

National Custom Hollow Metal Doors & Frames

Built right the first time. Every time.



STAINLESS STEEL

LEAD LINED

HOLLOW METAL

GALVANNEAL

6 PANEL DOORS

NATIONAL

CUSTOM HOLLOW METAL DOORS & FRAMES

The difference is quality.

National Custom Hollow Metal Doors & Frames

offers an extensive range of custom-crafted CR-A60 galvaneal, 304 and 316, stainless steel, and lead-lined metal doors and frames to accommodate your project planning and expedite your building schedule. Whether destined for heavy-duty industrial environments, hospitals and laboratories, restaurants or storefronts, our doors are expertly crafted to precise tolerances and exact specifications out of materials specifically chosen to ensure superior durability, appearance and ease of operation.

LABELED DOOR TYPES

Our extensive door product line includes Certified labeled products manufactured in strict accordance with the specifications and procedures as determined by Underwriters Laboratories or Warnock Hersey International testing and inspecting services. Certified labeled doors meet every requirement for fire protection and are labeled accordingly:

A Label = 3 Hours

B Label = 1-1/2" Hours

C Label = 3/4 Hour

20 Minute Label

Sever Windstorm Hurricane Labeled

Single

Door Series	Max. Size	Label Available
DST-8	4'0" x 10'0"	A, B, C, 20 min
DST-6	5'0" x 12'0"	B, C, 20 min
DP	4'0" x 8'0"	B, C, 20 min
DH	3'4" x 8'0"	A, B, C, 20 min

1-3/8" doors can be labeled up to 45 min. Maximum size of 3072. Door must be 16 gauge steel stiffened.

Pair

Door Series	Max. Size	Label Available
DST-8	8'0" x 12'0"	A, B, C, 20 min
DST-6	10'0" x 12'0"	B, C, 20 min
DP	8'0" x 8'0"	B, C, 20 min
DH	8'0" x 8'0"	B, C, 20 min

Louver

Door Series	Max. Size	Label Available
DST-6	4'0" x 8'0"	B, C, 20 min

Fusible link louver required. Maximum louver size: 24" x 24". Glass lites or fire exit hardware is not approved.

Double Egress Doors and Frames

Door Series	Max. Size	Label Available
E-16	8'0" x 8'0"	A, B, C, 20 min
E-16	8'0" x 10'0"	B, C, 20 min

Frame gauge: 16 and 14. Jamb depth: 5" min. - 16" max. Vertical rod exit devices required on each leaf. Welded-on astragal required. 100 square inches of exposed glass permitted per leaf.

Stainless Doors – DEFENDDOOR

Door Series	Max. Size	Label Available
DP/HP Single	3'4" x 8'0"	A, B, C, 20 min
DP/HP Single	4'0" x 8'0"	B, C, 20 min
DP/HP Pair	8'0" x 8'0"	B, C, 20 min

DEFENDDOOR is a national brand of stainless doors and frames manufactured by NCHM, right here in the U.S.A. Each unit is custom manufactured to achieve a flawless appearance and deliver outstanding performance and lasting value.

FRAME TYPES

NCHM produces a variety of frames to meet every application, allowing maximum design flexibility without compromising strength and structural integrity.

Stainless Steel

High-performance stainless steel frames are available as standard and custom openings, borrowed lites, side lites and transom frames. Stainless hollow metal frames are formed of 16 gauge or 14 gauge, Type 304 or 316 stainless, No. 3, 4 or 2b mill-finish stainless steel.

Knock Down (KD)

"Easy" describes our KD frame assembly process. A unique interlocking mitered corner joint creates a quick, clean connection in seconds. Simply insert jambs into the header and bend tabs over to secure the assembly.

Frame Series	Type	Gauge Steel
S, D	Double Rabbet	16, 14, 12
C	Case Opening	16, 14, 12
SR, DR	Single Rabbet	16, 14, 12
E	Double Egress	16, 14, 12

UL, WHI and Certified labels are available. Lead lining of frames is available where required.



The difference is quality.

Tested and true

NCHM proudly offers CR-A60 galvaneal, DEFENDDOOR – stainless steel and TRUSTSHIELD – lead-lined doors and frames, constructed to conform to Commercial Standard. They are fabricated from premium-quality CR-A60 galvaneal steel in accordance with ASTM A525, or stainless steel in accordance with ASTM A240. Galvaneal and stainless steel doors and frames, have vigorous hurricane, impact, and fire rated codes certifications and standards. (StormPro™ Vision Kits by Anemostat® are optional.)

