

STEEL DOORS & FRAMES

ENJOY THE FREEDOM TO DESIGN ANYTHING



100 Millennium Blvd. Moncton, NB, Canada

www.apexindustries.com



Behrakis Health Sciences Center, Northeastern University » Boston, Massachusetts

OUR COMMITMENT

WE PROVIDE TOTAL SATISFACTION FROM BEGINNING TO END

Customer satisfaction comes naturally to us. Our team of dedicated project managers and professional staff work alongside customers to meet their needs and to remove the headache that can come with dealing with doors and frames.

Whatever your schedule, whatever your particular need, our people will make it happen.

OUR PRODUCTS

ENJOY THE FREEDOM TO DESIGN ANYTHING

As a manufacturer with decades of experience, we've seen and built a lot of different types of doors, frames and windows. We manufacture and stock a complete line of standard designs, but what we truly excel in is our ability to make any architectural plan a reality: any size, any space, and any purpose. We make it happen with ease.

- Custom doors and frames
- Detention doors and frames
- Stainless steel doors and frames
- High security doors and frames
- Fire-rated doors and frames

COMMERCIAL

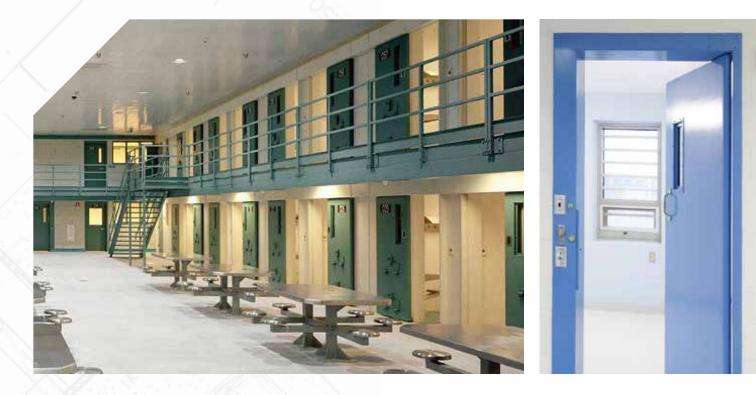
Our custom capabilities are second-to-none, with custom profiles and sizes available for any project.

Our products are manufactured from steel ranging from 10-gauge to 20-gauge, and include products from true radius frames, to arched frames and doors, and everything in-between.



DETENTION

Apex Industries is a leading manufacturer of custom detention products and can customize to any project specification.



STAINLESS

Unlike many manufacturers, we are able to work with stainless steel up to 10-gauge, and can produce doors and openings of any size, design or specification.





APEXINDUSTRIES.COM

OUR PROJECTS

WE HAVE A DEEP RANGE OF EXPERIENCE

Our depth of experience includes a wide-range of projects. Our portfolio of work includes schools, hospitals, office buildings, care facilities, industrial, retail, postsecondary, pharmaceutical, commercial applications and others. Additionally, our proximity to highway, rail, and ports allows us to ship to destinations all around the globe. Some of our high-quality projects include:

- Harvard Medical School
- University of Delaware
- Massachusetts
 Correctional Institution
- Lexington Policy Facility
- World Trade Center West

- East Boston Health Center
- Massachusetts General Hospital
- Holy Cross College Hall
- Tufts University Dental School
- MIT Graduate Housing

- Sheraton Boston Phase 1 & 2
- Boston College
 Administration Building
- Sun Microsystems, Boston
- Olin College
- Berklee School of Music



Levi Heywood Memorial Library » Gardner, Massachusetts





Harrisburg University » Harrisburg, PA

STEEL DOORS & FRAMES

- Fordham University
- West Point Military Academy
- Portsmouth Regional Hospital
- Amgen, Boston
- Teradyne, Boston
- AstraZeneca Pharmaceuticals, Boston
- Millennium Village Project, Qatar
- Grantley Adams International Airport, Barbados
- Berkeley Institute Senior School, Bermuda
- Dubai International Airport, U.A.E
- Canadian High Commission, London, England
- Canadian Embassy, Beijing, China







Shrewsbury High School » Shrewsbury, Massachusetts

APEXINDUSTRIES.COM

APEX INDUSTRIES

WE ARE A DIVERSE COMPANY BUILT ON QUALITY AND SERVICE

Since 1966, Apex has been manufacturing doors and frames for world-class clients all over the globe. Our success stems from our commitment to product quality, uncompromising customer service, category-leading innovation and by surrounding ourselves with the best people in the industry.

