Maximizing the Benefits of Masonry!

Welcome to the 2021 Masonry Resource Guide. Inside you will find up-to-date contact listings for the great union mason contractors and masonry suppliers who support the Masonry Institute of St. Louis (MISL), our 2020-2021 schedule of educational programs, and additional information geared toward helping you maximize the benefits of masonry on your next project!

Below are just a few of the masonry benefits that can be maximized when designing and constructing enclosed building environments.

Maximizing Design
• Building occupants relate naturally to masonry units and construction
• Masonry materials offer a wide range of unit types, sizes, colors, textures
• Masonry modularity allows for highly flexible design approaches
• Masonry materials have a proven record of durability and sustainability
• Acoustic absorption and reflection of masonry reduces sound transmission
• Masonry wall assemblies continue to exceed energy code requirements
• Loadbearing capabilities eliminate additional frames reducing initial cost
• Low initial and maintenance costs ensure decreased project life-cycle cost

Maximizing Safety
• Masonry does not burn or give off gases in the presence of fire
• Masonry materials do not rot or mold in the presence of moisture
• Structural masonry excels in vertical load carrying without additional frames
• Structural masonry systems easily resist code level wind and seismic events
• Structural masonry offers an economical upgrade for ICC 500 storm shelters
• Masonry resilience can be counted on following high wind and seismic events

Maximizing Constructability
• Masonry materials and labor are locally sourced which stimulates local economies
• Trained union contractors and craftworkers ensure quality construction
• Continuous workforce development including strong apprenticeship programs
• Masonry can meet or exceed tight site, budget, and schedule requirements
• All the mason needs to start is the footing! No extensive reviews or fabrication
• No need to shut down other trades while masonry is being constructed

Be sure to attend our upcoming educational seminars and webinars to learn more and we hope you enjoy the rest of the 2021 Masonry Resource Guide.