Size, shape and short lead times are never an issue

With precision engineering, rigorous testing and time-honored workmanship we'll turn your ideas and designs into doors and frames of superb quality.

door&frametypes

Stick

Ideal for fabricating complete frame assemblies on location. Furnished blank or with provisions ready for hardware. Simple, reliable and time-efficient!

Frame Series S, D, C, SR, DR, ER
Gauge Steel 16, 14, 12

Drywall

Our unique Surlock Drywall Corner Connection makes frame installation fast and neat. Frame can be installed after dry walling is complete in as little as four minutes.

Stainless Frames – DEFENDDOOR

NCHM's DEFENDDOOR stainless hollow metal frames are available as standard and custom openings, borrowed lights, side lights and transom frames.

Also Available:

- Transom panel frames without bar
- Transom frames with bar and metal panel
- Transom frames with bar and glazing bead
- Multiple opening frames with transom panel or lites and/or side panels or lites
- 90 minutes borrowed lite frames
- 90 minutes without hose stream borrowed lites
- 90 minutes without hose stream side-lite frames
- Labeled frames for



Pocket Door

Pocket door frames create an elegant, clean-line design for walls and floor areas with space-saving requirements. A variety of sizes can be custom-crafted to meet your design specifications.

Arched Doors and Frames

Classically styled and powerfully built, NCHM's arched doors and frames are superbly crafted for enduring beauty and performance. Choices include products made from stretch-formed, premium-quality cold-rolled A60 galvanized steel or stainless steel. Removable glass stops to match the curvature of frame are factory pre-fit for the glass thickness required in all areas where glass is to be field-installed. Factory pre-fit arched frames are also available to match curvature of frame.

Stainless Spats

Stainless steel spats facilitate easy cleaning of the door frame and provide a protective layer from corrosive chemicals or other elements that can harm typical galvanized or cold-rolled steel frames. Stainless spats are available from 4" up to the full frame height.

Labeled Three-Sided Frames

Frame Series	Max. Size	Label Available
S-Sql.	4'0" x 10'0"	A, B, C, 20 min
S-PAIRS	8'0" x 10'0"	A, B, C, 20 min
S-Sql.	5'0" x 12'0"	B, C, 20 min
S-PAIRS	10'0" x 12'0"	B, C, 20 min
D-16-Sql.	4'0" x 9'0"	B, C, 20 min
D-16-Pairs	8'0" x 9'0"	B, C, 20 min
E-16	8'0" x 8'0"	A, B, C, 20 min
E-16	8'0" x 10'0"	B, C, 20 min





Chris Mathews,
President

Shea Mathews,
Vice President

Evan Mathews,
Vice President

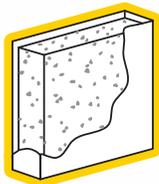
Christine Mathews,
Vice President

The Mathews family carry on NCHM's long-standing tradition of quality with a sharpened focus on continuous product improvement and quick turnaround time.

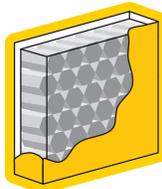
Our Expertise... Your Advantage

Customers have questions, and we have more than just textbook answers. Our highly knowledgeable and friendly staff offers the specialized insight only experience can offer. When a customer calls to order a door or frame, we talk about the specific requirements and help them choose the best product for the job. And while we strive to innovate and advance our products, nothing excites us more than giving our customers exactly what they need.

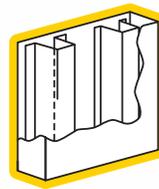
doorcores:



Polystyrene



Honey Comb



Steel Stiffened



Lead Lined

Polystyrene – With safety and insulating performance in mind, self-extinguishing polystyrene panels are used to fill the door cavity. This high-density layer of insulation provides superior resistance to the transfer of heat and cold, and also serves as a sound-deadening barrier to achieve quiet comfort in your environment.

Honey Comb – NCHM Honeycomb cores are sourced from “Hexacomb” and are premium quality “Expanded Phenolic Impregnated panels” honeycomb core possessing tremendous compression strength in our doors when the project requires a Honeycomb core for specification or to meet strict fire ratings. Also available in our galvaneal door construction when requested.

Steel Stiffened – Performance-engineered 22-gauge vertical hat-shaped steel stiffeners and facings are spot-welded on 6” or 8” centers to create a rugged door that can stand up strong to everyday impact. An excellent choice for schools, factories, hospitals and other high-traffic applications.

Lead Lined – Lead-lined doors feature a continuous sheet of lead between a panel of high-density polystyrene. The lead sheet extends the full width and height of the door. and Lead-lined frames also are available in the same material as doors, and both doors and frames can be labeled up to 1-1/2 hour with maximum thickness of 3/32”.