Our customer portfolio in North America and beyond is a veritable "who's who" of companies. A sample of the organizations we've worked with include:

CONTRACTORS

- Turner Construction
- Suffolk Construction
- Fluor Corp.
- PCL Construction
- Skanska USA
- Tutor Perini
- Ellis Don
- Morganti/American International
- Contractors
- Clark Builders

ARCHITECTS

- Jacobs
- Elkus Manfredi Architects
- CBT Architects
- Payette
- Kasian Architecture
- Goody Clancy
- Skidmore, Owings & Merrill
- Robert A. M. Stern Architects











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APEX INDUSTRIES INC.

Corporate Head Office 100 Millennium Blvd Moncton, NB, Canada Toll Free: 1 800 268-3331 Office: 1 506 857-1600

www.apexindustries.com

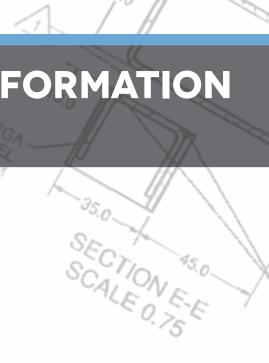
TECHNICAL INFORMATION

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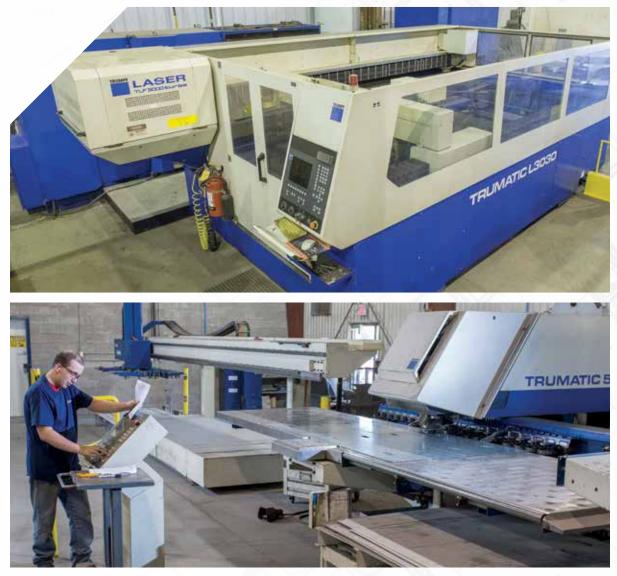
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DETAIL C SCALE 0.75

26.204



Our in-house machinery allows us to manufacture a wide-range of custom sizes and gauges of steel.

AFFILIATIONS & ACCREDITATIONS



Intertel

- Manufacturers (NAAMM)
 - Hollow Metal Manufacturers Association (HMMA)

National Association of Architectural Metal

Detention Equipment Manufacturers
 Association (DEMA)

Door and Hardware Institute (DHI)

- American Correctional Association (ACA)
- ITS Warnock Hersey
- Canadian Steel Door Manufacturers Association
 (CSDMA)

STEEL SPECIFICATIONS

ASTM A653/A653M-05a, specification for steel sheet, zinc coated (galvanized) or zinc-iron alloy coated (galvannealed) by the hot-dip process.

- A40 (ZF120)
- A60 (ZF180)
- G90 (ZF275)

FIRE RATINGS -INTERTEK WARNOCK HERSEY



Our galvannealed steel can be easily painted, however, we do offer fully primed steel doors and frames.

ASTM A240/A240M Standard specification for chromium and chromium-nickel stainless steel plate, sheet, and strip for pressure vessels as well as for general applications.

- Type 304 #4 Finish
- Type 316 #4 Finish

Our products comply with the following:

- NFPA 80 National Fire Protection Association standard for fire doors and other opening protectives;
- UL 10 C Underwriters Laboratory standard for positive pressure fire tests of door assemblies;
- UBC-7-2 Uniform Building Code Standard for positive pressure fire tested door assemblies; and,
- CAN/ULC S104-10 Standards Council of Canada standard method for fire tests of door assemblies

SUSTAINABILITY

Apex Industries Inc. is committed to environmental responsibility and good stewardship of the earth's resources. Apex has developed a comprehensive recycling program sending all scrap metal, paint and cooling fluids to local recyclers. We also recycle wooden transport pallets and use low VOC paints and primers. Total recycled content of galvanized steel used in our doors and frames is 89.7% recycled steel scrap, with 33.3% post-industrial scrap and 50.6% post-consumer scrap. Our steel complies with the recycled content (credit 4) under the LEED rating system and can be credited with the maximum number of points for the materials credit aspect of the rating system.

