DESIGN AND MANUFACTURING OF STEEL DOORS AND FRAMES

delafontaine.com
“BEHIND EACH OF OUR DOORS, THERE IS AN ORIGINAL IDEA, THE LATEST TECHNOLOGY, AND A TEAM THAT IS READY TO COMBINE THE STRENGTH OF STEEL WITH THE POWER OF DESIGN.”

OUR AFFILIATIONS AND ACCREDITATIONS

- Door & Hardware Institute (DHI)
- Construction Specification Institute (CSI)
- National Association of Architectural Metal Manufacturers (NAAMM)
- ISO 9001: 2008
- ITS Warnock Hersey + British Standards
- AIA Provider
De la Fontaine Industries offers a complete line of high quality hollow metal doors and frames built with galvannealed steel or stainless steel. Our company expertise and reputation for reliability is based on more than 45 years of experience in the door industry.
DE LA FONTAINE
OUR FAMILY. YOUR SUCCESS.

1968
Incorporation of DE LA FONTAINE in Sherbrooke (Quebec, Canada) by Gérald de La Fontaine. A visionary, he is the first in the Eastern Townships market to offer interior doors with pre-assembled frames.

1973
The company moves to its current location on Brodeur Street, occupying 12,000 square feet.

1976
DE LA FONTAINE expands in Quebec thanks to several partnerships.

1980

1982
The second generation arrives on the scene as Robert de La Fontaine succeeds his father.

1986
The company expands its operations in the US: René Bouchard, previously responsible for sales, opens the first US warehouse in Hartford, CT.

1989
Mass production of the first steel door begins.
## OUR MISSION
To exceed our clients’ expectations by delivering the most innovative and high-performance solutions in the field of architectural openings.

## OUR VISION
It is through persistent innovation and out-performance that we have grown and will continue to grow. All our organizational and team efforts unite to achieve a single goal: to be recognized worldwide as the most trusted reference for architectural openings.

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
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<tbody>
<tr>
<td>1990</td>
<td>Steel is adopted for all door and frame production.</td>
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<td>1993</td>
<td>Increased development in the US market is driven by a partnership with Smoot Associates, Inc.</td>
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<td>1995</td>
<td>The “Toyota” management model and added-value production principles are adopted.</td>
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<td>1998</td>
<td>The company is well established in the US Northeast. France, Richard and Anie de La Fontaine have all joined their brother Robert in investing in the family business.</td>
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<td>1999</td>
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<td>2000</td>
<td>Expansion of the Sherbrooke facility to accommodate a new prefinishing line. The factory now occupies 60,000 square feet.</td>
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<td>2007</td>
<td>Market launch of a line of prefinished products with flexible designs that combine performance and esthetics while maintaining fire-resistance standards.</td>
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<tr>
<td>2009</td>
<td>International development: the company’s reputation gains notoriety in new markets (Middle East, Latin America, etc.).</td>
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<td>2010</td>
<td>Transformation of the Woburn, MA warehouse into a flexible factory.</td>
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<td>2011</td>
<td>The third generation joins the company: the arrival of Gabriel de La Fontaine and Ghyslain Dubois brings new dreams, new ideas and new energy.</td>
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<td>2012</td>
<td>Major investments in the Sherbrooke facility in order to support current and future growth at DE LA FONTAINE.</td>
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<tr>
<td>2013</td>
<td>Launch of Microsoft Dynamics AX 2012 integrated management software.</td>
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QUALITY PRODUCTS, RELIABLE SERVICE, AND 2-WEEK DELIVERY*: THIS IS THE COMBINATION THAT MAKES US A TRUE PARTNER.

DE LA FONTAINE industries offers a complete line of high quality hollow metal doors and frames built with galvannealed steel or stainless steel. These are available as standard products as well as more complex or custom-designed products. You choose the options that suit your project, as each product is made to order according to YOUR NEEDS.

**LEADTIME/SERVICE**

**WITHIN 2 WEEKS***:
Custom or standard galvannealed hollow metal doors, frames (including split frames) and sidelites, including continuously welded products, primed or not.

**WITHIN 4 WEEKS***:
Prefinished powder-coated hollow metal doors, frames and sidelites.

**WITHIN 4 WEEKS***:
Stainless steel, lead-lined, and acoustical products, including continuously welded products.

* Larger or more complex projects may require additional time. For more details, please call our customer service.

**MATERIAL**

Our products are made with galvannealed steel with a coating of a zinc-iron alloy. This alloy offers better corrosion resistance than primed cold-rolled steel and requires less surface preparation for painting than hot-dipped galvanized steel (G60-G90).

For interior openings, DE LA FONTAINE offers the A40 (ZF 120) designation; for exterior applications or wet areas, the A60 (ZF 180) designation is available.

DE LA FONTAINE also offers stainless steel 304 and 316, finish no.4 (satin finish) for environments in the presence of corrosive products or for wet areas.

**QUALITY ASSURANCE**

- More than 45 years of experience as a manufacturer in the industry.
- Quality products manufactured with state-of-the-art equipment.
- Meeting or exceeding industry standards.
- Our Sherbrooke facility is ISO 9001: 2008 certified.

**STEEL COMPLIANCE**

**ASTM A653/A653M**
Our galvannealed steel complies with ASTM A653/A653M (Standard Specification for Steel Sheet, Zinc-Coated (Galvanised) or Zinc-Iron Alloy Coated (Galvannealed) by the Hot Dip Process).

