



Timely is pleased to provide the following  
information, and wishes to thank you  
for your interest in  
our Timely line of products

# REGISTERED PROVIDER PROGRAM SUMMARY

**Provider Name:** Timely Prefinished Steel Door Frames

**Program Title:** Prefinished Steel Door Frames

**Program Number:** T00003

**AIA/CES Learning Units:** 1

**This course qualifies for:** HSW

**Length:** 1 Hour



# LEARNING OBJECTIVES

- Learn the benefits of choosing to use Prefinished Frames for your project.
- Experience the lower labor costs of selecting Prefinished Frames for your project.
- Unmatched design flexibility with Prefinished Steel Door Frames.



# LEARNING OBJECTIVES

- Use specification information to consider appropriate options and designs when choosing a Prefinished Frame for successful installation.
- Identify appropriate applications and uses for the different types of Prefinished Steel Door Frames.





# AIA BEST PRACTICES

**Timely Industries** is a Registered Provider with the American Institute of Architects Continuing Education Systems. Credit earned upon completion of this program will be reported to CES Records for all AIA-members. Certificates of completion are available for non-members for self-reporting and recordkeeping purposes.

This program is registered with **AIA/CES** for continuing professional education. As such, it does not include content that may be deemed or construed to be an approval or endorsement by the AIA of any material of construction or any method or manner of handling, using, distributing, or dealing in any material product.

Questions related to specific materials, methods and services presented in the learning unit should be directed to **Timely Industries** upon completion of this program.

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## WHAT IS A PREFINISHED FRAME?

- Knock Down Door Frame
- Made of steel
- Prefinished
- Over 1,000 different types of varieties, colors, sizes





## PREFINISHED FRAME BASE MATERIAL

- GalXC is manufactured by a steel supplier in Pittsburg CA and where 100% of the Steel is Purchased
- GalXC is Hot Dipped Galvanized equivalent to a G30
- GalXC is 1.5 times the corrosion resistance of ASTM A653



## UPI.GALXC HOT DIPPED GALVANIZED

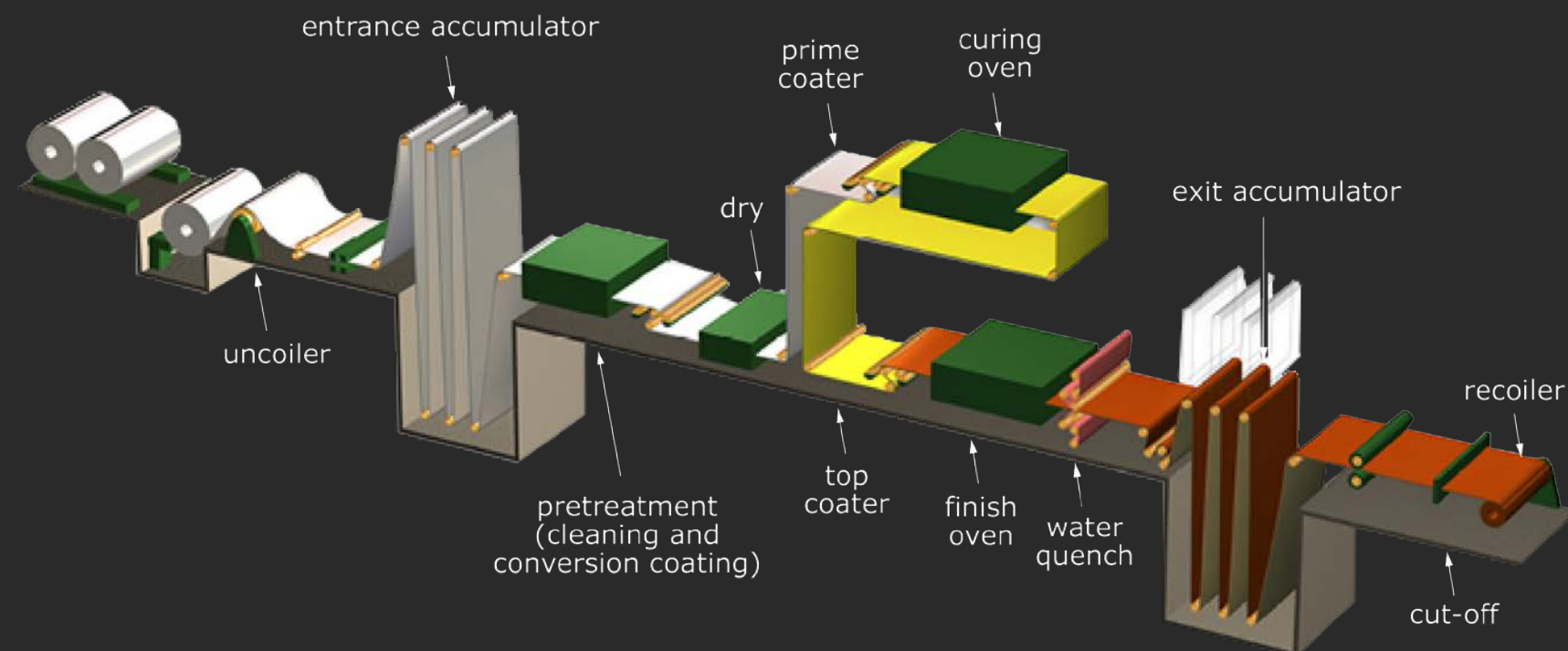
- Easier to specify, prefinished frames can be installed in virtually any environment
- GalXC zinc coating protects the steel by acting as a sacrificial anode; any exposed parts of the steel, such as exposed edges on the strike emboss or at the end of each frame, are also protected by the thicker zinc coating





## PREFINISHED FRAME – FINISH COATING PROCESS

- The coil coaters continuous coil coating process cleans, pretreats and roll applies corrosion resistant Polyurethane Primers and Color Coatings to our GalXC steel





# THE MOST ECO-FRIENDLY WAY TO APPLY COATINGS

**Precision Roll Coating Methodology:** Controlled and uniform coverage's are impossible to achieve with post painted steel (painted after fabrication).

**Transfer Efficiency:** 100%, no overspray, no waste.

**VOC Capture:** The Coil Coating process captures and destructs a minimum of 98% of the coating's VOC's, eliminating pollutants that would otherwise be released into the air.

**Benefits of Coil Coating:** Substantial energy savings vs. post painting processes, trouble-free environmental compliance and minimized waste and emissions.

**Recyclable & Recycled:** 70% of all steel is recycled. Pre-painted Steel and Prefinished Door Frames are completely recyclable.