Straight out, our customers tell us that our doors are stronger and more durable, and that they just last longer. The fact that much of our manufacturing process is handcrafted and hand-welded makes for a better door. When you compare NCHM doors with the competition, you'll see—and feel—the quality difference.

builtstronger

customdoors:

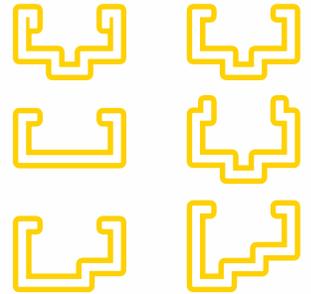
- Stainless Steel**
- Galvanneal**
- Polystyrene**
- Steel Stiffened**
- Lead Lined**
- Arched**
- Fire Rated**

customframes:

- Stainless Steel**
- Galvanneal**
- Lead Lined**
- Pocket Door**
- Arched**
- Stainless Spats**
- Fire Rated**

standardprofiles:

- Drywall**
- Cased Opening**
- Single Rabbet**
- Double Rabbet**
- Shadow Line**
- Double Egress**



Doors are compressed with 100 PSI of pressure to ensure proper lamination and a flat, uniform surface. Our new Amada 2205 ND 225 ton Press Brake with 6 Axis Back Gauge, CNC programming and Auto-Crowning bed ensures that dimensions and shapes are formed to exact specifications.

Custom or complex frame designs can be furnished as welded or shipped knocked-down for field or shop welding.

Under the ownership of the Mathews family, our long-standing tradition of excellence continues as the cornerstone of our success. When it comes to choosing the best source for all your custom-built and pre-engineered steel doors and frames, you can depend on NCHM for exceptional quality, service and value.



Choose from a wide variety of standard door designs available in 18, 16, 14, 12 gauge galvanneal steel and type 304 or 316 stainless steel with either polystyrene, honey comb, or vertical steel stiffened cores. NCHM doors and frames meet or exceed nationally recognized and accepted test standards and criteria. Using independent testing and certification agencies, our products earn consistently high marks for quality and performance.



A higher level of craftsmanship and attention to detail

Superior products and outstanding service. Industry-leading turnaround time for custom orders. The dedication to meet every customer's needs, every day. At National Custom Hollow Metal Doors & Frames, we give you much more than doors.

Pride in our work and a drive for perfection translate into products of superior form, fit and function—as well as a higher level of consistent quality and cost efficiency.

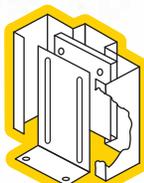
Let NCHM quote your next project!

800.334.3070

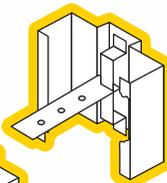
ph: 501.372.3441
fx: 501.375.3070



Wood Stud Clip



ADJ FL Clip



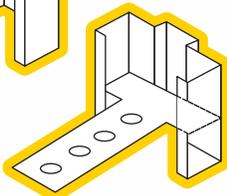
ADJ Loop Anchor



Channel Stud "Z" Clip



Wire Anchor



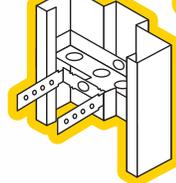
Masonry T



Welded Floor Clip



EOC Bolt Spacer



Multipurpose Anchor

builtstronger

quality components

No Part Goes Unnoticed! Because every facet of our door and frame construction contributes to overall product performance, we incorporate only quality-proven components to finish the job.

Reinforcements – Mortised hardware items are drilled and tapped at the factory. Reinforcements for surface-applied hardware will be drilled and tapped in the field by the contractor.

Start smart. **Finish strong.**

The confidence that under our watchful eyes and skilled hands every door and frame is built to stand strong, fit with precision, and provide years of excellent service.

The promise that from raw materials through production, our products are rigorously tested and inspected to meet or exceed industry standards for structural integrity and performance.

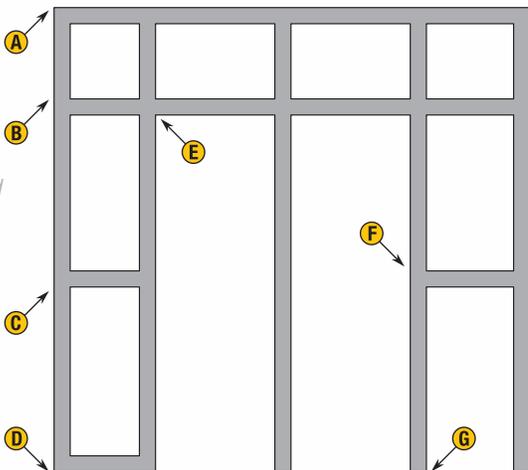
The trust that our doors and frames are backed by the full faith of our more than four decades of industry expertise.