HOLLOW METAL DOORS 10 SERIES | LAMINATED CORE

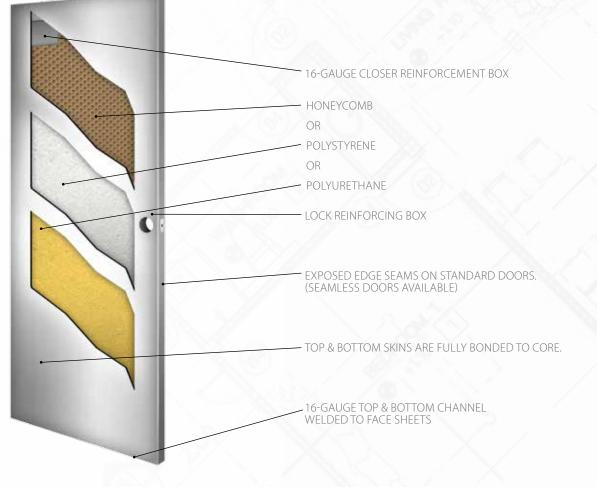
- Construction meets the requirements of ANSI A250.8 2003, ANSI / NAAMM / HMMA 861
- Door thickness 1 ¾" (45mm)
- Full height, adhesive filled, mechanically interlocking edge construction
- Beveled hinge and lock edges 1/8" in 2"
- High frequency 10-gauge hinge
 reinforcements at all hinge locations
- Welded 16-gauge top and bottom inverted channels
- Fire rated up to 3 hours

Steel Options

	A-40 (ZF-120) Galvanneal Steel
	A-60 (ZF-180) Galvanneal Steel
	G-90 (ZF-275) Bright Galvanized Steel
	Stainless steel 304, 316, #4 finish

Gauge Options	Core Options
20-Gauge	Voids filled with:
18-Gauge	Honeycomb Polystyrene
16-Gauge	Polyurethane
14-Gauge	

Edge Options
Exposed lock seam
Seamless – Tack welded filled seam ground smooth
Seamless – Continuously welded edge seam



HOLLOW METAL DOORS 20 SERIES | STEEL – STIFFENED

- Steel stiffeners offer increased durability and security
- Steel stiffeners can be laminated or welded to face sheets
- Construction meets the requirements of ANSI A250-8 2003, NAAMM / HMMA 861, 867
- Door thickness 1 ³/₄" (45mm)
- Full height, adhesive filled mechanically interlocking edge construction
- Beveled hinge and lock edges 1/8" in 2"
- High frequency 10-gauge hinge reinforcements at all hinge locations
- Welded 16-gauge top and bottom inverted channel
- Fire rated up to 3 hours

Steel Options

A-40 (ZF-120) Galvanneal Steel
A-60 (ZF-180) Galvanneal Steel
G-90 (ZF-275) Bright Galvanized Steel
Stainless steel 304, 316, #4 finish

Gauge Options	Core Options
20-Gauge	Polystyrene
18-Gauge	Honeycomb Polyurethane
16-Gauge	Mineral wool
14-Gauge	Rigid fiberglass

Edge Options

Exposed lock seam Seamless – Tack welded filled seam ground smooth Seamless – Continuously welded edge seam

IG-GAUGE CLOSER REINFORCEMENT BOX POLYSTYRENE, HONEYCOMB, POLYURETHANE, MINERAL WOOL, OR RIGID FIBERGLASS 20-GAUGE STIFFENERS DOCK REINFORCING BOX EXPOSED EDGE SEAMS ON STANDARD DOORS. (SEAMLESS DOORS AWAILABLE) TOP & BOTTOM SKINS ARE FULLY BONDED TO CORE. 16-GAUGE TOP & BOTTOM CHANNEL WELDED TO FACE SHEETS