## POLYURETHANE PAINT SYSTEM

- The Polyurethane Paint System is a high performance polyurethane coating used on all of our finishes
- Excellent film hardness
- Abrasion resistant
- Withstands impact
- U.V. Resistant
- Chemical resistant



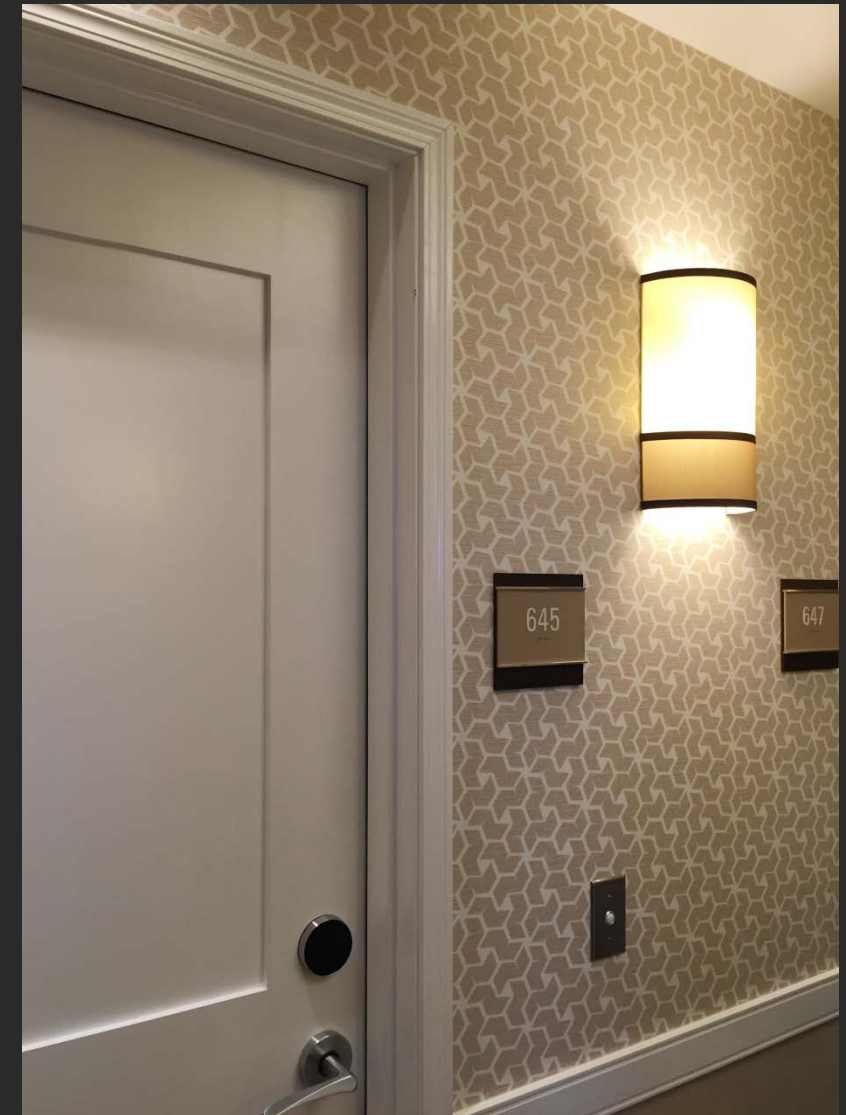
## PREFINISHED STEEL FACTS

- Who else uses prefinished steel?
- Ceiling grids
- Appliances
- Roofing
- Only one Prefinished Frame Manufacturer using GalXC™



## PRE FINISHED STEEL BENEFITS

- Durable
- Finish is consistent
- Long Life expectancy
- This is the most environmentally friendly way to apply paint in the world





## PAINTING IN THE FIELD vs PREFINISHED

- Paint manufacturers advise the primer on hollow metal needs a finish coat applied within 30 days of delivery
- How many coats of paint is specified?
- Hollow metal and wood will require caulking
- Additional cost in labor and materials



# PREFINISHED FRAME APPLICATIONS



Lodging



Office-Professional



Medical Office



Dormitories



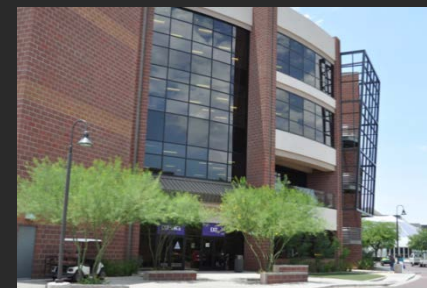
Buildings Of Worship



Assisted Living



Multi-Family



Schools



Hospital Non-Surgical



Retail



# LODGING

## The Art Hotel



1201 Broadway,  
Denver, CO 80203

OFFICE PROFESSIONAL

# inContact Office Building



75 West Towne Ridge Parkway, Tower 1  
Sandy, UT



MEDICAL OFFICE

# Florida Hospital Medical Pavilion Sebring



4240 Sun N' Lake Blvd.  
Sebring, FL 33872

# DORMITORIES

## Grand Canyon University



3300 West Camelback Road  
Phoenix, AZ 85017



# BUILDINGS OF WORSHIP

## Alpine Church



5050 S. 1275 W., Riverdale, UT



ASSISTED LIVING

# The Springs At Veranda Park



1641 Veranda Park Dr.  
Medford, OR 97504



MULTI-FAMILY

# One Lincoln Park



2001 Lincoln Street  
Denver, CO 80202

MULTI-FAMILY

# One Hundred Van Ness



100 Van Ness Ave,  
San Francisco, CA 94102



## SCHOOLS

# Roosevelt University



430 S. Michigan Avenue  
Chicago, IL 60605



# HOSPITAL NON-SURGICAL

## Kaiser Permanente



43112 15th Street  
W Lancaster, CA 93534



RETAIL

# Pet Smart



2224 Route 27  
Edison, New Jersey 08817

# STEEL FRAME TYPES

## WELDED FRAMES

16 gauge



## KNOCKED DOWN DRYWALL FRAMES

16 or 18 gauge



## PREFINISHED DRYWALL FRAMES

18 or 20 gauge  
(with applied casings)





## ALUMINUM

- Aluminum has limited fire ratings
- Not easy to repair in the field
- Difficult to install on Poor Wall Construction



# PREFINISHED STEEL FRAME vs WOOD FRAME

## WOOD FRAME

### SECURITY

Failure point occurs when stop is crushed and door is unlatched.

### INSTALLATION LABOR

Installation, caulking and painting.  
Extra labor could ready affect the schedule.

### MAINTENANCE

Jambs to get kicked in all the time.  
High labor cost for per strike jamb replacement.

### REPLACEMENT COST

High part cost for per strike jamb replacement.



## PREFINISHED STEEL FRAME

### SECURITY

Certified test results prove that the engineered anchoring system using 40 or more fasteners allows the lighter gauge frame to withstand far greater forces.

### INSTALLATION LABOR

Prefinished opening systems eliminate multiple trips to each opening by laborers, installers and painters.

### MAINTENANCE

No maintenance needed.

GalXC is a Hot Dipped Galvanized product that provides superior corrosion resistance in the harshest environments while balancing outstanding surface, gauge, and shape quality.

