute
The Construction Specifier, August 2008



Structural Masonry Done Right
by International Masonry Institute
The Construction Specifier, May, 2009

ADDITIONAL IMI REFERENCES

CONTRACTOR TOOLS

MORTAR AGGREGATE RATIO TEST

Quality control testing of field-mixed mortar can be contentious, particularly if compressive strength testing is specified. The Mortar/Aggregate Ratio Test is a better test.

Author: International Masonry Institute
Editor: Pat Conway
Illustration: Pat Conway
Pages: 10
Price: \$10.00
Ordering Information: 800.451.9333
Website: www.imiweb.org

Keywords: Mortar, Aggregate, Ratio, Test, Quality Control, Compressive Strength, Field-mixed Mortar, Masonry Construction, Building Materials, Construction Standards, Masonry Institute, International Masonry Institute, IMI, Pat Conway, Illustration, Pat Conway, 10 pages, \$10.00, 800.451.9333, www.imiweb.org

CONTRACTOR TOOLS

GROUT TESTING

Grout is not concrete. It has its own standards for testing.

Author: International Masonry Institute
Editor: Pat Conway
Illustration: Pat Conway
Pages: 10
Price: \$10.00
Ordering Information: 800.451.9333
Website: www.imiweb.org

Keywords: Grout, Testing, Standards, Masonry Construction, Building Materials, Construction Standards, Masonry Institute, International Masonry Institute, IMI, Pat Conway, Illustration, Pat Conway, 10 pages, \$10.00, 800.451.9333, www.imiweb.org

CONTRACTOR TOOLS

SPLICING OPTIONS FOR MASONRY REINFORCEMENT

There are several ways to achieve the required strength in a wall. Designer and contractor should work together to get the most buildable option.

Author: International Masonry Institute
Editor: Pat Conway
Illustration: Pat Conway
Pages: 10
Price: \$10.00
Ordering Information: 800.451.9333
Website: www.imiweb.org

Keywords: Splicing, Options, Masonry Reinforcement, Strength, Designer, Contractor, Buildability, Masonry Construction, Building Materials, Construction Standards, Masonry Institute, International Masonry Institute, IMI, Pat Conway, Illustration, Pat Conway, 10 pages, \$10.00, 800.451.9333, www.imiweb.org

CONTRACTOR TOOLS

GROUT POUR & LIFT LIMITS

Following these tips on grouting and reinforcement to enhance the structural capabilities of masonry allows for taller, thinner walls, even in high wind and seismic areas. Achieving these structural goals takes careful detailing and proper construction practices in the field, but it also makes reinforced masonry more affordable than ever.

Author: International Masonry Institute
Editor: Pat Conway
Illustration: Pat Conway
Pages: 10
Price: \$10.00
Ordering Information: 800.451.9333
Website: www.imiweb.org

Keywords: Grout, Pour, Lift Limits, Reinforcement, Structural Capabilities, Masonry Construction, Building Materials, Construction Standards, Masonry Institute, International Masonry Institute, IMI, Pat Conway, Illustration, Pat Conway, 10 pages, \$10.00, 800.451.9333, www.imiweb.org

CONTRACTOR TOOLS

WALL WASH LIGHTING ON BRICK, BLOCK & TILE

When you look at yourself in the mirror, the right light can make a big difference.

Author: International Masonry Institute
Editor: Pat Conway
Illustration: Pat Conway
Pages: 10
Price: \$10.00
Ordering Information: 800.451.9333
Website: www.imiweb.org

Keywords: Wall Wash Lighting, Brick, Block, Tile, Masonry Construction, Building Materials, Construction Standards, Masonry Institute, International Masonry Institute, IMI, Pat Conway, Illustration, Pat Conway, 10 pages, \$10.00, 800.451.9333, www.imiweb.org

CONTRACTOR TOOLS

PROPER MORTAR JOINT TOOLING

Tooling masonry mortar joints has both aesthetic and functional purposes. Most importantly, it is your first line of defense against water penetration.

Author: International Masonry Institute
Editor: Pat Conway
Illustration: Pat Conway
Pages: 10
Price: \$10.00
Ordering Information: 800.451.9333
Website: www.imiweb.org

Keywords: Mortar Joint Tooling, Masonry Construction, Building Materials, Construction Standards, Masonry Institute, International Masonry Institute, IMI, Pat Conway, Illustration, Pat Conway, 10 pages, \$10.00, 800.451.9333, www.imiweb.org

CONTRACTOR TOOLS

CLARIFICATION ON WET CUTTING

The proper approach to cutting masonry units, in terms of both material and worker safety, is to use wet cutting techniques.

Author: International Masonry Institute
Editor: Pat Conway
Illustration: Pat Conway
Pages: 10
Price: \$10.00
Ordering Information: 800.451.9333
Website: www.imiweb.org

Keywords: Wet Cutting, Masonry Construction, Building Materials, Construction Standards, Masonry Institute, International Masonry Institute, IMI, Pat Conway, Illustration, Pat Conway, 10 pages, \$10.00, 800.451.9333, www.imiweb.org

CONTRACTOR TOOLS

ASTM CHIPPAGE LIMITS FOR BRICK

The proper approach to cutting masonry units, in terms of both material and worker safety, is to use wet cutting techniques.

Author: International Masonry Institute
Editor: Pat Conway
Illustration: Pat Conway
Pages: 10
Price: \$10.00
Ordering Information: 800.451.9333
Website: www.imiweb.org

Keywords: ASTM Chippage Limits, Brick, Masonry Construction, Building Materials, Construction Standards, Masonry Institute, International Masonry Institute, IMI, Pat Conway, Illustration, Pat Conway, 10 pages, \$10.00, 800.451.9333, www.imiweb.org

DESIGN TOOLS & SOFTWARE

The International Masonry Institute (IMI) has a team of masonry design experts to help you evaluate the attributes of each of these resources in this section. For free guidance, call 800.464.0988.

Masonry Component Design

Structural Masonry Design System, Version 7.1*

by NCMA, 2017

IES Quick Masonry - Version 5.0*

by IES, 2017

TEDDS - Version 19.0 *

by Trimble, 2017



General Finite Element Analysis with Masonry Design Features

RAM Elements - Version 14.0.*

by Bentley, 2017

RISA Floor – Version 12.0.0*

RISA 3D - Version 16.0.0*

by RISA Technologies, 2017



*- recommended by IMI, call for free software support and training

MASONRY & INDUSTRY WEBSITES

Some websites include structural masonry design guidelines; i.e., NCMA has many Technical Notes on structural CMU design.

International Masonry Institute (IMI)

Brick Institute of America (BIA)

National Concrete Masonry Association (NCMA)

Portland Cement Association (PCA)

The Masonry Society (TMS)

imiweb.org

gobrick.com

ncma.org

cement.org

masonrysociety.org

¹ - This is a partial list of commonly referenced masonry resources. In general, these are valuable resources for building designers. However, IMI does not claim to have thoroughly evaluated each of these resources, nor implies endorsement by listing them in this bibliography. Technical information contained in these resources is intended for the use of industry professionals we are competent to evaluate the significance and limitations of the information. IMI disclaims any and all legal responsibility for the consequences of applying the information.