For more information visit www.masonrystl.org/msc
<table>
<thead>
<tr>
<th>Company Name</th>
<th>Address</th>
<th>City</th>
<th>State</th>
<th>Phone Number</th>
<th>Contact Person</th>
<th>Email</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>A &amp; K Rentals, LLC</td>
<td>11325 Eiff Rd.</td>
<td>Marissa</td>
<td>IL</td>
<td>618-295-7030</td>
<td>Sara Wright</td>
<td></td>
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<tr>
<td>AAA Masonry, Inc.</td>
<td>PO Box 571</td>
<td>Jefferson City</td>
<td>MO</td>
<td>573-690-2411</td>
<td>Nicole Dudenhoffer</td>
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<tr>
<td>ABC Masonry</td>
<td>PO Box 110</td>
<td>Cedar Hill</td>
<td>MO</td>
<td>636-274-9091</td>
<td>Richard Abelin, Jr.</td>
<td><a href="mailto:abcmaosnry@att.net">abcmaosnry@att.net</a></td>
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<tr>
<td>Allied Waterproofing, Inc.</td>
<td>5840 Mango Dr.</td>
<td>St. Louis</td>
<td>MO</td>
<td>636-671-7722</td>
<td>Dottie Koch</td>
<td><a href="mailto:alliedwater@aol.com">alliedwater@aol.com</a></td>
<td></td>
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<tr>
<td>Arnold Masonry, LLC</td>
<td>11510 State Rte. M</td>
<td>Ste. Genevieve</td>
<td>MO</td>
<td>573-883-5815</td>
<td>Betty Arnold</td>
<td><a href="mailto:barnold@brick.net">barnold@brick.net</a></td>
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<tr>
<td>Atek/Humes Masonry</td>
<td>222 Lemay Ferry Rd.</td>
<td>St. Louis</td>
<td>MO</td>
<td>314-599-1829</td>
<td>Jacob Thompson</td>
<td><a href="mailto:atek@live.com">atek@live.com</a></td>
<td>atekmasonry.com</td>
</tr>
<tr>
<td>B &amp; K Tuckpointing Co.</td>
<td>PO Box 300137</td>
<td>St. Louis</td>
<td>MO</td>
<td>314-721-0033</td>
<td>Scott Masterson</td>
<td><a href="mailto:scott@bandktuckpointing.com">scott@bandktuckpointing.com</a></td>
<td>bandktuckpointing.com</td>
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<tr>
<td>Joseph F. Becker, Inc.</td>
<td>PO Box 385</td>
<td>Breese</td>
<td>IL</td>
<td>618-526-7868</td>
<td>Jeff Becker</td>
<td><a href="mailto:beckerbrick@sbcglobal.net">beckerbrick@sbcglobal.net</a></td>
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<tr>
<td>Burt Masonry, Inc.</td>
<td>1730 Topping Rd.</td>
<td>St. Louis</td>
<td>MO</td>
<td>314-822-8880</td>
<td>Ron Burt</td>
<td><a href="mailto:burtmasonry@charter.net">burtmasonry@charter.net</a></td>
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<tr>
<td>Caswell Brickwork, Inc.</td>
<td>97 Wildlife Ln.</td>
<td>Defiance</td>
<td>MO</td>
<td>636-398-5625</td>
<td>Michael Caswell</td>
<td><a href="mailto:caswellbrickwork@yahoo.com">caswellbrickwork@yahoo.com</a></td>
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<tr>
<td>Christy Industrial Services Co.</td>
<td>4641 McRee Ave.</td>
<td>St. Louis</td>
<td>MO</td>
<td>314-773-7500</td>
<td>Doug Lane</td>
<td><a href="mailto:frank.obrien@christyco.com">frank.obrien@christyco.com</a></td>
<td>christyco.com</td>
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<tr>
<td>Jack H. Clark Brick Contractor, Inc.</td>
<td>1996 Springtree Dr.</td>
<td>Maryland Heights</td>
<td>MO</td>
<td>314-878-9023</td>
<td>William Clark</td>
<td><a href="mailto:djcbaaddd@aol.com">djcbaaddd@aol.com</a></td>
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<tr>
<td>Ken Clark Masonry &amp; Son Restoration &amp; Waterproofing, LLC</td>
<td>5208 Daggett Ave.</td>
<td>St. Louis</td>
<td>MO</td>
<td>314-772-1952</td>
<td>Austin Clark</td>
<td><a href="mailto:austin@kenclarkmasonryandson.com">austin@kenclarkmasonryandson.com</a></td>
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<tr>
<td>Contractor Name</td>
<td>Address</td>
<td>City, State, Zip</td>
<td>Phone Number</td>
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<tr>
<td>Cornerstone Masonry</td>
<td>PO Box 1163</td>
<td>St. Peters, MO, 63376</td>
<td>314-265-5447</td>
<td><a href="mailto:info@cornerstone-masonry.net">info@cornerstone-masonry.net</a></td>
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<td><a href="http://www.cornerstone-masonry.net">www.cornerstone-masonry.net</a></td>
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<td>Dempsey Masonry, LLC</td>
<td>4454 Hencken Rd.</td>
<td>Wildwood, MO, 63069</td>
<td>636-938-5327</td>
<td><a href="mailto:patdempsey63@aol.com">patdempsey63@aol.com</a></td>
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<td>Denton’s Tuckpointing &amp; Caulking Co.,</td>
<td>6433 Weber Rd.</td>
<td>St. Louis, MO, 63123</td>
<td>314-842-5855</td>
<td><a href="mailto:kasate@sbcglobal.net">kasate@sbcglobal.net</a></td>
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<td>DG Skouse Company</td>
<td>PO Box 254</td>
<td>Peculiar, MO, 64078</td>
<td>816-779-7427</td>
<td><a href="mailto:donna@dgskouse.com">donna@dgskouse.com</a></td>
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<td>Diecker-Terry Masonry, Inc.</td>
<td>11327 Elf Rd.</td>
<td>Marissa, IL, 62257</td>
<td>618-444-0850</td>
<td><a href="mailto:kyledemsar@dieckerterry.com">kyledemsar@dieckerterry.com</a></td>
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<td>Double D Masonry, LLC</td>
<td>2320 Lilac Rd.</td>
<td>Marissa, IL, 62257</td>
<td>618-444-2485</td>
<td><a href="mailto:scott@doubledmasonry.com">scott@doubledmasonry.com</a></td>
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<td>Eddings Masonry, Inc.</td>
<td>9255 Primrose Ln.</td>
<td>Bonne Terre, MO, 63628</td>
<td>573-358-2677</td>
<td><a href="mailto:eddingsmasonry@sbcglobal.net">eddingsmasonry@sbcglobal.net</a></td>
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<td>FD Masonry</td>
<td>1155 Kinslar Dr.</td>
<td>St. Louis, MO, 63129</td>
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<td>Kenneth E. Foeste Masonry, Inc.</td>
<td>347 County Rd 649</td>
<td>Cape Girardeau, MO, 63701</td>
<td>573-334-0172</td>
<td><a href="mailto:judy@foestemasonry.com">judy@foestemasonry.com</a></td>
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<td>Frisch Masonry, Inc.</td>
<td>567 Leffingwell Ave.</td>
<td>Kirkwood, MO, 63122</td>
<td>314-965-1424</td>
<td><a href="mailto:rixbrix51@gmail.com">rixbrix51@gmail.com</a></td>
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<td>Gateway Waterproofing &amp; Restoration</td>
<td>8424 Reilly Ave.</td>
<td>St. Louis, MO, 63111</td>
<td>314-352-9500</td>
<td><a href="mailto:mark@gatewaywaterproofing.com">mark@gatewaywaterproofing.com</a></td>
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<td>Germann Brick Contractor, Inc.</td>
<td>401 Travertine Circle</td>
<td>Millstadt, IL, 62260</td>
<td>618-476-7835</td>
<td><a href="mailto:chrisfrench@gmail.com">chrisfrench@gmail.com</a></td>
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<td><a href="mailto:germannbrick@gmail.com">germannbrick@gmail.com</a></td>
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<td>Gillespie &amp; Powers, Inc.</td>
<td>9550 True Dr.</td>
<td>St. Louis, MO, 63132</td>
<td>314-423-9460</td>
<td>gillespiepowers.com</td>
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<td>Gillick Brickwork, Inc.</td>
<td>1818 Avenue H</td>
<td>St. Louis, MO, 63125</td>
<td>314-544-2222</td>
<td><a href="mailto:gillickbrickwork@hotmail.com">gillickbrickwork@hotmail.com</a></td>
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</tbody>
</table>
All contractors are signatory to the Bricklayers’ Union Local No. 1 of Missouri.