### REPLACEMENT COST

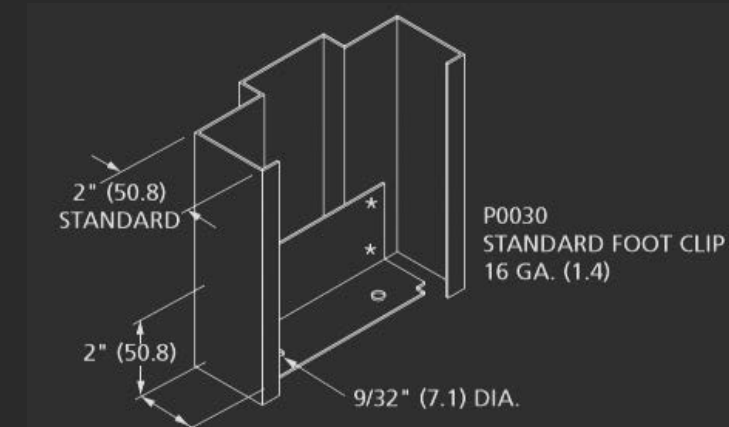
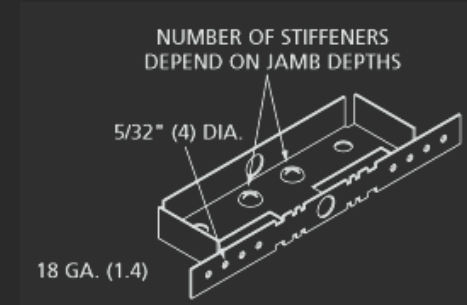
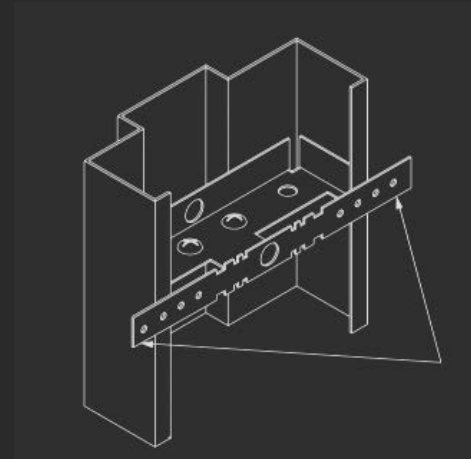
Prefinished frame is completely reusable.



# MASONRY FRAMES

## Welded or Knocked Down (KD)

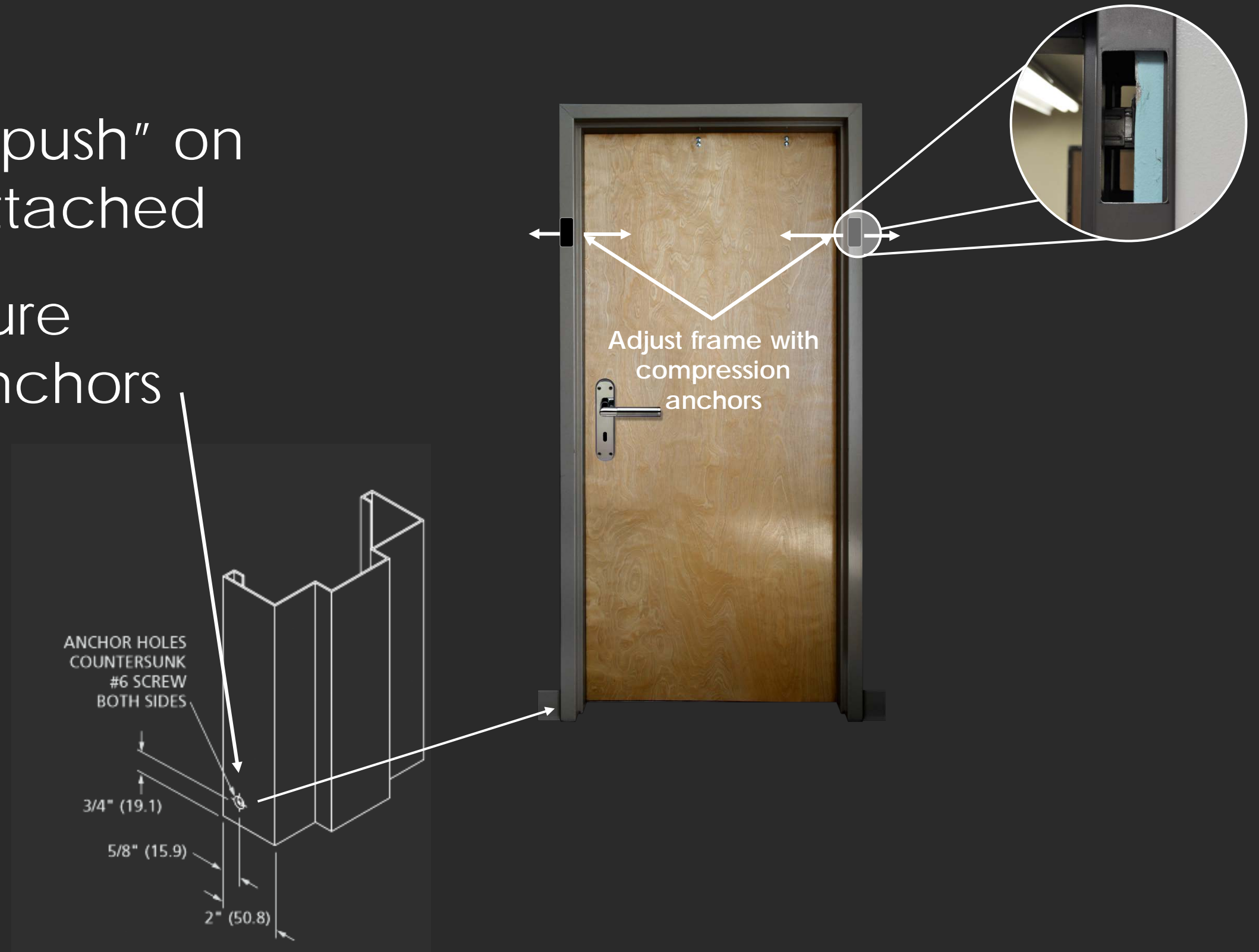
- 6 Anchors to wall
- 2 Floor anchors
- Steel Studs screw in Pull Configuration.  
Wood Studs screw in Sheer Configuration





# HOLLOW METAL DRYWALL FRAMES

- Slip over a finished wall
- Compression anchors “push” on studs – not physically attached
- Only fasteners to structure are 4 screws at base anchors
- Optional base strap anchors available
- Cannot adjust to uneven wall surfaces