HOLLOW METAL DOORS 30 SERIES | EMBOSSED

- Construction meets the requirements of ANSI A250.8 2003, ANSI / NAAMM / HMMA 861
- Door thickness 1 ³/₄" (45mm)
- Full height, adhesive filled mechanically interlocking edge construction
- Beveled hinge and lock edges 1/8" in 2"
- High frequency 10-gauge hinge reinforcements at all hinge locations
- Welded 16-gauge top and bottom inverted channels
- Fire rated up to 3 hours

Steel Options

A-40 (ZF-120) Galvanneal Steel

Gauge Options	Core Options	
18-Gauge	Honeycomb Polystyrene	Ż

Edge Options
Exposed lock seam
Seamless – Tack welded filled seam ground smooth
Seamless – Continuously welded edge seam

Ib-GAUGE TOP & BOTTOM CHANNEL WELDED TO FACE SHEETS 16-GAUGE CLOSER REINFORCEMENT BOX HONEYCOMB OR POLYSTYRENE LOCK REINFORCING BOX EXPOSED EDGE SEAMS ON STANDARD DOORS. (SEAMLESS DOORS AVAILABLE) TOP & BOTTOM SKINS ARE FULLY BONDED TO CORE

HOLLOW METAL DOORS 40 SERIES | TEMPERATURE RISE CORE

Temperature rise doors limit the transmission of heat for a period of time. These doors are built with a core that is specifically designed to restrict the transmission of heat.

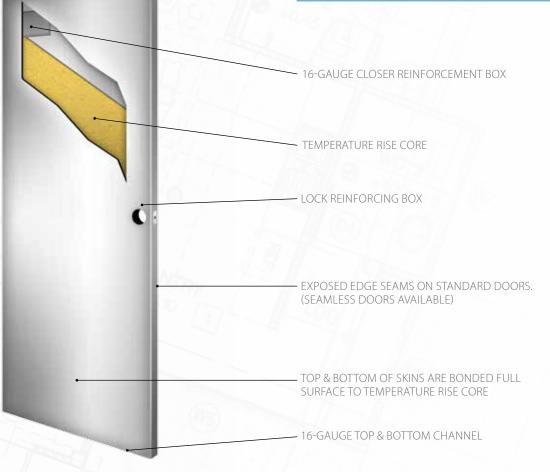
- Construction meets the requirements of ANSI A250-8 2003, NAAMM / HMMA 861, 867
- Door thickness 1 ³/₄ " (45mm)
- Full height adhesive filled, mechanically interlocking edge construction
- Beveled hinge and lock edges 1/8" in 2"
- High frequency 10-gauge hinge reinforcements at all hinge locations
- Welded 16-gauge top and bottom inverted channel
- Fire rated up to 3 hours

Steel Options

A-40 (ZF-120) Galvanneal Steel A-60 (ZF-180) Galvanneal Steel G-90 (ZF-275) Bright Galvanized Steel

Gauge Options	Core Options
20-Gauge	Temperature rise rated
18-Gauge	(TRR) core for ratings of 250 F (120 C), 450 F
16-Gauge	(250 C) and 650 F (340
14-Gauge	C) at 30 or 60 minutes

Edg	e Options
Expo	osed lock seam
0.001.	mless – Tack welded filled seam und smooth
Sear	mless – Continuously welded edge seam



HOLLOW METAL DOORS 50 SERIES | DETENTION DOORS AND FRAMES

Detention security hollow metal doors are the standard in prisons, jails, courthouses, police stations, and detention centers throughout the world.

Construction meets and exceeds industry performance standards and are third-party (ITS Warnock Hersey) tested to:

- ANSI / NAAMM / HMMA-863, ASTM-F1450 criteria
- 2" (50mm) door thickness standard
- Static load test
- Rack test
- Door impact test
- Glazing stop impact test
- Fire rated up to 3 hours



Steel Options

A-40 (ZF-120) Galvanneal Steel	\geq
A-60 (ZF-180) Galvanneal Steel G-90 (ZF-275) Bright Galvanized Steel	

	Gauge Options	Core Options
	14-Gauge	Welded stiffeners with fiberboard core
	12-Gauge	
	10-Gauge	12-gauge reinforced perimeter channels

Edge Options

Continuously welded edges

Continuously welded flush top and bottom end channels

TOP & BOTTOM CHANNELS CONTINUOUSLY WELDED, FLUSH WITH EDGE OF DOOR.