**ASTM A240/A240M**

**STEEL GAUGES**
For quality purpose, our steel gauges exceed industry standard NAAMM/HMMA 803 (steel tables).
**FIRE RATING**

The basic requirements and limitations regarding DE LA FONTAINE fire doors and frames are defined by the National Fire Protection Association, NFPA 80 (Standard for Fire Doors and Other Opening Protectives).

**Our products also comply with the following standards:**

- UL 10C (Standard Positive Pressure Fire Tests of Door Assemblies)
- NFPA 252 (Standard Methods of Fire Tests of Door Assemblies)
- NFPA 257 (Standard on Fire Test of Window and Glass Block Assemblies)
- BS-476-22 British Standard (Fire Resistance Test to Building Material - Non loadbearing elements)

Because the DE LA FONTAINE team is dedicated to innovation and new product development, we purchased our own testing facility. Once product development is complete, we perform a final test at Intertek Testing Services (ITS/Warnock Hersey) to receive their approval and obtain listing, labeling, and follow-up services for the fire-rated products we manufacture.

1 For additional information on fire-rated doors and frames manufactured by DE LA FONTAINE, visit our website or contact your sales representative or our customer service team.

**PRIMER AND PAINT**

Our galvannealed steel is suitable for immediate painting, although we also offer water-borne primed products and factory prefinished products using a durable powder-coating process.

**PRIMER**

- Our primer improves protection against humidity and corrosion and can be covered with any type of coating.
- Water-borne, it complies with current environmental standards due to its low VOC content.
- Our primer exceeds ANSI standard A250.10 (Test Procedures and Acceptance Criteria for Factory Applied Finish Painted on Steel Surfaces for Steel Doors and Frames).

**PAINT**

- Powder-coated paint is available for many of our products. Our standard color palette includes several colors and can be complemented by custom colors as needed. Please consult our “Paint” technical data sheet on our website for more information.
- Powder-coated paint:
  - Offers durability and a quality finish
  - Reduces coordination on jobsite
  - Does not contain any solvents or VOCs (volatile organic compounds)
- Exceeds ANSI standard A250.3 (Test Procedures and Acceptance Criteria for Factory Applied Finish Painted on Steel Surfaces for Steel Doors and Frames).

**ECOLOGICAL RESPONSIBILITY**

DE LA FONTAINE has adopted ecological principles aimed to consume less, pollute little and recycle more. Here are some examples of our commitments:

- LEED-NC version 3.0 MR Credit 4.1 Certification (Leadership in Energy and Environmental Design)
- 100% recycling of steel waste
- Recycling of production waste
- Recycling of wood transport pallets

**RECYCLED CONTENT**

The total recycled content of our galvannealed steel is approximately 89.7%.

This includes:

- A total post-consumer content of 50.6%
- A total post-industrial content of 33.3%
- The remaining 5.8% is comprised of home scrap.

The total recycled content of our stainless steel is over 85%. However, the mill makes no distinction as to the origin of the scrap.
HC SERIES
HONEYCOMB CORE

KEY FEATURES
- 1” (25.4 mm) hexagonal cell Kraft paper core
- Excellent crushing strength
- 1 3/4” door thickness only
- Edge seam options:
  - Lock seam (PA) 20-, 18- or 16-gauge
  - Lock seam and putty filled (PAF) 20-, 18- or 16-gauge
  - Continuously welded seamless edge (CW) 18-, 16- and 14-gauge

Performance
- PA18: 500,000 cycles per ANSI A250.4
- CW18: 1,000,000 cycles per ANSI A250.4
- STC36 (operable rating with appropriate gasketing)

Fire Ratings
- Available up to 3 hours.
  Please consult our chart on our website for size limitations.

STANDARD FEATURES
- A40 galvannealed material
- 16-gauge top and bottom welded inverted channel
- Both edges beveled 1/8” in 2”

OPTIONS
- A60 or G90 material
- Flush or sealed top and bottom welded channel
- Primer for A40 and A60
- Factory prefinishing – powder coat only

HARDWARE REINFORCEMENTS
- Hinges: 10-gauge high-frequency (optional: 7-gauge plate)
- Closer: 16-gauge (optional: 14-gauge, 12-gauge)
- Locks: 12-gauge
PS SERIES
POLYSTYRENE CORE

KEY FEATURES
- Interior and exterior usage
- Expanded polystyrene core
- 1 3/4” door thickness standard (available 1 3/8” to 2 1/4”)
- Edge seam options:
  - Lock seam (PA) 20-, 18- or 16-gauge
  - Lock seam and putty filled (PAF) 20-, 18- or 16-gauge
  - Continuously welded seamless edge (CW) 18-, 16-, 14- and 12-gauge
- R-Factor (metric values in parentheses)
  - ASTM C518: R7.03 (R1.24)
  - ASTM C1363: R2.44 (R0.43)
  - NFRC 102: R2.63 (R0.46)

Performance
- PA18: 1,000,000 cycles per ANSI A250.4
- CW16: 6,000,000 cycles per ANSI A250.4

Fire Ratings
- Available up to 1-1/2 hours.
  Please consult our chart on our website for size limitations.