NCHM is a substantial departure from your ordinary door and frame manufacturer. As a family-owned company, we do things a little differently. From the day you place your order to the day your product is shipped, every employee's hands and eyes are involved in the production process to make certain your product is in top condition. We will get to know you, your business, and how we can best serve your needs. With a mixture of industry insight and people energy, we will strive not only to satisfy you—but to make you happy.



n a t i o n a l c u s t o m h o l l o w m e t a l . c o m

Section Details of Typical Welded Assemblies

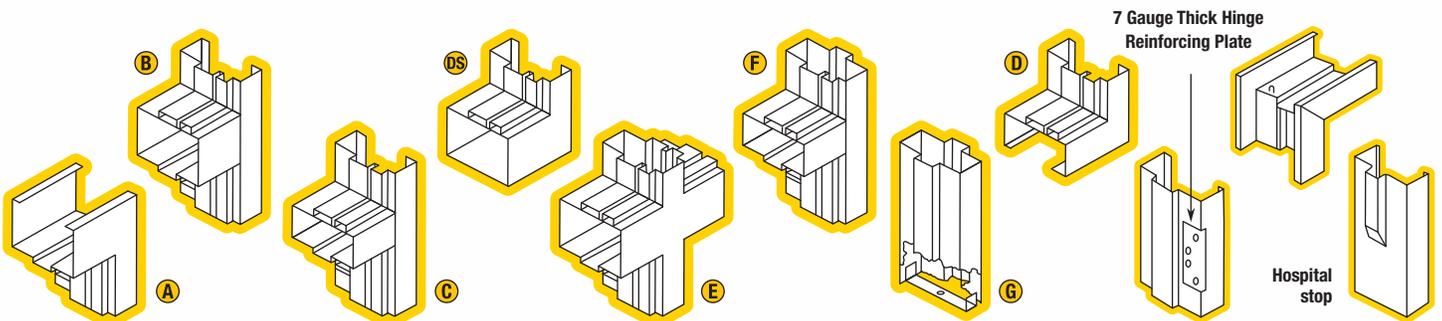


Our expert craftsmen assemble and weld typical frames as well as borrowed lite, side lite, and elaborate window wall frames to exacting dimensions.

Corners – Corners can be supplied face-welded and ground smooth, or full-throat back welded. Pharmaceutical grade throat welded for DefendDoor stainless steel.

Weld Types – Frame assemblies are shipped to the jobsite completely welded. Field joints are permitted when the size of the total assembly exceeds shipping limitations, materials limitations, or restricted access for installation.

Anchors – Frames are furnished with a minimum of six proper anchors of manufacturer's standard design as required by wall conditions. Frames have sill anchors welded to the bottom of all jambs for attachment to the finished floor.



quikship (standard)

Doors:

Stainless Steel
Galvanneal
Polystyrene
Steel Stiffened
Lead Lined
Arched
Fire Rated

Frames:

Stainless Steel
Galvanneal
Lead Lined
Pocket Door
Arched
Stainless Spats
Fire Rated

beautifully built and crated with care

It is our companywide pledge and never-ending ambition to have our products arrive at your jobsite in perfect condition. To that end, doors and frames are meticulously wrapped in impact-absorbing materials and carefully packaged in heavy-duty wooden crates. We take every measure to ensure a smooth and timely arrival. If a problem does occur, rest assured we will do what we can to help make it right.



The difference is quality.

There's no substitute for experience and hands-on product knowledge. NCHM has assembled a hard-working team through the years. Our people truly make the quality difference.

© 2017, National Custom Hollow Metal Doors & Frames

GALVANNEAL
quikship

FRAMES-DOORS

5-10

working days
(standard)

When you need it now and need it right—

Our standard lead time is Quik Ship. We can turn around orders for any typical galvanneal door or frame in 5 - 10 days, a significant time savings compared to the 6 or 8 weeks lead time required by many larger manufacturers.

We listen. We build. We deliver—fast.

No one delivers faster or build 'em better—

For those critical times when you are in a bind, we answer the call with unmatched performance power. We will walk your order through our production facility and get it to you in record time.

hotrush

FRAMES in **1**

working day

DOORS in **3**

working days

NATIONAL

CUSTOM HOLLOW METAL DOORS & FRAMES

nationalcustomhollowmetal.com

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ph: 501.372.3441
fx: 501.375.3070

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1701 East 22nd Street, Little Rock, Arkansas 72206