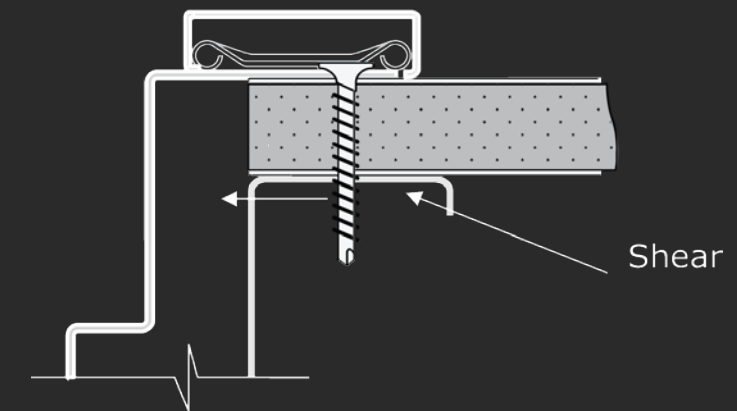
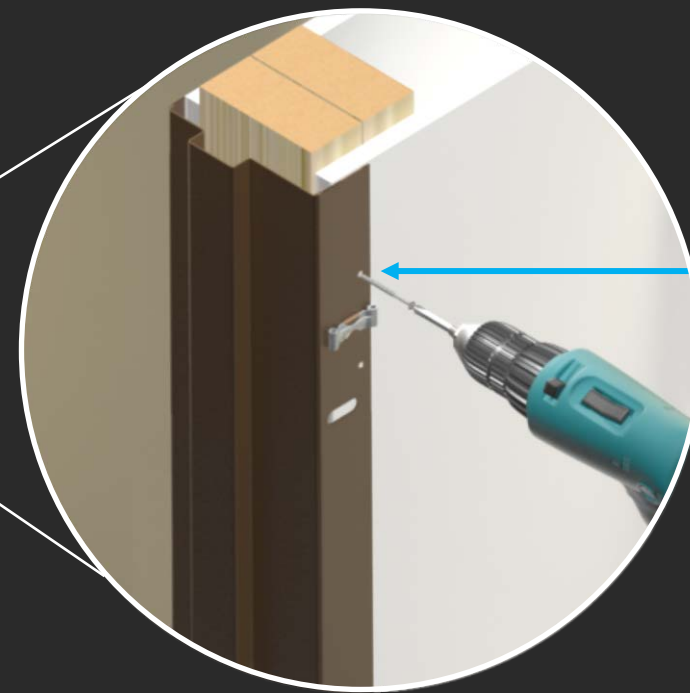




## PREFINISHED DRYWALL FRAME WITH APPLIED CASING

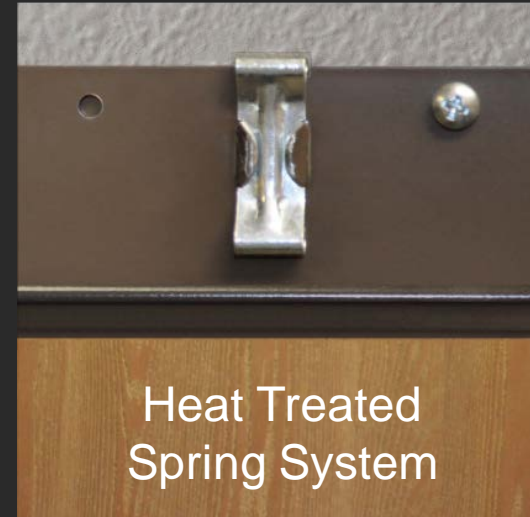
- Anchors every 11" around full perimeter of frame on both sides
- Minimum of 40 anchors to structure for 3'0" x 7'0" frame
- All fasteners in shear to the force of the door weight
- Applied casing conceals all fasteners

Casing Clips located around full perimeter of frame. A screw is used at every clip to secure the frame on both sides of the complete opening

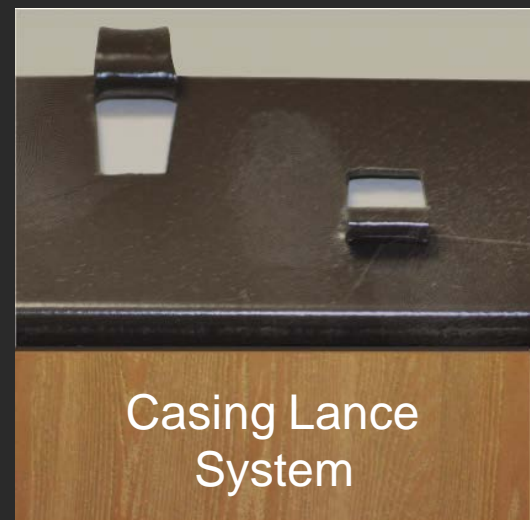


Minimum of 40 fasteners per frame concealed by casing

## CASING ATTACHMENT SYSTEM PROCESS REVIEW



- Heat Treated Spring Clip System
- **Heat treated spring clip** allows for adjustments by removal of the casing. Can be reinstalled and still provides a quite firm grip



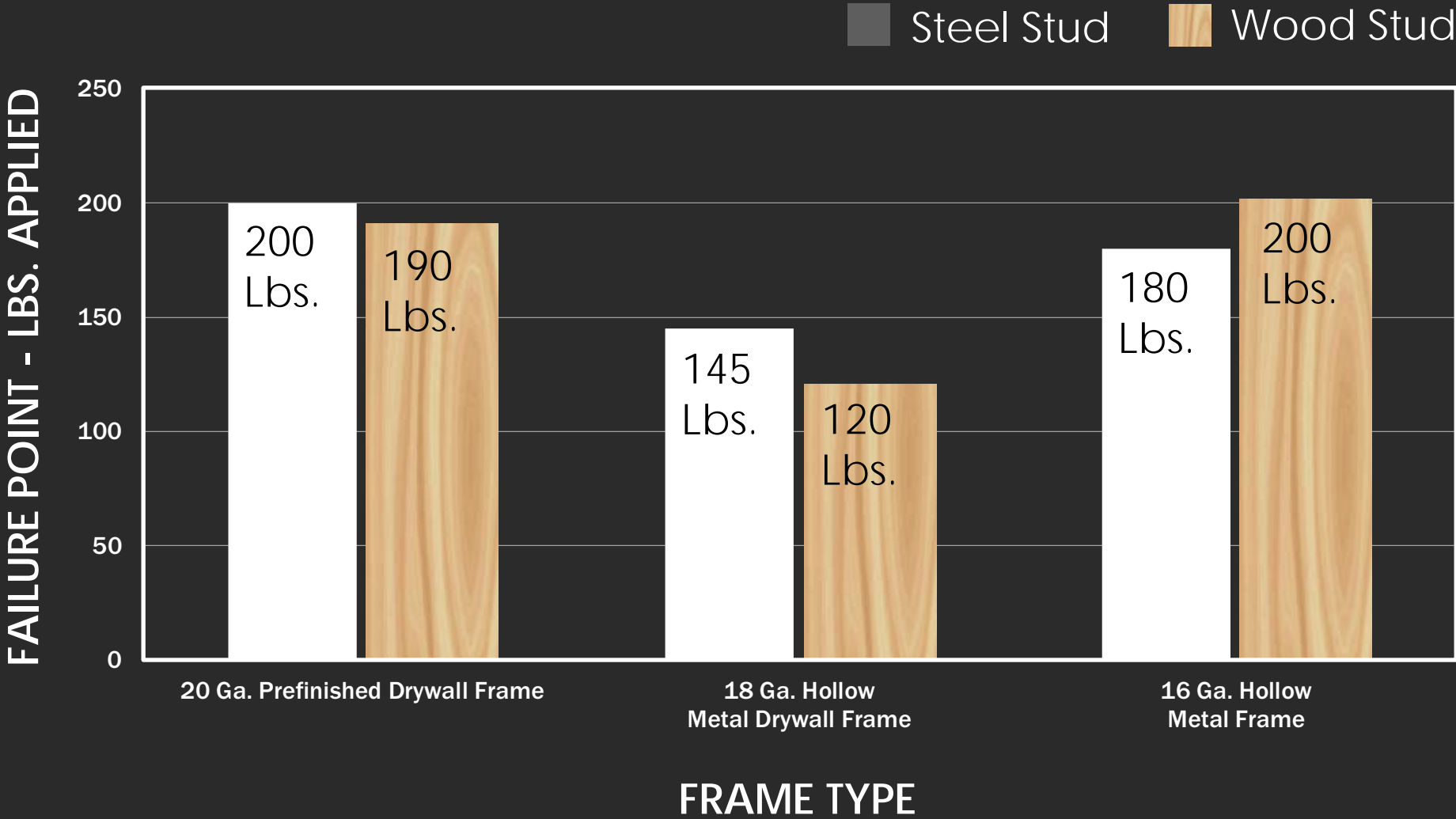
- Casing Lance System
- Casing installed using the casing lance system is difficult to remove and once the casing is put back on it is loose and tends to rattle due to the casing lance