STANDARD FEATURES
- A40 galvannealed material
- 16-gauge top and bottom welded inverted channel

OPTIONS
- A60 or G90 material
- Flush or sealed top and bottom welded channel
- Primer for A40 and A60
- Factory prefinishing not available

HARDWARE REINFORCEMENTS
- Hinges: 10-gauge high-frequency (optional: 7-gauge plate)
- Closer: 16-gauge (optional: 14-gauge, 12-gauge)
- Locks: 12-gauge
PU SERIES
POLYURETHANE CORE

KEY FEATURES
- Mostly exterior usage
- Polyisocyanurate (polyurethane) core
- 1 3/4” door thickness only
- Edge seam options:
  - Lock seam (PA) 20-, 18- or 16-gauge
  - Lock seam and putty filled (PAF) 20-, 18- or 16-gauge
  - Continuously welded seamless edge (CW) 18-, 16-, 14- and 12-gauge
- R-Factor (metric values in parentheses)
  - ASTM C518: R10.2 (R1.8)
  - ASTM C1363: R2.63 (R0.46)
  - NFRC 102: R2.8 (R0.49)

Fire Ratings
Available up to 1-1/2 hours.
Please consult our chart on our website for size limitations.

STANDARD FEATURES
- A40 galvannealed material
- 16-gauge top and bottom welded inverted channel

OPTIONS
- A60 or G90 material
- Flush or sealed top and bottom welded channel
- Primer for A40 and A60
- Factory prefinishing – powder coat only

HARDWARE REINFORCEMENTS
- Hinges: 10-gauge high-frequency (optional: 7-gauge plate)
- Closer: 16-gauge (optional: 14-gauge, 12-gauge)
- Locks: 12-gauge
ST SERIES
STEEL STIFFENED CORE

KEY FEATURES

- Increased durability and security
- Interior and exterior usage
- Bonded 18-gauge steel stiffeners 6” o.c. with industrial adhesive
- Voids between stiffeners filled with:
  - Polystyrene, all door thickness available
  - Polyurethane, 1-3/4” door thickness only
  - Mineral wool, 1-3/4” door thickness only
- Edge seam options:
  - Lock seam (PA) 18- or 16-gauge
  - Lock seam and putty filled (PAF) 18- or 16-gauge
  - Continuously welded seamless edge (CW) 18-, 16-, 14- and 12-gauge
- R-Factor (metric values in parentheses)
  - STY: ASTM C1363: R1.54 (R0.27)
  - URE: ASTM C1363: R1.7 (R0.29)
  - MW: ASTM C1363: R1.8 (R0.32)

Performance

- Polystyrene: Windstorm Class 1, 70 PSF, 350 ft-lbs.
  See Windstorm-resistant openings section p.33 for more details.

Fire Ratings

Available up to 1-1/2 hours for polystyrene and mineral wool.
Please consult our chart on our website for size limitations.

STANDARD FEATURES

- A40 galvannealed material
- 16-gauge top and bottom welded inverted channel

OPTIONS

- A60 galvannealed material
- Flush or sealed top and bottom welded channel
- Laser welded stiffeners
- Primer for A40 and A60
- Factory prefinishing – powder coat only

HARDWARE REINFORCEMENTS

- Hinges: 10-gauge high-frequency (optional: 7-gauge plate)
- Closer: 16-gauge (optional: 14-gauge, 12-gauge)
- Locks: 12-gauge
KEY FEATURES
- Reinforced fire protection for building occupants
- Mostly for doors in the path of egress
- Two core types available:
  - Solid mineral slab
  - Steel stiffened with mineral wool
- 1 3/4" door thickness only on mineral slab
- 1 3/4" and 2" door thickness on steel stiffened
- Edge seam options:
  - Lock seam (PA) 18- or 16-gauge
  - Lock seam and putty filled (PAF) 18- or 16-gauge
  - Continuously welded seamless edge (CW) 18-, 16-, 14- and 12-gauge
- R-Factor (metric values in parentheses)
  - ASTM C518: R3.9 (R0.69)

Performance (Mineral Slab)
- 250°F in 30 minutes, up to 1-1/2 hours fire rating
- 450°F in 60 minutes, up to 3 hours fire rating
- 450°F in 30 minutes, up to 1-1/2 hours fire rating

Performance (Steel Stiffened with Mineral Wool)
450°F in 30 minutes, up to 1-1/2 hours fire rating

Fire Ratings
Please consult our chart on our website for size limitations.

STANDARD FEATURES
- A40 galvannealed material
- 16-gauge flush and welded top and bottom cap (standard for mineral slab)
- 16-gauge top and bottom welded inverted channel (standard for steel stiffened)

OPTIONS
- A60 or G90 material
- Primer for A40 and A60
- Factory prefinishing – powder coat only

HARDWARE REINFORCEMENTS
- Hinges: 10-gauge high-frequency (optional: 7-gauge plate)
- Closer: 16-gauge (optional: 14-gauge, 12-gauge)
- Locks: 12-gauge
KEY FEATURES

- Ensures both quiet and privacy
- Steel stiffened with mineral wool
- Opening size up to 4'0” x 8’0”
- Pairs of doors have not been tested, calculated rating only
- Edge seam options:
  - Lock seam (PA) 16-gauge
  - Lock seam and putty filled (PAF) 16-gauge

Performance

- Complies with ASTM E90 and ASTM E413
- Door slab achieved STC rating of 52
- Operable door, frame and gasketing achieved STC rating of 47. Assembly includes a 14-gauge cased open frame.