**Certified Mason Contractors Association Member**

**Mason Contractors Association Member**

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MC Masonry & Restoration, LLC
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Wright City MO 63390
314-503-1960
Chad Angle
rtangle@live.com
<table>
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<tr>
<th>Mason Contractor Directory</th>
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<tr>
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<tr>
<th>Contractor Name</th>
<th>Address</th>
<th>Phone Number</th>
<th>Contact Person</th>
<th>Email Address</th>
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<tbody>
<tr>
<td>George McDonnell &amp; Sons</td>
<td>2917 N Lindbergh Blvd., St. Ann MO 63074</td>
<td>314-739-0468</td>
<td>Thomas L. McDonnell</td>
<td><a href="mailto:tmcdcaulk@sbcglobal.net">tmcdcaulk@sbcglobal.net</a></td>
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<tr>
<td>McDonnell Building Sealants, LLC</td>
<td>10 Saint Ann Ct., Old Monroe MO 63369</td>
<td>636-665-5454</td>
<td>Kelley McDonnell</td>
<td><a href="mailto:kelley.mcdonnel143@gmail.com">kelley.mcdonnel143@gmail.com</a></td>
</tr>
<tr>
<td>Modern Masonry &amp; Construction, Inc.</td>
<td>1051 Frisco Hollows Rd., Imperial MO 63052</td>
<td>314-581-7437</td>
<td>Hal Gillmann</td>
<td><a href="mailto:hal.gillmann@gmail.com">hal.gillmann@gmail.com</a></td>
</tr>
<tr>
<td>National Machinery &amp; Conveyor, Inc.</td>
<td>PO Box 3128, Marion IN 46953</td>
<td>765-662-1934</td>
<td></td>
<td><a href="mailto:office@nmccompanies.com">office@nmccompanies.com</a></td>
</tr>
<tr>
<td>Patke Restoration, LLC</td>
<td>7333 Hwy 100, Washington MO 63090</td>
<td>314-520-0538</td>
<td>John Patke</td>
<td><a href="mailto:john@patkerestoration.com">john@patkerestoration.com</a></td>
</tr>
<tr>
<td>Patricio Masonry Co., Inc.</td>
<td>664 Timberridge Dr., St. Charles MO 63303</td>
<td>636-949-8810</td>
<td>Vince Patricio</td>
<td><a href="mailto:vpatricio20@yahoo.com">vpatricio20@yahoo.com</a></td>
</tr>
<tr>
<td>Patriot Masonry, LLC</td>
<td>21 Fox Meadows, St. Louis MO 63127</td>
<td>314-590-3468</td>
<td>James Tegethoff</td>
<td><a href="mailto:james.tegethoff@patriot-masonry.com">james.tegethoff@patriot-masonry.com</a></td>
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<th>Contractor Name</th>
<th>Address</th>
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<tr>
<td>Propst Masonry Co.</td>
<td>18923 Staabtown Rd., Ste. Genevieve MO 63670</td>
<td>573-883-3694</td>
<td>Dale Propst</td>
<td><a href="mailto:dalef@brick.net">dalef@brick.net</a></td>
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<tr>
<td>Res-Com Contractors, Inc.</td>
<td>PO Box 23, St. Charles MO 63302</td>
<td>636-946-4233</td>
<td>William Mersman</td>
<td><a href="mailto:rescom1984@sbcglobal.net">rescom1984@sbcglobal.net</a></td>
</tr>
<tr>
<td>ROSCH Company</td>
<td>18390 Wings Corporate Dr., Chesterfield MO 63005</td>
<td>636-519-7770</td>
<td>John Andrzejewski</td>
<td><a href="mailto:jandy@roschcompany.com">jandy@roschcompany.com</a></td>
</tr>
<tr>
<td>Rupp Masonry Construction Co.</td>
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<td>217-223-3259</td>
<td>John Rupp</td>
<td><a href="mailto:tfrupp@adams.net">tfrupp@adams.net</a></td>
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<tr>
<td>S &amp; D Smith, Inc.</td>
<td>8615 State Rte. 120 E, Slaughters KY 42456</td>
<td>270-635-3583</td>
<td>David Smith</td>
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<tr>
<td>Sangiolo-Baker Masonry, LLC</td>
<td>4673 Douglas Rd., Millstadt IL 62260</td>
<td>618-779-8111</td>
<td>Greg Sangiolo</td>
<td><a href="mailto:sangiolo1lc@gmail.com">sangiolo1lc@gmail.com</a></td>
</tr>
<tr>
<td>The Schaefer Group, Inc.</td>
<td>1300 Grange Hall Rd., Dayton OH 45430</td>
<td>937-253-3342</td>
<td>Christine Olsen</td>
<td><a href="mailto:christine.olsen@theschaefergroup.com">christine.olsen@theschaefergroup.com</a></td>
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The Mason Contractor Directory provides a list of contractors who are signatory to the Bricklayers’ Union Local No. 1 of Missouri and members of the Certified Mason Contractors Association and Mason Contractors Association.
All contractors are signatory to the Bricklayers’ Union Local No. 1 of Missouri.

Certified Mason Contractors Association Member  Mason Contractors Association Member

John J. Smith Masonry Co.
9200 Green Park Rd.
St. Louis MO 63123
314-894-9500
John Smith Jr.
johnjr@smithmasonry.com
www.smithmasonry.com

James G. Staat Tuckpointing & Waterproofing
8177 Gravois Rd.
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314-743-0669
James Staat
jim@staatinc.com
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Staat Tuckpointing, Inc.
8177 Gravois Rd.
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Superior Waterproofing & Restoration Co., Inc.
3001 Washington Ave., Ste. 100
St. Louis MO 63103
314-531-6100
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www.superiorwaterproofing.com

Swanson Masonry, Inc.
133 S 5th St.
St. Charles MO 63301
636-946-1970
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www.swansonmasonry.com

Thomas Masonry
617 N Benton Ave.
St. Charles MO 63301
636-947-3020
Steve Thomas
thomasmasonrystl@gmail.com
thomasmasonrystl.com

J. T. Thorpe & Son, Inc.
1060 Hensley St.
Richmond CA 94801
510-233-2500
Brian R. Young
edd@tmcorp.us
jttThorpe.com

Toenjes Brick Contracting, Inc.
714 DD Rd.
Columbia IL 62236
618-476-9292
Dan Toenjes
dan@tbrick.com
www.tbrick.com

Trinity Masonry & Tuckpointing, LLC
727 Cedar Field Ct.
Town & Country MO 63017
314-574-0087
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trinitymandt@yahoo.com

True Masonry, LLC
585 Indian Acres Rd.
Robertsville MO 63072
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dakmckinney@yahoo.com

United Specialty Contractors
1415 Becker
Arnold MO 63010
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Cory Gallagher
duracory@hotmail.com

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Wentzville MO 63385
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vehige.bricklayinginc@gmail.com

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westernspecialtycontractors.com

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Lees Summit MO 64081
816-554-3636
Dixie Williams
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www.wmsref.com

Wolf Concrete 2, LLC
PO Box 772
Arnold MO 63010
314-304-7806
Maria Salazar
concretewolves@outlook.com

Wright Masonry, LLC
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O’Fallon MO 63368
636-578-0279
Jason Wright
jwright@wrightmasonryllc.com
wrightmasonryllc.com

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636-629-5108
Donald Zufall, Jr.
zufallinc@sbcglobal.net

Mason Contractor Directory

All contractors are signatory to the Bricklayers’ Union Local No. 1 of Missouri.

Certified Mason Contractors Association Member  Mason Contractors Association Member

HOW TO SELECT A MASON CONTRACTOR

BE SURE YOU ARE DEALING WITH UNION CRAFTSMEN
Union craftsmen learn the techniques and materials of their trade through a rigorous regimen of apprenticeship and experience. As a result, they are professionals in their field, and make customer satisfaction a priority.