# PERFORMANCE COMPARISON

## LATERAL IMPACT (TWIST) TEST RESULTS

Lateral force applied to frame until frame, anchors, or fasteners dislodged.



Frequent impact by equipment.  
Failure occurs when anchor or fasteners dislodge, allowing frame to move on the wall.

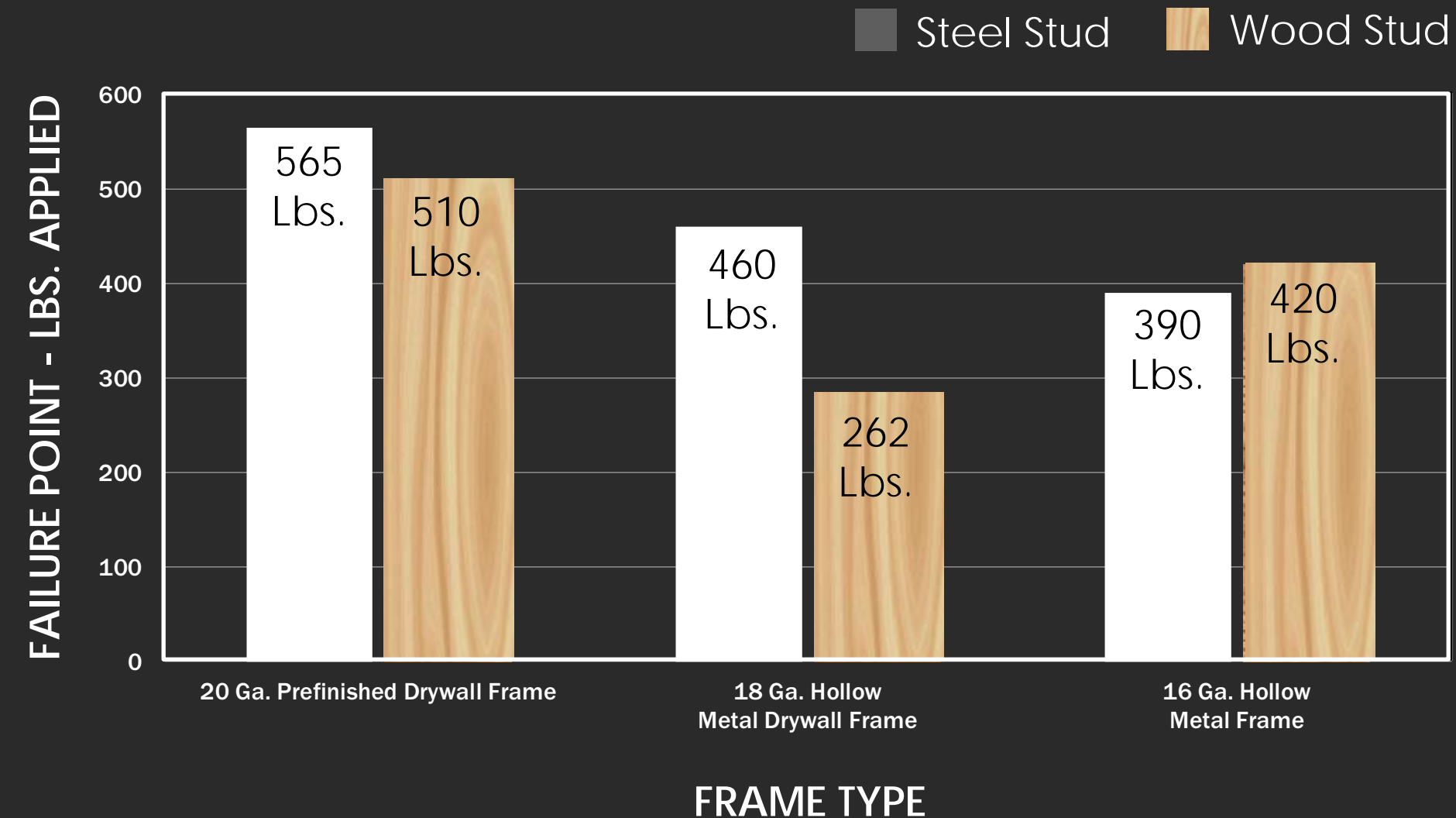


Independent testing conducted and Certified by Product Evaluation & Certification, Inc. (PEC) – 4/24/86