OPTIONAL LITE CUTOUT

CONTINUOUSLY-WELDED EDGES

OPTIONAL PASS-THROUGH

16-GAUGE. STEEL-STIFFENERS WELDED TO BOTH SKINS

HOLLOW METAL DOORS 60 SERIES: BULLET RESISTANT CORES LEVELS 1–8

- Full height, adhesive filled, mechanically interlocking edge construction
- Door thickness available in 1 ³/₄ (45mm) and above
- Construction meets the requirements
 of ANSI A250.8 2003, ANSI/NAAMM/HMMA 861
- Certified & tested by H.P. White Laboratory Inc. in accordance with ANSI/UL 752 Bullet Resistant Standards
- Optional fire ratings available

Steel Options

A-40 (ZF-120) Galvanneal Steel	
A-60 (ZF-180) Galvanneal Steel	
G-90 (ZF-275) Bright Galvanized Steel	

Gauge Options	Core Options
16-Gauge	Bullet Resistant core
14-Gauge	Level 1-8
12-Gauge	
10-Gauge	

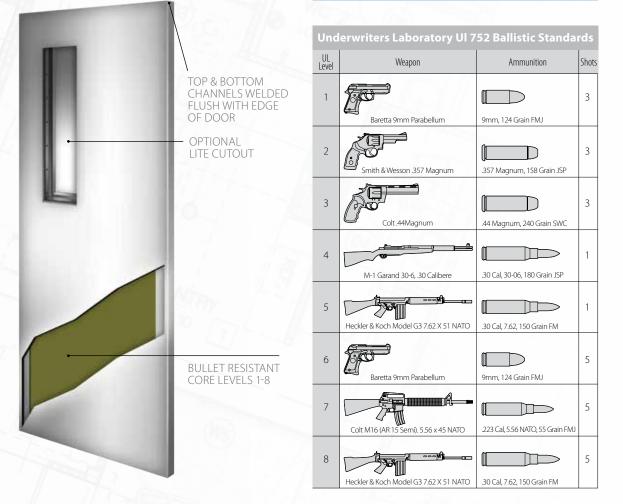
Edge Options

Exposed lock seam

Seamless – Tack welded filled seam

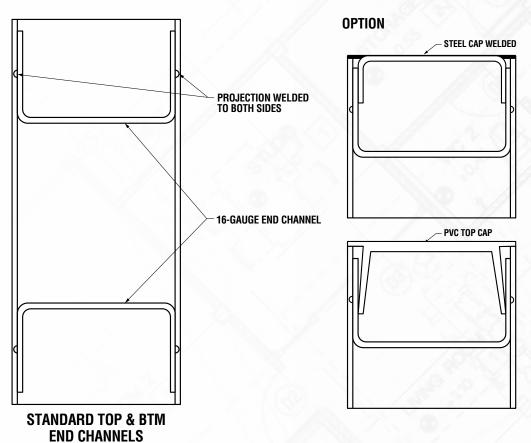
ground smooth

Seamless – Continuously welded edge seam

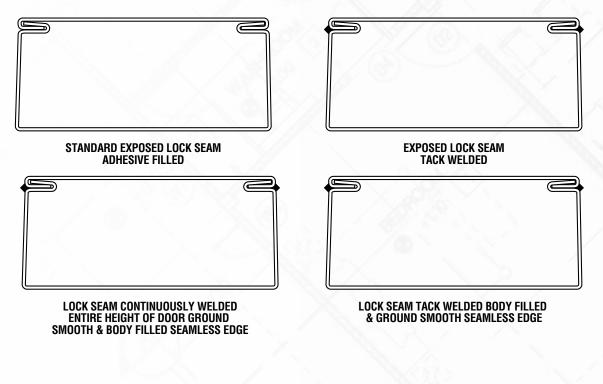


DOOR DETAILS

END CHANNELS



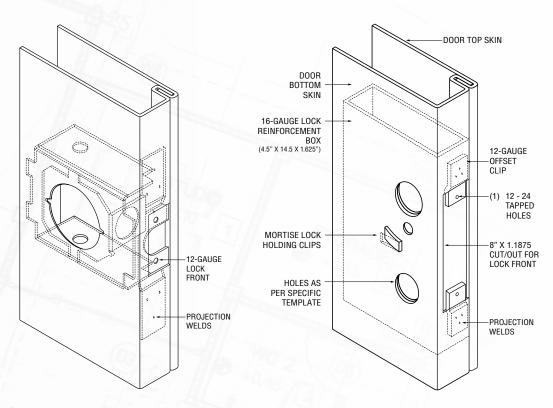
DOOR EDGES



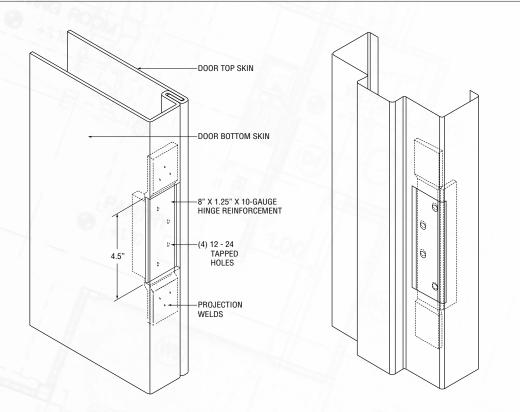
DOOR HARDWARE REINFORCEMENTS

CYLINDRICAL LOCK REINFORCEMENTS