CHECK OUT THE COMPANY
How long has the company been in business? Will the company representatives visit the job site to discuss the work?

OBTAIN BIDS FROM MORE THAN ONE COMPANY
Prices for any given job can vary significantly. Just remember, a bid too low which seems too good to be true usually is not true.

OBTAIN LIEN WAIVERS FROM THE CONTRACTING COMPANY
Protect yourself from claims that may be filed against the company by suppliers or subcontractors.

MASON CONTRACTORS ASSOCIATION
www.masonrystlouis.com
314-645-1966
New and Updated Masonry Design Tools!

Fast-paced construction schedules not only affect contractors and suppliers, but also reduce the time available for designers to evaluate, select, and detail wall systems for new buildings. This makes reliable design tools more valuable than ever. Fortunately for architects and engineers, there are some great masonry wall design-assist tools available right now! Let’s look at two of the latest.

For those using Autodesk Revit, a game-changing plugin called Masonry iQ, by 3DiQ, can be utilized to create Revit wall types with intelligent masonry materials that “know” their relationship to the design. This allows for single and multiple wythe walls, custom bond patterns, masonry modularity at corners and openings, and industry movement joint recommendations. Masonry wall sections are automatically generated, including concrete masonry bond beam locations which can be used for cross-discipline clash detection. The completed model allows the designer to easily share masonry related details, drawings, and photo-realistic renderings with others. If you would like to see Masonry iQ in action, go to www.3diqinc.com for a fully capable 30-day trial subscription.

On the building engineering side, the National Concrete Masonry Association (NCMA) has released a new version of their Direct Design Software, DDS V3.1, with many new and powerful structural masonry design features. DDS V3.1 is unique in that it combines the loading requirements of ASCE 7, and the material resistance provisions of TMS 402, to quickly produce code-compliant concrete masonry designs. Some of the new features include single and multiple story buildings up to 60 ft. tall, with either flexible or rigid floor and roof systems, user specified compressive strength of masonry, wide range of concrete masonry unit widths, mortar types, and reinforcement sizes. A new optimizer system allows the user to set desired reinforcement parameters and DDS V3.1 will optimize the design accordingly. The latest version also has a companion Autodesk Revit plugin which imports building models into DDS V3.1 and exports structural reinforcing schedules back out to Revit.

In addition to being fast and easy to learn, the software package is highly transparent with fully worked-out code equations, extensive load diagrams and structural summaries. Once the designer is satisfied with the result, complete structural wall elevation shop drawings can be generated, along with code related detailing requirements.

For a free 30-day trial subscription of the full version, and the Revit plugin, go to www.ncma.org.

Thanks to these two great design tools, Masonry iQ and DDS V3.1, designing with masonry just got a lot easier and smarter. Add them to your design toolbox today!

Want an extended test drive of either Masonry iQ or DDS V3.1?
Contact the Masonry Institute of St. Louis for information related to first-year subscription support.
MASONRY INSTITUTE OF ST. LOUIS

In 1971, a trust fund was established to promote the use of masonry materials. Through this trust fund, the Masonry Institute of St. Louis was created to serve as the promotional and technical arm in the Missouri counties of the Greater St. Louis Area Masonry Industry.

Seminar participants earn continuing education credits as indicated within the schedule. Annual certificates showing credits earned are mailed to participants each December. Year-to-date certificates are available upon request.

Masonry Institute of St. Louis seminars are profession-specific. However, everyone is welcome to attend all programs.

REGISTER FOR ALL SEMINARS AND WEBINARS DIRECTLY FROM EMAIL INVITATION, (314) 645-5888, OR MASONRYSTL.ORG.

ALL WEBINARS BEGIN AT 10:00 A.M. ALL OTHER SEMINARS BEGIN AT NOON. ALL PRESENTATIONS ARE ONE HOUR. LUNCH IS PROVIDED FOR SEMINARS. VEGETARIAN MEALS ARE AVAILABLE UPON PRIOR REQUEST.
Community Functional Resilience: Sustainable Protection
Wednesday, September 16, 2020
Speaker: Jason J. Thompson
National Concrete Masonry Association
Are you building with post-disaster goals? The newest performance objective in community planning and design centers is achieving quick recovery following a disaster. True resiliency is a complex series of interdependent goals, of which, choices in building materials play a key role. In this session, Jason Thompson, NCMA Vice President of Engineering, will explore concrete masonry's contributions to resilient construction and its underlying performance objectives.
Sponsor: Midwest Block & Brick
www.midwestblock.com

Beyond the Basics: Perforated Brick Screen Walls
Wednesday, November 18, 2020
Speaker: Brian E. Trimble
International Masonry Institute
Brick screen walls have been popular residential enclosures for decades. Increasingly, architects are applying brick screen walls to include whole building facades. This growing trend has created a desire for rules and guidelines for the proper design and detailing of perforated brick walls. Join Brian as he discusses incorporating perforations into wall claddings, insights on project types suited to screen walls, and case studies featuring inspiring and unique perforated brick screen walls around the world.
Sponsor: Lemay Concrete Block
www.lemayblock.com

Veneer Cavities: How Wide Can You Go?
Wednesday, January 27, 2021
Speaker: Darrell W. McMillian
Masonry Institute of St. Louis
Anchored veneer systems have a long record of durability and performance. The “cavity” is an integral part of the system providing for differential movement, moisture protection, and air/thermal resistance. As energy requirements have increased, demands on cavity width have also increased. Join Darrell as he explores factors that drive cavity width, design and construction limits to wide cavities, and overviews TMS 402 prescriptive provisions related to anchored veneer cavities.
Sponsor: Irwin Products, Inc.
www.irwinproducts.com

Energy Update: Masonry Compliance Options
Wednesday, March 24, 2021
Speaker: W. Mark McGinley
University of Louisville
This presentation discusses current prescriptive energy compliance methods as they relate to exterior masonry wall systems. The alternate to the prescriptive methods, whole building analysis, which typically produces more cost-effective masonry energy designs, will also be discussed. The presentation will also review available energy design aids, recent energy studies for buildings that commonly use exterior masonry walls, and recent proactive energy ordinances such as the one enacted by St. Louis City.
Sponsor: CAD BLOX, LLC
www.cadblox.com