STANDARD FEATURES

- A40 galvannealed material
- 16-gauge flush and welded top and bottom cap

OPTIONS

- A60 or G90 material
- Primer for A40 and A60
- Factory prefinishing – powder coat only

HARDWARE REINFORCEMENTS

- Hinges: 14-gauge full surface continuous hinge (optional: 7-gauge plate)
- Closer: 16-gauge (optional: 14-gauge, 12-gauge)
- Locks: 12-gauge

Included hardware (with STC47 assembly only)

- Full surface continuous geared hinge
- Adjustable perimeter sound seal
- Rabbeted threshold
- Automatic surface door bottom
- Security astragals (for pairs only)
**KEY FEATURES**

- For use in environments where radiation is present
- Expanded polystyrene core with 98% pure lead sheet available in three different thicknesses:
  - 1/32”
  - 1/16”
  - 1/8” (16-, 14- and 12-gauge door only)
- Door thickness from 1 3/4” up to 2 1/4”
- Edge seam options:
  - Lock seam (PA) 18- or 16-gauge
  - Lock seam and putty filled (PAF) 18- or 16-gauge
  - Continuously welded seamless edge (CW) 18-, 16-, 14- and 12-gauge

**Complies with:**

- ASTM B29: Standard Specification for Refined Lead
- Federal Specification QQ-L-201 “C” Category
- CSA HP2 type 2 lead

**STANDARD FEATURES**

- A40 galvannealed material
- 16-gauge flush and welded top and bottom cap

**OPTIONS**

- A60 or G90 material
- Primer for A40 and A60
- Factory prefinishing **not available**

**HARDWARE REINFORCEMENTS**

- Hanging: We strongly recommend the use of pivot set.
- Closer: 16-gauge (optional: 14-gauge, 12-gauge)
- Locks: 12-gauge

**NOTE:** De la Fontaine will not determine the necessary lead thickness.
DOOR OPTIONS:

DOOR SEAMS

Seamless, lock seam on edge construction.
- The seam is filled with industrial adhesive then putty-filled and ground smooth (PAF).
- Achieves 1,000,000 cycles as per ANSI A250.4.

Standard, lock seam on edge construction.
- Reinforced welded corners (PA).
- Achieves 1,000,000 cycles as per ANSI A250.4.

Seamless, continuously welded, internally reinforced stiles. 18-gauge (0.044”/1.1 mm) or 16-gauge (0.056”/1.4 mm).
- Fully welded centered seam, (CW).
- Achieves 6,000,000 cycles as per ANSI A250.4.

DOOR OPTIONS:

DOOR EDGES

Square edge door, 90-degree angle to the door face.
- Standard on strike edge of inactive door and hinge edge of door with continuous hinge.

Beveled edge door, 87-degree angle to the door face (1/8” (3.2 mm) in 2” (50.8 mm)).
- Standard on active door.

Segmented radius edge for double acting door.
- The seam is filled with industrial adhesive then putty-filled and ground smooth.
- Available in PA series only.
DOOR OPTIONS: STANDARD DOOR HARDWARE REINFORCEMENTS

Door options:

- Standard, inverted steel channels, projection welded. 16-gauge (0.056”/1.4 mm) or 14-gauge (0.071”/1.8 mm).

- Flush steel channels, projection welded, 16-gauge (0.056”/1.4 mm) or 14-gauge (0.071”/1.8 mm), not sealed.

- Flush and sealed steel channels, projection welded, 16-gauge (0.056”/1.4 mm) or 14-gauge (0.071”/1.8 mm).

- Fully continuously welded centered seam. Flush internal steel channels, 16-gauge (0.056”/1.4 mm) or 14-gauge (0.071”/1.8 mm).

- PVC top cap (snap-in).

- High frequency hinge reinforcement, 10-gauge (0.129”/3.3 mm) or 7-gauge (0.167”/4.2 mm) flat hinge reinforcement.

- Cylindrical lock reinforcement, 12-gauge (0.105”/2.7 mm) lock front, 18-gauge (0.044”/1.1 mm) spacer.

- Mortise lock reinforcement, 12-gauge (0.105”/2.7 mm) lock front, 16-gauge (0.056”/1.4 mm) box.

- Flush bolt reinforcement, 12-gauge (0.105”/2.7 mm) tabs.

- Standard ANSI 4 7/8” (123.8 mm) strike reinforcement, 16-gauge (0.056”/1.4 mm).

**NOTE:** HARDWARE REINFORCEMENTS ARE PROJECTION WELDED. PLEASE CONTACT YOUR LOCAL REPRESENTATIVE FOR ADDITIONAL DETAILS ON HARDWARE REINFORCEMENT.
DOOR OPTIONS: VISION KITS AND LOUVERS

Standard two-part sandwich-type vision kit, welded corner sections, 18-gauge (0.044”/1.1 mm). Available for 1/4” (6.3 mm) to 1” (25.4 mm) thick glass (N series).

Two-part sandwich-type vision kit with muntins, 18-gauge (0.044”/1.1 mm). Only available non-rated and for 1/4” (6.3 mm) and 1/2” (12.7 mm) thick glass.

Standard two-part sandwich-type louver, inverted “Y” blades, welded corners, 50% free-flow area, 18-gauge (0.044”/1.1 mm). Available in CRS, A40, A60 material and fire rated.

DLF flush vision kit, 16-gauge (0.056”/1.4 mm). Spot welded, available for 1/4” (6.3 mm) to 1” (25.4 mm) thick glass (P series).