MORTISE LOCK REINFORCEMENTS



HIGH FREQUENCY HINGE REINFORCEMENT

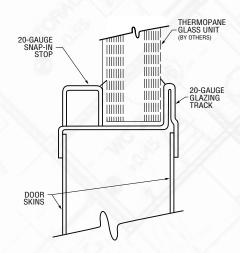


LITE KITS

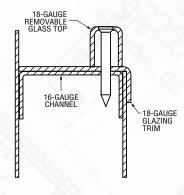
STANDARD SNAP-IN KIT

20-GAUGE SNAP-IN STOP UIIII GLASS (BY OTHERS) 20-GAUGE GLAZING TRACK

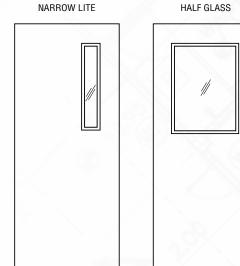
THERMAL GLASS KIT

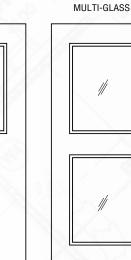


OPTIONAL THERMAL GLASS KIT

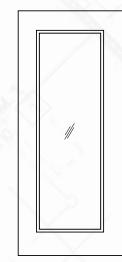


OPTIONS





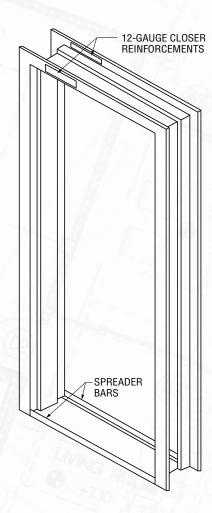
FULL GLASS

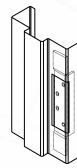


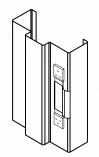
**Other lite options available

APEXINDUSTRIES.COM

PRESSED STEEL FRAMES







HIGH FREQUENCY 10-GAUGE HINGE REINFORCEMENT

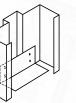
PROJECTION WELDED 12-GAUGE STRIKE REINFORCEMENT

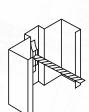




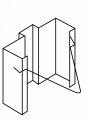
STEEL STUD ANCHOR (SPOT WELDED)

WOOD STUD ANCHOR EXISTING WALL ANCHOR





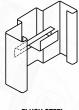
(SPOT WELDED)



FIXED FLOOR ANCHOR (SPOT WELDED)

CORRUGATED TAIL ANCHOR (SPOT WELDED)

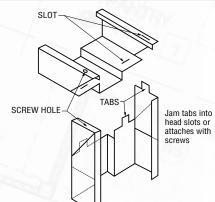
MASONRY WIRE Anchor (Shipped Loose with Frame)