Beyond the Basics: Cements for Mortar and Grout
Wednesday, May 26, 2021
Speaker: Jamie Farny
Portland Cement Association
Cement is one of the key ingredients for masonry mortar and grout. With so many cementitious products available, join Jamie Farny of PCA as he discusses cements that are currently allowed by ASTM C270 for mortar and C476 for grout. The discussion will include descriptions of each type of cement, key properties of quality mortar and grout, and how to specify cements for mortar and grout efficiently and effectively.
Sponsor: John J. Smith Masonry Co.
www.smithmasonry.com

All attendees receive one MISL Professional Development Hour (PDH) for each of the architectural seminars listed above. The Masonry Institute of St. Louis is a registered provider of AIA-approved continuing education under Provider Number G137. All architectural seminars listed above have been submitted for AIA Continuing Education Services LU|HSW approval.
All attendees receive one MISL Professional Development Hour (PDH) for each of the engineering seminars listed above.
Community Functional Resilience:
Sustainable Protection

Wednesday, September 16, 2020
Speaker: Jason J. Thompson
National Concrete Masonry Association

Are you building with post-disaster goals? The newest performance objective in community planning and design centers is achieving quick recovery following a disaster. True resiliency is a complex series of interdependent goals, of which, choices in building materials play a key role. In this session, Jason Thompson, NCMA Vice President of Engineering, will explore concrete masonry's contributions to resilient construction and its underlying performance objectives.

Co-Sponsor: Midwest Block & Brick
www.midwestblock.com

Extreme Temperature Masonry:
Out in the Cold!

Wednesday, November 4, 2020
Speaker: Darrell W. McMillian
Masonry Institute of St. Louis

The masonry industry has done a good job defining temperature ranges and related procedures and protections necessary to allow masonry construction to continue during periods of extreme cold weather. This information has been codified within TMS 602, Specification for Masonry Structures, in Article 1.8 C. Join Darrell for an overview of these provisions and common scenarios highlighting their implementation.

Co-Sponsor: Illinois Products Corporation
www.illinois-products.com

Extreme Temperature Masonry:
Some like it Hot!

Wednesday, March 10, 2021
Speaker: Darrell W. McMillian
Masonry Institute of St. Louis

The masonry industry has done a good job defining temperature ranges and related procedures and protections necessary to allow masonry construction to continue during periods of extreme hot weather. This information has been codified within TMS 602, Specification for Masonry Structures, in Article 1.8 D. Join Darrell for an overview of these provisions and common scenarios highlighting their implementation.

Co-Sponsor: Earthworks Stone
www.earthworksstone.com

All attendees receive one MISL Professional Development Hour (PDH) for each of the code officials seminars listed above.

2020 MASONRY INDUSTRY CONTRIBUTORS

PLATINUM PLUS
Midwest Block & Brick

PLATINUM
Irwin Products, Inc.
Raineri Building Materials
Spec Mix

SILVER
Earthworks Stone

BRONZE
Building Products Corporation
Cad Blox LLC
Caliber Cast Stone
Illinois Products Corporation
Lemay Concrete Block

All attendees receive one MISL Professional Development Hour (PDH) for each of the code officials seminars listed above.
What’s Masonry Worth? Let’s compare!

In addition to the great attributes masonry construction naturally brings to the built community such as beauty, durability and strength, masonry is also first-cost friendly. However, since masonry materials also offer such a wide range of colors, patterns, shapes, sizes, and textures, masonry is often compared unevenly to other building systems when it comes to relative cost. When taking a third party “apples to apples” approach to baseline initial cost, masonry proves to be the low-cost leader as shown by the relative cost information below.

Cost are based on the greater St. Louis area union construction market as given by 2020 R.S. Means cost data and represents the installed subcontractor’s price for each baseline loadbearing wall system compared.

Loadbearing Wall Options…Apples to Apples

<table>
<thead>
<tr>
<th>Option</th>
<th>Cost (SF)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMU Single Wythe</td>
<td>$13.47</td>
<td>8 in. Wide Normal Weight Masonry Mortar and Grout Wire Joint Reinforcement Vertical Reinforcement Top Course Bond Beam Vertical Control Joint</td>
</tr>
<tr>
<td>Tilt-Up Concrete</td>
<td>$17.31</td>
<td>7 ½ in. Thick Reinforced Wall Panels Panels Cast on Floor Slab Broom Finish Crane Lifted and Placed Caulked Panel Joints</td>
</tr>
<tr>
<td>Precast Concrete</td>
<td>$42.54</td>
<td>8 ft. x 16 ft. x 4 in. Panel Smooth Gray Finish Truck Delivered 50 Mile Radius Crane Lifted and Placed Caulked Panel Joints</td>
</tr>
</tbody>
</table>

When comparing “apples to apples”, loadbearing concrete masonry is the most economical option. CMU economies increase if one includes the thicker floor slabs required to safely cast tilt-up panels and support crane movements. Extra tilt-up cost may also need to be considered if “leave out” strips around the perimeter of the building slab are used to facilitate tilting panels down to the footing, or the expense of additional casting slabs if numerous mechanical and electrical embeds are desired in the finished floor slab. Setting cost aside, another significant difference between loadbearing concrete masonry and the other choices is both tilt-up and precast are typically connected to the rest of the building system at the panel corners only. This makes those connections critical during high wind or seismic events. In contrast, loadbearing CMU is typically connected to the foundation and roof structure uniformly along its length. This means that even if the connection is lost at the roof, the masonry wall will still resist potential collapse based on the foundation doweling. How do you place a value on that kind of built-in redundancy?

Finally, mason contractors and craftworkers can work simultaneously with other trades, meaning more work can get done faster! When tilt-up and precast installation is being performed other trades are typically restricted from the work area, which must be accounted for in the construction schedule.

Did You Know?
Masonry Can Meet Tight Construction Schedules!

All masonry needs to start construction is the footing. While tilt-up waits for the slab to be installed, the panels formed, cured, and lifted, masonry is already at work! While precast concrete is being shop drawn, reviewed, fabricated, shipped, and finally installed, masonry is already at work!
All contractors are signatory to the Bricklayers’ Union Local No. 1 of Missouri.