# PERFORMANCE COMPARISON

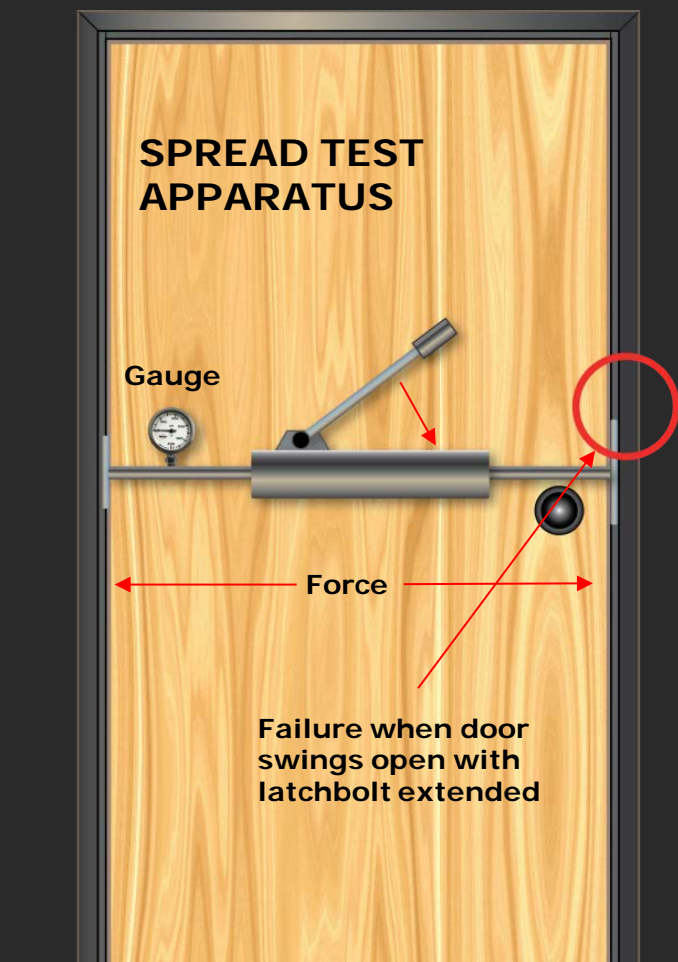
## SECURITY (SPREAD) TEST RESULTS

Force applied to frame stops – failure point occurred when door unlatched



Break in attempt.

Failure occurs when frame stop is crushed, then compromised when door opens freely.



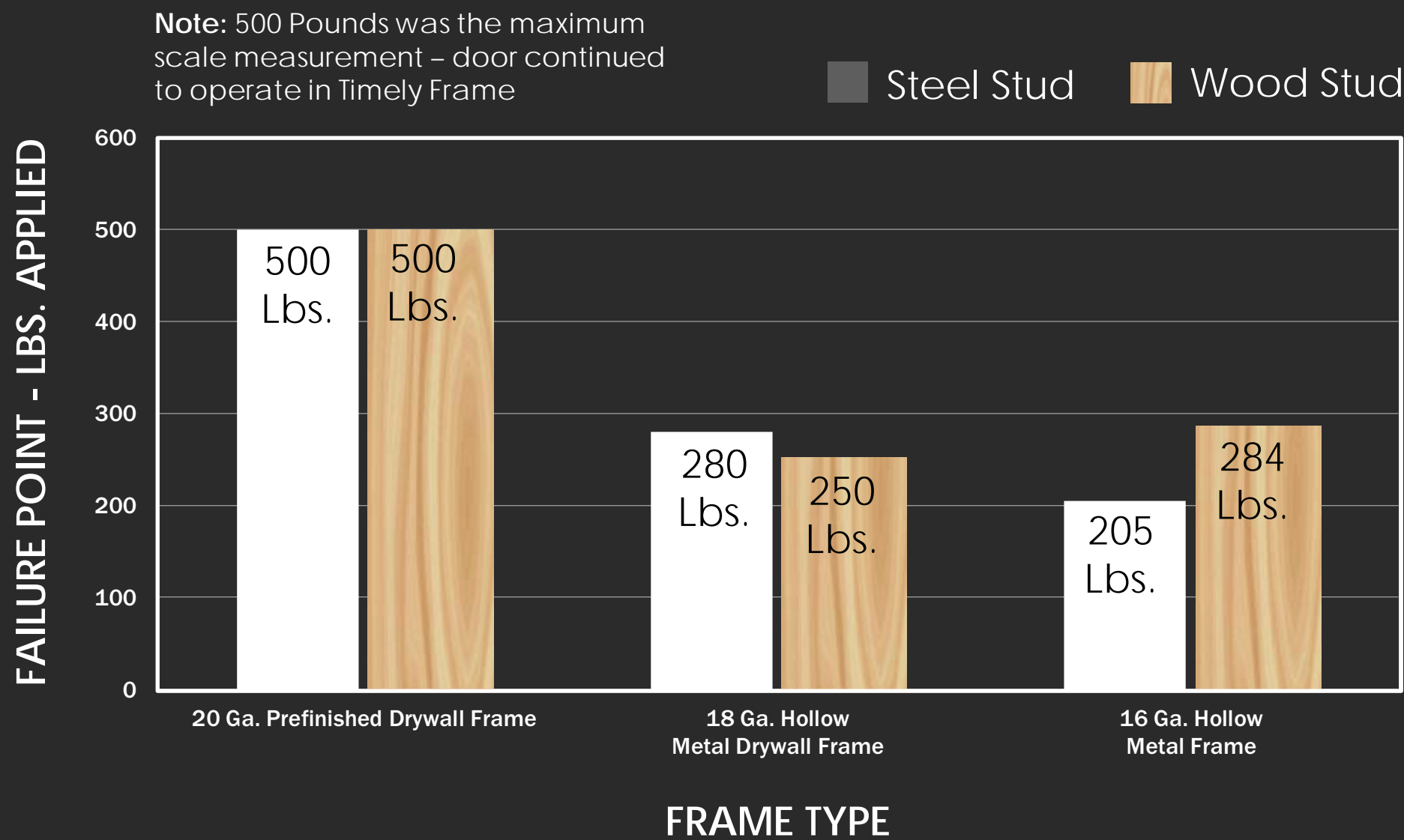
Independent testing conducted and Certified by Product Evaluation & Certification, Inc. (PEC) – 4/24/86



# PERFORMANCE COMPARISON

## TOTAL DOOR WEIGHT

Weight added to door until door closing was impaired



Door Sag.

Failure occurs when door sag is so great that door(s) latching is no longer aligned and can not close properly.



## PERFORMANCE – PREFINISHED STEEL FRAMES

- Prefinished Steel frames withstand impact
- Can use on heavy doors
- Door will not sag in opening
- Prefinished Steel not easily broken into by intruders
- Can use on wide doors
- Prefinished Steel improves performance





REDUCED COST

**TRIPS TO EACH OPENING REQUIRED –**  
Prefinished frames with applied casings

MATERIAL DISTRIBUTION:

Door, Frame and Hardware in one  
trip to the opening

INSTALLATION LABOR:

Pre-finished Door, Frame and  
Hardware in one trip to the opening



REDUCED COST

## TYPICAL TRIPS TO EACH OPENING – Primed Hollow Metal Frames

MATERIAL DISTRIBUTION:

One trip each for frame, door and hardware

INSTALL:

One trip each for frame, door and hardware

FINISH PREPARATION: One trip to opening

PAINTING: One trip per coat of paint

FINISH TOUCH-UP AND CLEANING: Final trip to opening





# PERFORMANCE UNDER STRESS

## PERFORMANCE SUMMARY

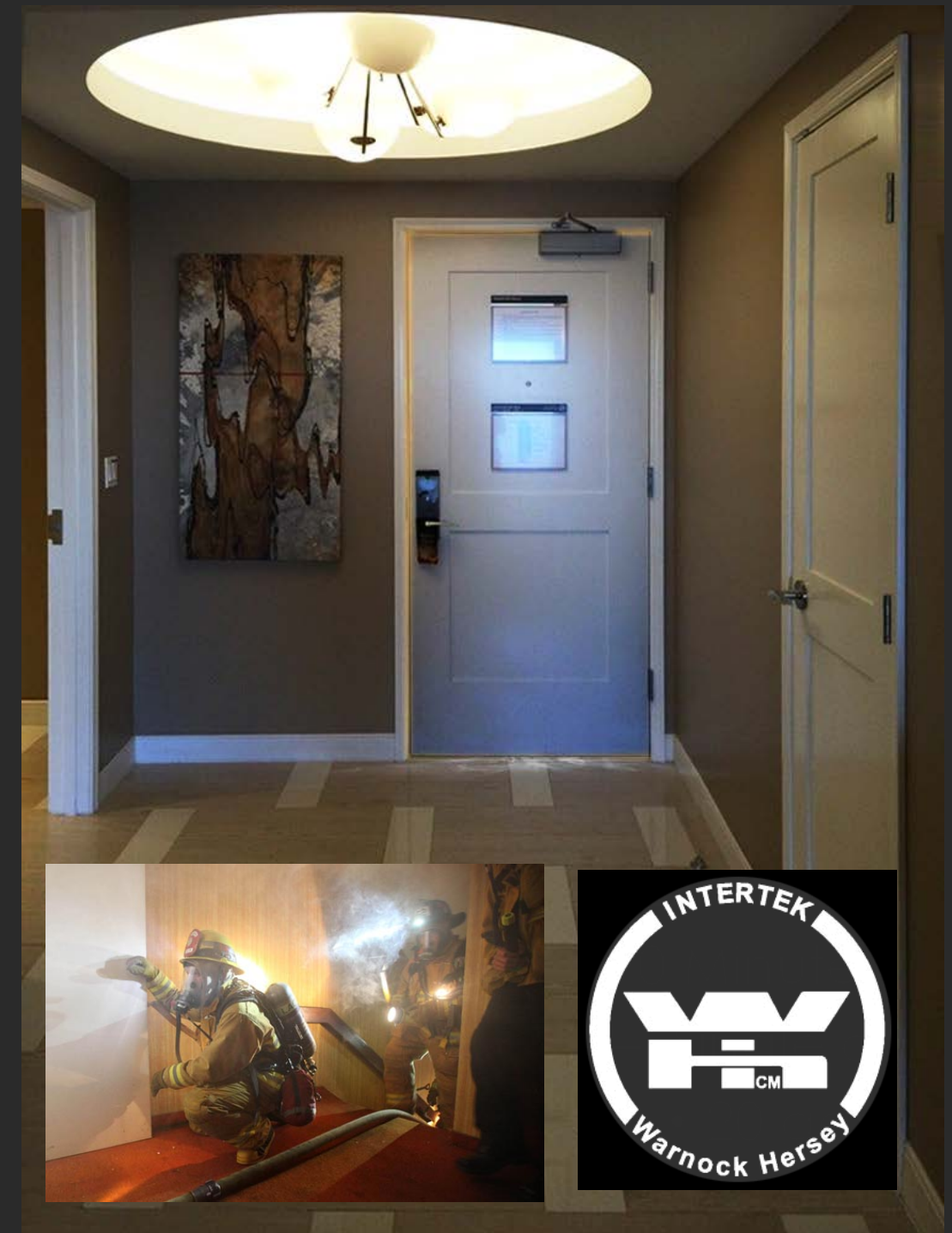
- Frame performance is based on how the frame attaches to the structure, not on the thickness of steel
- Prefinished drywall frame anchors around the full perimeter on both sides making the frame part of the structure
- Hollow Metal Masonry frames rely on six (sometimes eight) 18 gauge anchors that can be easily torn loose or deflect
- Hollow Metal Drywall frames only anchor to the structure at two points at the base of the frame



# PERFORMANCE UNDER FIRE

## FIRE RATINGS

- 90 Minute Rating – Positive Pressure
  - Single and Pair Frames
    - 20 gauge, 18 gauge
    - Up to 8'0" x 9'0"
- 45 Minute Rating – Positive Pressure
  - Sidelight and Borrowed light
    - 36" width – up to 1,296 sq. in.
    - 24" width – up to 2,568 sq. in.