DLF flush seamless vision kit, 16-gauge (0.056”/1.4 mm). Spot welded, available for 1/4” (6.3 mm) to 1” (25.4 mm) thick glass (O series).

TYPICAL DOOR ELEVATIONS

Multiple sizes and combinations available with different door series or door models. Please consult factory for additional information.

We recommend keeping 7” (178 mm) stiles and 8” (203 mm) top rail to avoid any hardware conflicts.

NL: Narrow lite
HG: Half glass
2G: Double half glass
FG: Full glass
For classic elegance and an economical solution, choose from our pre-embossed panel doors.

**AVAILABLE IN THE FOLLOWING DOOR SERIES:**
- Honeycomb
- Polystyrene

**KEY FEATURES**
- 18-gauge
- A40 galvanneal steel only
- Fire ratings available up to 3 hours. Please consult our chart for limitations.
- Exceeds the American National Standards Institute ANSI A250.4 standard
- Factory powder coat prefinishing available

Please consult our Technical Data Book for panel size limitations.
CED - DOOR MODELS
CUSTOM EMBOSSED

This line brings together the strength of steel with the flexibility of the latest technology in order to personalize the design of doors. For a contemporary look, draw the lines, curves and panels yourself to enrich the perspectives of your project with a unique touch.

AVAILABLE IN ALL OF OUR DOOR SERIES

- 18- or 16-gauge
- A40, A60 galvannealed steel or 304 and 316 stainless steel no. 4 satin finish
- Fire ratings available up to 3 hours. Please consult our chart for limitations.
- Exceeds the American National Standards Institute ANSI A250.4 standard
- Factory powder coat prefinishing available for galvannealed steel only

EMBOSSING GROOVE STYLES AVAILABLE

V MODEL  U MODEL  INVERTED V MODEL

Most popular models

CED  CED105  CED106  CED109  CED111  2PNL WITH CED
Decide on the number of panels to embed as well as their size, add a wood or aluminum molding to accent the relief and choose the prefinishing color. You will have a unique door—a steel door which respects the most demanding of performance standards and is resistant to fire, and a designer door which will harmoniously integrate into your project.

**AVAILABLE IN THE FOLLOWING DOOR SERIES:**
- Honeycomb
- Polystyrene

**KEY FEATURES**
- 18-, 16- or 14-gauge
- A40, A60 galvanized steel
- Fire ratings available up to 3 hours.
  Please consult our chart for limitations.
- Exceeds the American National Standards Institute ANSI A250.4 standard
- Factory powder coat prefinishing available for galvanized steel only

**PANEL DESIGNS AVAILABLE**

RECESSED PANEL

RECESSED PANEL WITH QUARTER ROUND MOLDING

RECESSED PANEL WITH PROFILE MOLDING

Most popular models

RDP 101  RDP 102  RDP 103

RDP 104  RDP 105
INL - DOOR MODELS
INLAYS

The fruit of many years of research and development, our insertion procedure reinvents inlay by combining steel with other materials applied to the surface: prefinished steel, wood, stainless steel, laminated plastic or brass. It offers exceptional flexibility in terms of design.

AVAILABLE IN ALL OF OUR DOOR SERIES

- 18- or 16-gauge
- A40, A60 galvannealed steel
- Personalized and exclusive design
- Possible combinations of different materials on the surface of the door
- Fire ratings available up to 3 hours. Please consult our chart for limitations.
- Exceeds the American National Standards Institute ANSI A250.4 standard
- Factory powder coat prefinishing available for galvannealed steel only

Inlay:
Prefinished steel, stainless steel, wood, brass, plastic laminate, bronze, metal laminate

Most popular models

INL 101  INL 102  INL 103  INL 104  INL 105  INL 111
**SR SERIES**
**STANDARD FRAME**

Designed to be installed in masonry wall conditions.

- Face welded or continuously welded frame assembly.
- Solid three-sided frame application.
- Welded floor anchor and mortar guard on hinge reinforcement are standard on welded frames.
- Available knock-down (KD), but compression anchor must be specified by customer if needed.
- Available for drywall, but we recommend using the DR series.

**FIRE RATINGS**
- Up to 3-hour (ITS/WHI) fire label

**STANDARD FEATURES**
- A40 galvannealed steel
- 16-gauge steel

**OPTIONS**
- A60 and G90 material
- 18-, 16- and 12-gauge
- Primer for A40 and A60

**Standard Frame Anchors**
DE LA Fontaine standard anchors are designed for use in almost any job conditions. Custom anchors available.

- "T" masonry anchor (TMA) with floor anchor, shipped loose.
- Wire masonry anchor (WMA), shipped loose.
- Existing wall anchor (EWA) with reinforcement, welded.
- Steel stud "Z" bracket anchor (ZBA), welded.
- Wood stud anchor (DCA), welded.
- Multi-purpose wood or steel stud anchor (SWS), 2-piece, shipped loose.

**Standard Frame Hardware Reinforcements**

ANSI 4-7/8" strike reinforcement (16-gauge).

Standard (0.134") or heavyweight (0.180") hinge reinforcement (10-gauge).

Regular arm closer reinforcement (12-gauge).

Parallel arm closer reinforcement (12-gauge).
DW SERIES
DRYWALL FRAME

Designed to be installed after the wall is up (slip-on 3-piece frame).

- Three-sided frame for drywall applications.
- KD assembly.
- Compression anchor (leveling screw) on each jamb for plumbness and level.
- Punched and dimpled on frame face for no.6 drywall screw (standard).
- Drywall strap anchors (optional).