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SERVICE AREAS

<table>
<thead>
<tr>
<th>B = Brick, Block &amp; Stone</th>
<th>T = Tuckpointing, Caulking, Cleaning &amp; Waterproofing</th>
</tr>
</thead>
<tbody>
<tr>
<td>P = Paving, Sidewalks, Patios</td>
<td>G = Glass Block</td>
</tr>
</tbody>
</table>

Allied Waterproofing, Inc. (T)
636-671-7722; St. Louis 63129
alliedwater@aol.com
Work Type: Commercial

B & K Tuckpointing Co. (B, T, P, G)
314-721-0033; St. Louis 63130
scott@bandktuckpointing.com
Work Type: Commercial & Residential
Specialties: Chimneys, Outdoor Fireplaces

Burt Masonry, Inc. (B)
314-822-8880; St. Louis 63131
burtmasonry@charter.net
Work Type: Commercial & Residential

Ken Clark Masonry & Son
Restoration & Waterproofing, LLC (B, T, G)
314-772-1952; St. Louis 63110
austin@kenclarkmasonryandson.com
Work Type: Commercial & Residential
Specialties: Chimneys, Caulking, and Restoration

Cornerstone Masonry (B)
314-265-5447; St. Peters 63376
info@cornerstone-masonry.net
Work Type: Commercial & Residential

Gillick Brickwork, Inc. (B, P, G)
314-544-2222; St. Louis 63125
gillickbrickwork@hotmail.com
Work Type: Commercial & Residential
Specialties: Chimneys and Outdoor Fireplaces

Grant Contracting Co., Inc. (B, T, P, G)
636-343-0170; Fenton 63026
brian@grantcontracting.com
Work Type: Commercial

H & H Masonry, Inc. (B)
314-486-2181; Hermann 65041
hhmasonry@ktis.net
Work Type: Residential

Martin C. Heck Brick Contracting Co. (B, T, P, G)
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martinheck@charter.net
Work Type: Commercial & Residential

Jahnsen Masonry Contractors, Inc. (B, T, P, G)
636-274-3352; Cedar Hill 63016
john@jahnsenmasonry.com
Work Type: Commercial & Residential
Specialties: Chimneys, Outdoor Fireplaces, Mailboxes

Lampkin Masonry, Inc. (B, T)
573-236-4655; Hermann 65041
lampkinmasonryinc@gmail.com
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Specialties: Chimneys, Outdoor Fireplaces

Leonard Masonry Acquisitions, LLC (B, T)
314-731-5500; St. Louis 63042
tstahlschmidt@leonardmasonry.com
Work Type: Commercial & Residential
MAV Masonry, Inc. (B, P, G, T)  
618-768-4519; Marissa IL 62257  
mav@egyptian.net  
Work Type: Commercial & Residential

Modern Masonry & Construction, Inc. (B, P)  
314-581-7437; Imperial 63052  
hal.gillmann@gmail.com  
Work Type: Commercial & Residential  
Specialties: Insurance Work, Chimneys, Outdoor Fireplaces

Rupp Masonry Construction Co. (B, T)  
217-223-3259; Quincy IL 62301  
tjrupp@adams.net  
Work Type: Commercial & Residential  
Specialties: Chimneys

Sangiolo-Baker Masonry, LLC (B)  
618-779-8111; Millstadt IL 62260  
sangiolollc@gmail.com  
Work Type: Commercial & Residential

John J. Smith Masonry Co. (B, P, G)  
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johnjr@smithmasonry.com  
Work Type: Commercial & Residential

Superior Waterproofing & Restoration Co., Inc. (T)  
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tom@superiorwaterproofing.com  
Work Type: Commercial

Toenjes Brick Contracting (B)  
618-476-9292; Columbia IL 62236  
dan@tbrick.com  
Work Type: Commercial

True Masonry, LLC (B)  
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dakmckinney@yahoo.com  
Work Type: Residential

Wright Masonry, LLC (B)  
636-578-0279; O’Fallon 63368  
jwright@wrightmasonryllc.com  
Work Type: Residential  
Specialties: Chimneys, Outdoor Fireplaces

Zufall & Sons, Inc. (B)  
636-629-5108; St. Clair 63077  
zufallinc@sbcglobal.net  
Work Type: Residential  
Specialties: Fireplaces
Anchored Brick Veneer Backup Options...  
Apples to Apples

Backup systems for anchored brick veneer is another area where an “apples to apples” approach is needed to correctly determine the best, first-cost choice. Often it is assumed that using a steel stud cavity wall is less expensive than a more traditional loadbearing concrete masonry cavity wall. However, this assumption does not take in to account the overall differences between the two systems. The main difference being that steel stud systems are typically not loadbearing and must have assistance from other vertical and lateral load resisting systems. The cost of these systems should also be included to arrive at a true “apples to apples” comparison.

The total additional cost needed for steel stud veneer backup systems would include the additional required perimeter structural steel beam and column frame and the related additional concrete foundation elements needed to receive point loading from the structural frame. Loadbearing concrete masonry only requires a typical spread footing foundation and of course, being loadbearing, can resist all vertical and lateral loads on its own. Based on these differences, an average 16 ft. x 24 ft. wall panel, and using 2020 R.S. Means cost data, as described previously, here’s how the “apples to apples” comparison turns out.

Concrete Masonry Backup
8 in. LW Reinforced CMU
2 in. Rigid Insulation
2 in. Air Space
4 in. Brick Veneer
Adjustable Anchors
Flexible Flashing & Weeps

$39.65/SF

Steel Stud Backup
6 in. Light Gauge Studs
5/8 in. Interior Drywall
Batt Insulation
2 in. Rigid Insulation
2 in. Air Space
4 in. Brick Veneer
Adjustable Anchors
Building Wrap
Flexible Flashing & Weeps
Added Structural Elements

$44.03/SF

In addition to the cost savings indicated, choosing the concrete masonry option includes all other great masonry cavity wall properties: durability, fire and sound resistance, thermal mass energy performance, and the best overall moisture and condensation resisting wall system out there. The impact resistance of the CMU is also a proven interior surface for all types of commercial and educational projects.
The Masonry Institute of St. Louis (MISL) is primarily funded by contractors through the labor agreement between the Mason Contractors Association of St. Louis and the Bricklayers’ Union Local No. 1 of Missouri. In addition, the MISL receives voluntary contributions from the greater St. Louis area suppliers who wish to further promote the local masonry industry.