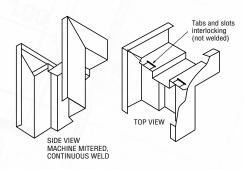




FLUSH STEEL STUD ANCHOR T ANCHOR

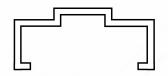
TYPICAL CORNER ASSEMBLY



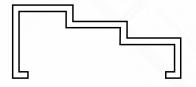


PROFILES

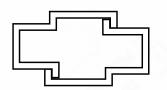
DOUBLE RABBET, SINGLE RETURN



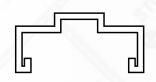
DOUBLE EGRESS



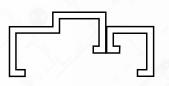
DOUBLE RABBET MULLION



DOUBLE RABBET, DOUBLE RETURN



THERMAL BREAK FRAME

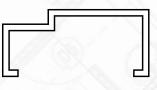


CENTER GLAZED, DOUBLE RABBET



SHADOW LINE

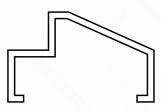
SINGLE RABBET, SINGLE RETURN (DOUBLE RETURN AVAILABLE)



THERMAL BREAK MULLION

CENTER GLAZED, MULLION

SLOPPED SILL



CUTOFF (SANITARY) STOPS 6' MAXIMUM HEIGHT AT FIRE RATED OPENINGS

45 degree

closed end



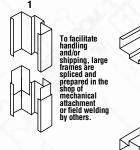
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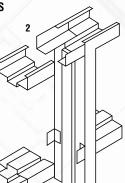
90 degree closed end

CASED OPEN FRAME (SINGLE RABBET, DOUBLE RETURN AVAILABLE)

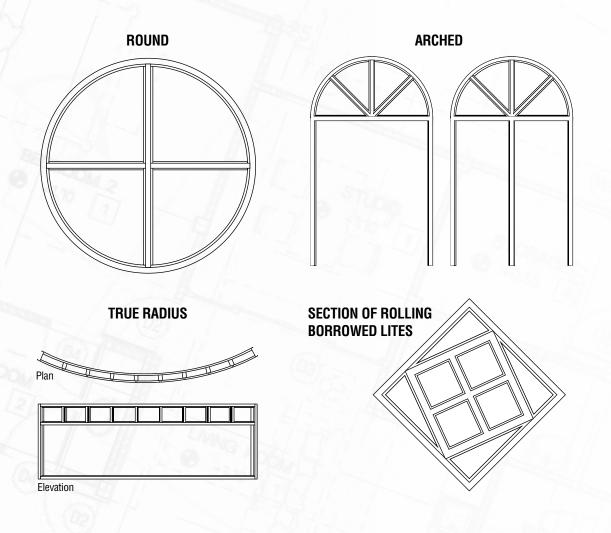


FIELD SPLICES FOR LARGE MULTI-OPENING FRAMES

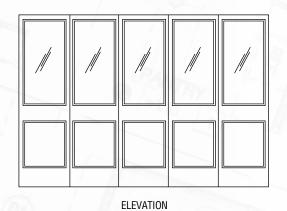


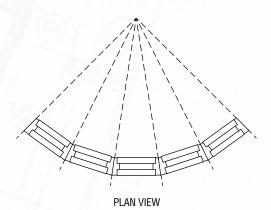


SPECIAL FRAMES CUSTOM FRAMES MADE TO ORDER



SEGMENTED FRAME





MASONRY STEEL BLOCKS

MECHANICAL







- SPRINKLERS
- PIPING
- VENTILATION

ELECTRICAL BLOCKS





- ELECTRICAL
- SWITCH
- ELECTRICAL BOXES
- HARDWARE MOUNTING
- INTERCOM
- CARD READER

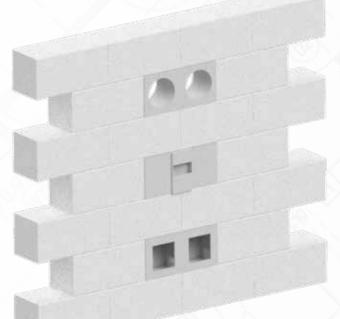
SPECIAL APPLICATIONS







- FOOT HOLD
- SOAP DISH - HAND HOLDS



APEXINDUSTRIES.COM

SPECIALTY DOORS AND FRAMES

IF YOU DESIGN IT ... WE WILL SUPPLY IT

Apex's true strength is our ability to manufacture a broad range of specialty doors and frames. This includes custom sizes, profiles, true radius and arched doors/frames, all manufactured from steel in the range of 20- to 10-gauge.

- Stainless steel doors and frames (304, 316, #4 finish)
- Lead lined doors and frames
- High security/bullet resistant/forced entry doors and frames
- Detention doors and frames
- Fire rated doors and frames



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