FIRE RATINGS

- Up to 3-hour (ITS/WHI) fire label

STANDARD FEATURES

- A40 galvannealed steel
- 16-gauge steel

OPTIONS

- A60 and G90 material
- 18- and 14-gauge
- Primer for A40 and A60

DR SERIES
PRE-DRYWALL FRAME

Designed to be installed into metal or wood stud framing before drywall board is installed.

- Face welded or continuously welded drywall three-sided frame.
- 18-gauge welded-in steel stud anchors (standard).
- 16-gauge welded floor anchor (standard).
- Wood stud anchor (optional).
- Multi-purpose anchor (optional), shipped loose.

FIRE RATINGS

- Up to 3-hour (ITS/WHI) fire label

STANDARD FEATURES

- A40 galvannealed steel
- 16-gauge steel

OPTIONS

- A60 and G90 material
- 18- and 14-gauge
- Primer for A40 and A60
LR SERIES
LESS RETURN FRAME

Designed for wood trim nailed on the perimeter (wood trim prep).

- Ideal for historical renovations.
- Warm-feeling, true commercial frame.
- High-end and affordable three-sided frame for drywall applications.
- The ideal application is KD.
- Available in face welded or split frame configuration.
- Wall dimension is critical when ordering this frame.

FIRE RATINGS

- Up to 1-1/2-hour (ITS/WHI) fire label with any type of wood trim installed by contractor

STANDARD FEATURES

- A40 galvannealed steel
- 16-gauge steel

OPTIONS

- A60 galvannealed steel
- 18- and 14-gauge steel
- Primer for A40 and A60

Wood trim prep.
SF SERIES
SPLIT FRAME

Designed to be installed after the wall is up. With its unique anchoring system, this frame will save time and coordination on the jobsite in addition to offering a solid and strong face welded assembly.

- Solid, strong and secure opening.
- Face-welded commercial 2-piece welded frame, installed after walls are erected.
- State-of-the-art anchoring system for steel or wood stud walls without face screws.
- Powder-coated pre-finishing from the factory recommended.
- Available for three-sided, transom, borrowed lite and sidelite frame configuration.
- Reduces coordination and time spent on the jobsite.

FIRE RATINGS
- Up to 1-1/2-hour (ITS/WHI) fire label

STANDARD FEATURES
- A40 galvannealed steel
- 16-gauge steel

OPTIONS
- A60 galvannealed steel
- 18- and 14-gauge steel
- Primer for A40 and A60

Please consult our website for installation procedure and video.

See page 31 for more details and features.
**RB SERIES**
**ROUGH BUCK FRAME**

Designed for retrofit openings, the rough buck frame will allow for adjustment to compensate for out-of-square masonry openings.

### KEY FEATURES
- A unique solution for retrofit applications.
- Solid anchorage of the frame, does not require grouting.
- Less-return finish frame.
- U-channel 12-gauge sub frame butted to the masonry wall.
- Pre-drilled holes for 1/4” (6.4 mm) Tapcon® screws.
- 14-gauge adjustable floor anchor.
- Compression anchors at critical locations for accurate adjustment and tight-fitting miters.

### FIRE RATINGS
- Up to 1-1/2-hour (ITS/WHI) fire label

### STANDARD FEATURES
- A40 galvannealed steel

### OPTIONS
- A60 galvannealed steel
- 16-, 14- or 12- gauge steel
- Primer for A40 and A60
FRAME OPTIONS

DOUBLE EGRESS PROFILE

Specialized frame designed for door leaves operating in opposite directions.

- Double egress frame is available in SR, DR and DW series.
- 1-3/8” x 2-5/8” or 2” x 3-1/4” frame face standard profiles.
- Compatible with all of our standard anchors.
- Must be welded for fire rating.

Special profile available for swing clear hinges or pocket pivot hardware.

THERMAL BREAK PROFILE

Specialized frame designed to significantly reduce condensation or frost on the interior of the frame in cold weather conditions.

- PVC thermal break
- A60 steel recommended
- 16- or 14-gauge steel
- Not available in KD frame assembly
- Fire rating not available

TERMINATED (SANITARY) STOP

Specialized frame option designed to prevent the build-up of germs and bacteria at floor level. It allows for easier floor cleaning in health care settings.

- Available in SR and DR series
- Accepts all of our standard anchors
- 16- or 14-gauge steel
- Variable height available for sanitary stops. Must not exceed 6” in fire-rated openings.
- 45- or 90-degree stop

OTHER PROFILES AVAILABLE

- Single rabbet profile
- Centered glass profile
- Caulking groove profile
- Radius profile
- Sloped sill profile
- Double stepped ogee profile
- Shadow line profile

NOTE: MOST OF THESE PROFILES CAN BE FIRE-RATED UP TO 90 MINUTES (POSITIVE PRESSURE UL 10C).
DE LA FONTAINE has developed a true expertise in the assembly of custom frame elevations, including special profiles, arched frames, curved frames, segmented frames or any other special requirements your project may need.

DE LA FONTAINE is your partner of choice when it comes to custom frame elevation.

**MATERIAL**
- A40, A60, G90, stainless steel 304 and 316 no.4 (satin finish)
- 16-, 14- and 12-gauge

**FRAME SERIES**
Available in SR, DW, DR and split frame (SF) series
Elevations - Borrowed Lites

**SEGMENTED RADIUS** BORROWED LITE

*NOTE:* FRAMES WITH CORNER POST OR SEGMENTED RADIUS ARE ELIGIBLE FOR FIRE RATING. PLEASE CONSULT OUR CHART FOR LIMITATIONS.