This directory provides a listing of the current MISL contributors with important contact information and a description of the general services provided by each industry contributor.

The MISL greatly appreciates the support it receives each year from the masonry industry, in and out of St. Louis. This support allows the Institute to continue the promotion of great union masonry construction and masonry materials to builders, designers, owners and the general public.

We hope you find this directory helpful, especially when making decisions regarding future masonry material purchases.

**BUILDING PRODUCTS CORPORATION**
PO Box 566
Belleville, IL 62222

950 Freeburg Ave.
Belleville, IL 62220
P: 618-233-4427
www.buildingproductscorp.com

Paul Mueth, President
pmueth@buildingproductscorp.com
Aron Rauls, Sales Manager
arauls@buildingproductscorp.com

**Products:** Manufacturer of Concrete and Lightweight Architectural Block and Hardscape Products. Retailer of Face Brick, Masonry Tools & Supplies.

**CAD BLOX, LLC**
1743 Briarmanor Dr.
Lake St. Louis, MO 63367
P: 719-232-5570
www.cadblox.com
www.3DiQInc.com

Tom Cuneio, President
tom@cadblox.com
Mike Riva, Sales Manager
636-675-8114
mike@3DiQInc.com

**Products:** Masonry Modeling Services, BIM Coordination, Laser Scans, Shop Drawings.
Masonry Industry Contributor Directory

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www.calibercaststone.com

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Mike Seidel, Partner
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Products: Cast Stone Manufacturing

EARTHWORKS STONE
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Perryville, MO 63775

16900 A Baxter Rd.
Chesterfield, MO 63005
P: 636-532-0713; 800-532-9510
www.earthworksstone.com

Kevin Thieret, Owner
573-768-1305
kevin.thieret@earthworksstone.net

Jeff Green, VP Sales & Marketing
314-306-3698
jeff.green@earthworksstone.net

Products: Stone, Brick, Landscaping, Masonry Products.

ILLINOIS PRODUCTS CORPORATION
423 Joseph Dr.
South Elgin, IL 60177
P: 800-383-8183
www.illinoisproducts.com

Joe Svejda, President
847-289-2800
joe@illinoisproducts.com

Products: Flip-it Safety Line Block & Corner Pole Admixtures; IPCO Flashing System & Accessories; IPCO Anchor Bolts & Anchor Straps; Control Joints, Joint Fillers, Accessories.

IRWIN PRODUCTS, INC.
8209 Lackland
St. Louis, MO
P: 314-427-8803
www.irwinproducts.com

Drew Johnson, Desk Sales
drewjohnson@irwinproducts.com

Vincent M. Irwin, Desk Sales
vmi@irwinproducts.com

Products: Abrasive Blades, Accelerators, Block Mesh, Cavity Drainage Control, Cleaning & Sealing, Diamond Blades, Flashing, Hydro Mobile Scaffolding, Tools, Wall Braces, Waterproofing, Equipment, etc.
LEMA Y CONCRETE BLOCK
326 E. Courtois
St. Louis, MO 63111
P: 314-638-9940
www.lemayblock.com

Marc Detmer, President
Mike Buckley, Sales
314-280-5066
mbuckley@lemayblock.com

Products: Concrete, CMU Block, Light Weight and Heavy Weight Block, Architectural Masonry Blocks, Rockwood and Verti Block Retaining Walls, Precast Parking Curb/Air Condition Slabs, Outdoor Living Bars and Fireplaces/Fire Pits, Ready Mix Concrete.

MIDWEST BLOCK & BRICK
12901 St. Charles Rock Rd.
Bridgeton, MO 63044
P: 314-291-3200
www.midwestblock.com

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470-543-1337

Jeremy Winegar, Vice President of Sales
Jeremy.Winegar@midwestblock.com
470-543-1336

Tommy Schmidt, Regional Sales Manager
Tommy.Schmidt@midwestblock.com
470-543-1084

Ryan McClard, Mason Contractor Sales
Ryan.Mcclard@midwestblock.com
470-543-1076

Products: Block, Brick, Stone, Hardscapes, Rainscreen Systems, Accessories.

MIDWEST CAST STONE
1610 State Ave.
Kansas City, KS 66102
P: 913-371-3300
www.midwestcaststone.com

Sarah Mathews, Owner
sarah@midwestcaststone.com

Tom Waldschmidt, National Sales Director
314-497-2424
tom@midwestcaststone.com

Products: Cast Stone Manufacturer

MORTAR NET SOLUTIONS
6575 Daniel Burnham Dr., Ste. G
Portage, IN 46368
P: 800-664-6638
www.mortarnet.com

Gary Johnson, President
gjohnson@mortarnet.com

Kelly Cleveringa, Customer Service
219-850-4505
kcleveringa@mortarnet.com

Products: A full range of moisture management solutions for masonry cavity, adhered masonry and single-wythe CMU walls, plus free expert help with bids, bid packages, and masonry wall designs, free product samples for sample walls and mason training, and an extensive library of training videos.
Masonry Industry Contributor Directory

NU WAY CONCRETE FORMS, INC.
4190 Hoffmeister Ave.
St. Louis, MO 63125
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www.nuwayinc.com

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mtownsend@nuwayinc.com

Dave Pazdernik, Account Manager
314-280-5730
dpazdernik@nuwayinc.com

Jeff Rhomberg, Account Manager
314-581-5423
jeffro@nuwayinc.com

Products: Construction Supplies, Sales, Service and Rental, Complete Takeoff Services.