Elevations - Removable Mullion Details

**Head/top** of mullion assembly detail. 90-minute fire-rated (positive pressure; UL 10C).

**Bottom** of mullion/floor-assembly detail. 90-minute fire-rated (positive pressure; UL 10C).

Elevations - Arched Frame

Fixed mullion floor anchor.
DE LA Fontaine’s detention products deliver security, performance and durability. They are ideal for a wide range of applications in correctional centers or other institutions that require a high degree of security.

**DOORS**
- Galvanized steel, A40 or A60
- Surface thickness of 16-gauge (1.6 mm) to 12-gauge (2.5 mm)
- Doors of 1-3/4” to 2-1/4”
- 12-gauge reinforced perimeter
  (14-gauge and 10-gauge also available)
- Welded edges, ground smooth
- Vision kit with welded or screwed glazing bead.
  Factory installed glass available.
- Integrated acoustic grilles, easy to maintain*
- Heavy duty particle wood or steel stiffened core
- Doors available with powder coating paint,
  applied in-factory
- Hardware installed in-factory according
to project specifications

* The assembly recommended by DE LA Fontaine allows for the easy removal and reinstallation of vision kits and the acoustic grille.

**FRAMES AND SIDELITES**
- Galvanized steel, A40 or A60
- Material available in thicknesses from 14-gauge
  (2 mm) to 3-gauge (6 mm)
- Continuously welded for a durable, heavy duty assembly
- Multiple profiles available
- Vision kits welded or screwed in-factory, with anti-tamper hardware
- Frames and sidelites available with factory-applied powder coating paint

**DOOR MODELS**
DE LA Fontaine has combined its expertise, experience and innovation to develop an exclusive welded split frame available in a variety of configurations. Its design features—including a state-of-the-art anchoring system and a 2-piece welded frame—yield an accurate fit with a range of wall conditions and constructions. The result: a solid, strong and secure opening.

**BENEFITS**

**Distributors:**
- The frame, door and hardware can be assembled before shipping to the jobsite to ensure functionality of the opening.
- Fewer trips to the jobsite.
- Adjustability suitable for retrofit application.

**End Users:**
- Durable opening with less maintenance.
- Ease of compliance with the annual fire door inspection mandated by NFPA 80, 2010 edition.

**Architects:**
- Factory powder coated prefinished products.
- No VOCs.

**Contractors:**
- Installation can start once the walls have been painted.
- Factory prefinishing considerably reduces coordination and time spent on the jobsite.
- One sole responsibility for the complete opening.

**Prefinish**
- High quality and durable powder coating that exceeds ANSI A250.3.
- Standard and custom colors available.

**Fire Rating**
- 90-minute (positive pressure; UL10C). Maximum overall dimensions: 8’2”W x 10’3/4”H (2489 mm x 3067 mm).
- 60-minute (positive pressure; UL10C). Maximum overall dimensions: 10’0”W x 11’5”H (3048 mm x 3480 mm)
- Pair of doors and field splice approved.

**Performance**
Exceeds American National Standards Institute ANSI A250.4, achieves 3,000,000 cycles.
Experts agree that as design and development continue to trend towards energy-efficient performance, operating costs and carbon footprints will decrease. The outer envelope is the key to an eco-friendly building, and by their nature, windows and doors represent an important part of the equation.

The insulation level of an opening can be expressed relative to 2 different standards:


DE LA FONTAINE offers insulating doors that, when combined with a thermal break frame, contribute to a considerable reduction in a building’s energy costs.

The thermal break frame is a special profile with a polyvinyl chloride (PVC) seal that inhibits the transfer of heat/cold from the exposed to the non-exposed side of the frame. This seal is also installed in the mullion of elevations and borrowed lites. Mullions can be filled with insulating mineral wool.

Please refer to our individual Door Series or to the technical data sheet on our website for complete information on testing procedures and energy values for DE LA FONTAINE products.

Sound-deadening doors and frames are necessary in many commercial buildings, such as auditoriums, offices, hospitals, schools, and multi-housing buildings. They limit the intrusion of noise into a room and ensure both quiet and privacy.

DE LA FONTAINE offers a sound-deadening opening with a maximum STC rating of 47, in compliance with ASTM E90 and ASTM E413.

DE LA FONTAINE provides the following components:

- 14-gauge, SR-CO Frame
- 16-gauge door
- Gasketing installed for STC47 only

DE LA FONTAINE offers insulating doors that, when combined with a thermal break frame, contribute to a considerable reduction in a building’s energy costs.

The thermal break frame is a special profile with a polyvinyl chloride (PVC) seal that inhibits the transfer of heat/cold from the exposed to the non-exposed side of the frame. This seal is also installed in the mullion of elevations and borrowed lites. Mullions can be filled with insulating mineral wool.

Please refer to our individual Door Series or to the technical data sheet on our website for complete information on testing procedures and energy values for DE LA FONTAINE products.