RAINERI BUILDING MATERIALS, INC.
6351 Knox Industrial Dr.
St. Louis, MO 63139
P: 314-781-1573

6 Truitt Dr.
Eureka, MO 63025
P: 314-781-1573
www.raineri-materials.com

Nick Raineri, President
314-574-9953
nickr@raineri-materials.com

Ryan Raineri, Sales
314-574-9954
ryannr@raineri-materials.com

Products: Building Materials, Spec Mix Mortar, Block and Stone, Construction Hardware, Essex Mortar Mixers, and Mayco Pumps.

RICHARDS BRICK COMPANY
234 Springer Ave.
Edwardsville, IL 62025
P: 618-656-0230

3816 Union Blvd.
St. Louis, MO 63115
P: 314-383-1750
www.richardsbrick.com

Mike Semanisin, President
618-656-0230
msemanisin@richardsbrick.com

Mike Hanley, Sales Manager
314-383-1750
mhanley@richardsbrick.com

Products: Clay Brick, Thin Brick, Natural Stone and Manufactured Stone.

SPEC MIX
701 Marshall Rd.
Valley Park, MO 63088
P: 636-225-3231
www.specmix.com

Craig Kasten, Salesman Bulk Sales
314-565-4892
craig.kasten@quikrete.com

Mike Rolf, Masonry Sales Regional Manager
414-640-1373
mike.rolf@quikrete.com

Products: Bulk Silo System, Mortars, Grouts, Quikrete/Spec Mix, Stone Products, Shotcrete, etc.
## Handy Masonry Information

### IBC Quick Reference

<table>
<thead>
<tr>
<th>Design Standards</th>
<th>2015</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. Building Loads</td>
<td>ASCE 7-10</td>
<td>ASCE 7-16</td>
</tr>
<tr>
<td>Masonry Design</td>
<td>TMS 402-13</td>
<td>TMS 402-16</td>
</tr>
<tr>
<td>Masonry Specification</td>
<td>TMS 602-13</td>
<td>TMS 602-16</td>
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<tr>
<td>Masonry Fire Ratings</td>
<td>TMS 216-13</td>
<td>TMS 216-13</td>
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<tr>
<td>Masonry Sound Ratings</td>
<td>TMS 302-12</td>
<td>TMS 302-12</td>
</tr>
<tr>
<td>Storm Shelter Design</td>
<td>ICC 500-14</td>
<td>ICC 500-14</td>
</tr>
</tbody>
</table>

### ASTM

| Clay Face Brick            | C 216-13     | C 216-15     |
| Clay Hollow Brick          | C 652-13     | C 652-15     |
| Loadbearing CMU            | C 90-13      | C 90-15      |
| Masonry Mortar             | C 270-12a    | C 270-14a    |
| Masonry Grout              | C 476-10     | C 476-10     |

### Specified Compressive Strength of Masonry, f’m

| Min. Building Loads       | 2,000 psi    |
| Recommended:              | 2,500 psi    |

Verify as-built concrete masonry compressive strength per TMS 602-16 Unit Strength Method. No testing required when using ASTM approved CMU and mortar.

<table>
<thead>
<tr>
<th>CMU Compressive Strength</th>
<th>As-Built Masonry Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,000 psi*</td>
<td>2,000 psi</td>
</tr>
<tr>
<td>2,600 psi</td>
<td>2,250 psi</td>
</tr>
<tr>
<td>3,250 psi</td>
<td>2,500 psi</td>
</tr>
</tbody>
</table>

* ASTM C 90 minimum compressive strength, verify higher strengths with CMU manufacturer

### Mortar and Grout Above Grade Wall Recommendations

Mortar recipe per C 270 Proportion Method (no field testing)

- Type N: Anchored Veneer
- Type S: Loadbearing CMU

Grout strength to be greater than or equal to f’m. Use standard C476 recipe when f’m ≤ 2,000 psi. Use C476 Strength Method recipe when f’m > 2,000 psi. (C 1019 grout testing required)

### Recommended Mortar Joint Tooling

- Best water shedding joint types
  - Concave
  - Vee

- Tool joints when mortar is “thumb print” hard

### Loadbearing CMU

#### Average Energy, Fire Resistance and Sound Transmission Ratings

<table>
<thead>
<tr>
<th>U-Factor</th>
<th>Foamed Cells</th>
<th>No Grout</th>
<th>Grouted Cells</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 in. CMU Single Wythe</td>
<td>0.182</td>
<td>0.455</td>
<td>0.553</td>
</tr>
<tr>
<td>12 in. Pre-Insulated CMU Single Wythe</td>
<td>---</td>
<td>0.091</td>
<td>0.095</td>
</tr>
<tr>
<td>16 in. Insulated Cavity Wall</td>
<td>---</td>
<td>0.085</td>
<td>0.087</td>
</tr>
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</table>

#### Fire Rating

<table>
<thead>
<tr>
<th></th>
<th>No Grout</th>
<th>Full Grout</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 in. CMU Single Wythe</td>
<td>2 Hr.</td>
<td>&gt;4 Hr.</td>
</tr>
<tr>
<td>12 in. Pre-Insulated CMU Single Wythe</td>
<td>&gt;4 Hr.</td>
<td>&gt;4 Hr.</td>
</tr>
<tr>
<td>16 in. Insulated Cavity Wall</td>
<td>&gt;4 Hr.</td>
<td>&gt;4 Hr.</td>
</tr>
</tbody>
</table>

#### Sound (STC)

<table>
<thead>
<tr>
<th></th>
<th>No Grout</th>
<th>Full Grout</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 in. CMU Single Wythe</td>
<td>51</td>
<td>55</td>
</tr>
<tr>
<td>12 in. Pre-Insulated CMU Single Wythe</td>
<td>49</td>
<td>60</td>
</tr>
<tr>
<td>16 in. Insulated Cavity Wall</td>
<td>55</td>
<td>62</td>
</tr>
</tbody>
</table>

### Notes:

- Widths shown are nominal
- CMU density: 115 pcf
- 2018 IECC maximum U-Factor for Zone 4 commercial mass walls: 0.104 (compliance can also be determined via COMcheck or by whole building analysis)
- See TMS 216 (fire resistance) and TMS 302 (sound resistance) for additional information
- CMU properties may vary per manufacturer and application

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Information shown is for educational purposes only. Please contact the Masonry Institute of St. Louis for additional assistance with applying masonry design and construction properties to individual projects.