Summary of DE LA FONTAINE STC Product Offering

<table>
<thead>
<tr>
<th>Door Series</th>
<th>Non-operable (panel) STC rating</th>
<th>Operable STC rating</th>
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</thead>
<tbody>
<tr>
<td>STC Door Series</td>
<td>52</td>
<td>44 to 47</td>
</tr>
<tr>
<td>ST Door Series (Mineral Wool)</td>
<td>39</td>
<td>31 to 38*</td>
</tr>
<tr>
<td>HC Door Series</td>
<td>37</td>
<td>30 to 36*</td>
</tr>
</tbody>
</table>

*Operable STC rating may vary depending on the quality of hardware and gasketing installation.

See our technical data sheet for more information.
DE LA FONTAINE also offers stainless steel solutions for damp areas, areas where high hygiene standards are essential, or areas where corrosive products are in use. Stainless steel is also ideal for high-end projects due to its esthetic appeal.

**STAINLESS STEEL PRODUCT KEY FEATURES**
- Compliant with ASTM A240/A240M
- 304 or 316, no.4 (satin finish)
- All Door Series available except TR Series
- Continuously welded seamless edge available
- All frame series available
- Sanitary welded corner for clean applications available
- Fire-rated up to 90 min (1-1/2 hours)
- All hardware and internal reinforcements made of stainless steel

**WINDSTORM-RESISTANT OPENINGS SOLUTIONS**

Storms and hurricanes are frequent in certain coastal areas, and construction standards demand high-performance products to ensure the safety of building occupants. DE LA FONTAINE offers a durable door that meets the industry’s stringent standards, while the distinction of customized embossing allows you to combine performance and design.

**WINDSTORM STANDARDS COMPLIANCE**
- ANSI A250.13, ASTM E330-02, ASTM E1886-05, ASTM E1996-09;
- Outswinging doors; Pressure: 70 psf; Impact: 350lb-ft; Class 1 door.

**SPECIFICATIONS**
- Single door: up to 3’0” x 7’0” (914 mm x 2133 mm)
- Pair of doors: up to 6’0” x 7’0” (1829 mm x 2133 mm)
- Minimum 16-gauge ST Series (Steel Stiffened Core) with polystyrene and continuously welded seamless edge
- Minimum 16-gauge SR Series (Standard Frame) welded and existing wall anchors with tube
- Fire-rated up to 90 min (1-1/2 hours)

Please consult your sales representative or our customer service team for more information on limitations and fire-rated stainless steel products.
A FEW OF OUR MANY PROJECTS...

APARTMENTS
The Falls at Flint Hill (VA, USA)
The Avalon (NY, USA)

COMMERCIAL AND OFFICE BUILDINGS
The Prudential Center (MA, USA)
The National Research Council (ON, Canada)
The Loudoun Digital Realty (VA, USA)

EDUCATION AND CULTURE
Harvard University (MA, USA)
Hudson Hall, Plattsburg State University of New York (NY, USA)
The Boston Museum of Fine Arts (MA, USA)
The University of Pennsylvania (PA, USA)
The John Adams Building and the Library of Congress (DC, USA)
The Academy for Performing Arts (Hong Kong, China)
Thompson Estates Elementary School (MD, USA)

GOVERNMENT AND SECURITY
The Sorel Prison (QC, Canada)
The Marcy Correctional Center (NY, USA)
The United States Embassy (Bangkok, Thailand)
The Police Headquarters (Hong Kong, China)
The United States Consulate (Naha, Japan)
The Federal Reserve Board (DC, USA)
The Illinois State Building (IL, USA)
The Renovated Sections of the Pentagon (DC, USA)
The Columbia County Courthouse (NY, USA)
The Commonwealth of Massachusetts Military Division and Joint Force Headquarters of the Massachusetts National Guard (MA, USA)

HEALTH SECTOR
Glendale Nursing Home (NY, USA)
The Brigham and Women’s Hospital, Carl J. and Ruth Shapiro Cardiovascular Center (MA, USA)
The Shriners Hospitals for Children (QC, Canada)
The Massachusetts General Hospital (MA, USA)
The Hospital Maternidad Ciudad de la Salud (Dominican Republic)
The Christiana Care Wilmington Hospital (DE, USA)
You know that DE LA FONTAINE is not just a manufacturer. We are visionaries, inventors and designers. We do not produce doors on an assembly line, but rather create hospital doors that comfort and school doors that protect; office doors that work hard and prison doors that isolate; hotel doors that welcome and residence doors that open up onto life, peace and harmony.

And it is with this approach, one which embraces the world of our clients, that we have gained the confidence of innovative architects, demanding businesses and prestigious institutions all over the world.

**HOTELS AND DORMITORIES**
The Southbridge Hotel & Conference Center (MA, USA)  
The Antaris Suite Hotel (Mexico)  
The Sandy Lane (Barbados)  
The Merrimack College Student Residence (MA, USA)  
The DoubleTree Hotel (PA, USA)

**INDUSTRIAL AND PHARMACEUTICAL**
The Niagara Power (ON, Canada)  
Bayer (CT, USA)  
Merck & Co. (PA, USA)  
Cambridge Isotope Laboratories (MA, USA)  
Pfizer (MA, USA)

**TRANSPORTATION**
The Montréal Metro Stations (QC, Canada)  
The Pierre Elliott Trudeau Airport (QC, Canada)

**SPORT INFRASTRUCTURE**
The Monterrey Stadium (Mexico)
QUALITY PRODUCTS, RELIABLE SERVICE, AND 2-WEEK DELIVERY*:
THIS IS THE COMBINAISON THAT MAKES US A TRUE PARTNER.

*Larger or more complex projects may require additional time.

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