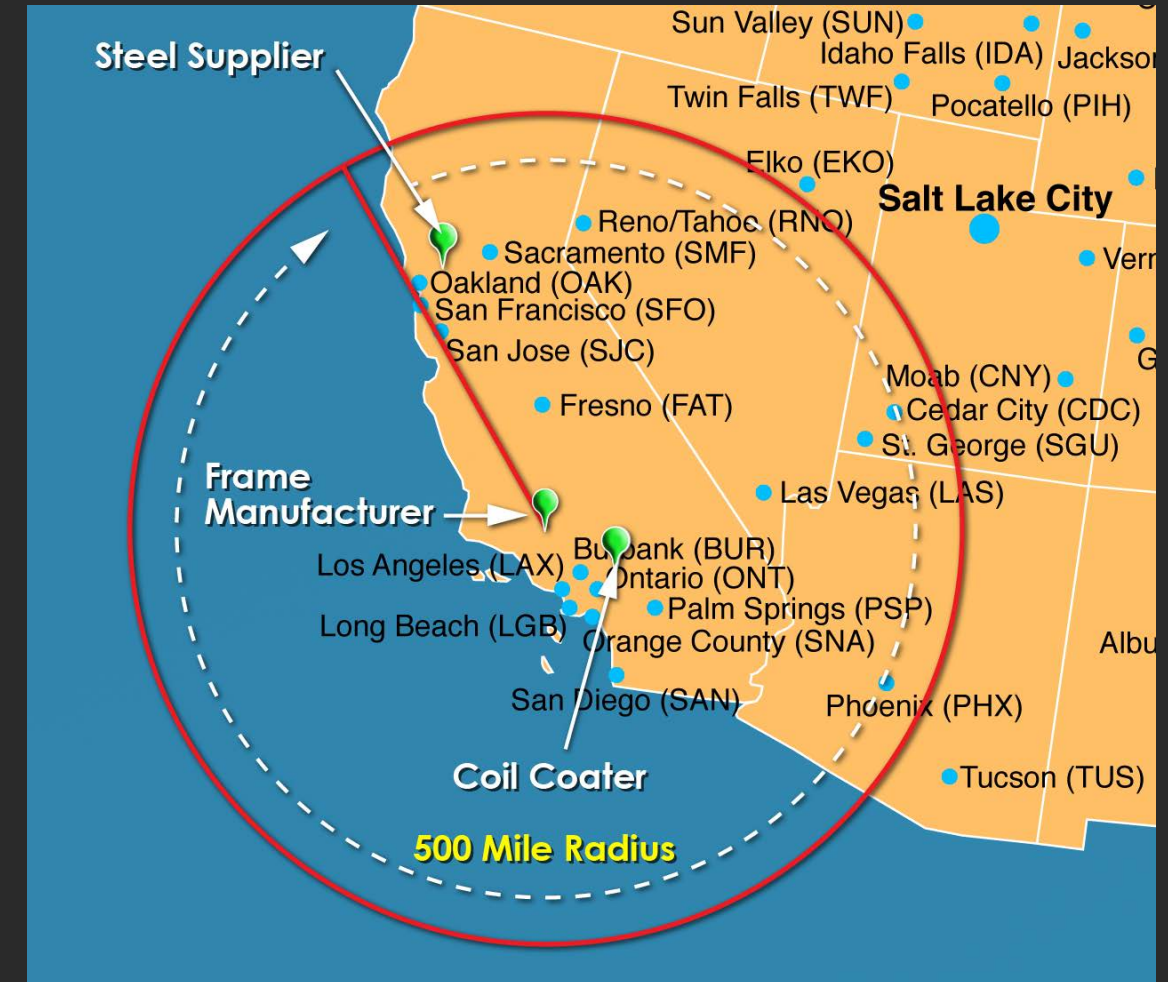
# LEED & SUSTAINABILITY

## LEED CONTRIBUTION

- MR4.1, MR4.2 – Recycled Content
  - Steel Frame with Steel Casing
    - 28.9% of Material cost
  - Steel Frame with Aluminum Casing
    - 41.2% – 45% of Material cost
- Daylighting and Views
  - Contributes to Daylighting and Views using sidelights, borrowed lights and transoms
- Proximity
  - Manufactured in Pacoima, CA 91331 (MR5.1)
- Jobsite Contribution
  - All packaging recyclable
  - No jobsite VOC issues

## SUSTAINABILITY

- Easily re-installed in new openings
- 100% recyclable product





# LEED & SUSTAINABILITY

Choosing to use our aluminum casing will also produce good sustainable benefits. The post-consumer percentage is 50% and the pre-consumer percentage is 25% resulting in a contribution of 62.5% on aluminum.

*Sustainability contribution for frames is based on material cost with the following percentages:*

- |   |       |
|---|-------|
| • Steel frame with Steel Casing                   | 28.9% |
| • C Series Steel frame with TA-23 Aluminum Casing | 41.2% |
| • C Series Steel frame with TA-28 Aluminum Casing | 44.0% |
| • S Series Steel frame with TA-23 Aluminum Casing | 42.1% |
| • S Series Steel frame with TA-28 Aluminum Casing | 45.0% |



# AESTHETIC CONSIDERATIONS COLORS, CASINGS AND CREATIVITY



## CASING OPTIONS

**STANDARD STEEL: 3/8" –  
1/4" REVEAL**





## CASING OPTIONS

# COLONIAL STEEL: 1/4" REVEAL



## CASING OPTIONS

**ALUMINUM: 1/4" REVEAL**



## CASING OPTIONS

# ALUMINUM: NO REVEAL





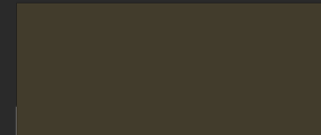
## CASING OPTIONS

**WOOD CASING:**  
(SUPPLIED BY OTHERS)



# FINISH OPTIONS

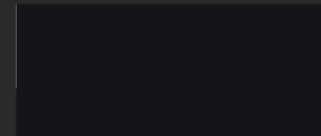
## STANDARD FINISHES



**BROWNTONE** (SC101)



**AUTUMN BROWN** (SC102)



**BLACK** (SC103)



**STONE GRAY** (SC106)



**WESTERN WHITE** (SC107)



**ALUMATONE** (SC108)

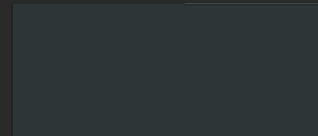


**PRIMER** (SC109)

## PRE-MATCHED CUSTOM FINISHES



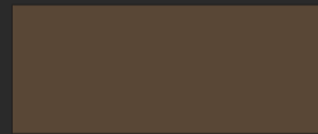
**WHITE SMOKE** (CC302)



**CHARCOAL** (CC401)



**DRIFTWOOD** (CC501)



**BLACK BEAN** (CC611)



**DOESKIN** (CC603)



**PACIFIC BLUE** (CC801)



**OCEAN SPRAY** (CC811)



**NAVAJO WHITE** (CC104)



**BONE CHINA** (CC303)



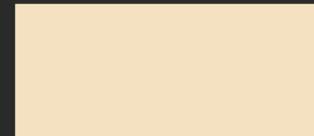
**CAPE COD GRAY** (CC402)



**SANDY BEACH** (CC502)



**URBANE BRONZE** (CC612)



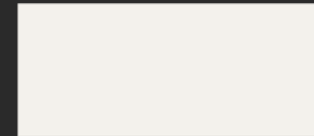
**HARVEST MOON** (CC604)



**TWILIGHT** (CC802)



**MALIBU GREEN** (CC904)



**WINTER WHITE** (CC105)



**DESIGNER WHITE** (CC304)



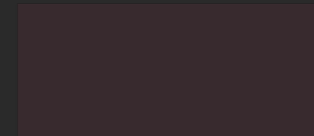
**NEUTRAL GRAY** (CC403)



**CAMEO BEIGE** (CC503)



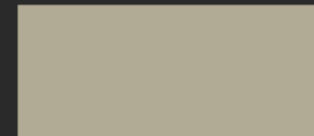
**BROWN SUGAR** (CC601)



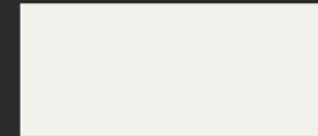
**CORDOVAN** (CC701)



**JADE** (CC901)



**BLACK NICKEL** (CC905)



**WHITE WHITE** (CC301)



**SNOW WHITE** (CC311)



**NICKEL** (CC404)



**THUNDER** (CC511)



**COCOA** (CC602)



**RUBY RED** (CC702)



**KENTUCKY GRASS** (CC902)

Custom color matching also available. Submit color chip. Consult factory for pricing.

## ELITE SERIES



**430 BRIGHT STAINLESS STEEL** (ES204)



**304 #4 BRUSHED STAINLESS STEEL** (ES206)

CREATIVITY

Sidelights

Borrowed Lights

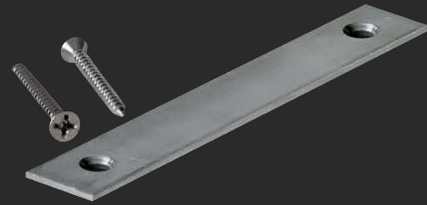
Transoms and Clerestories



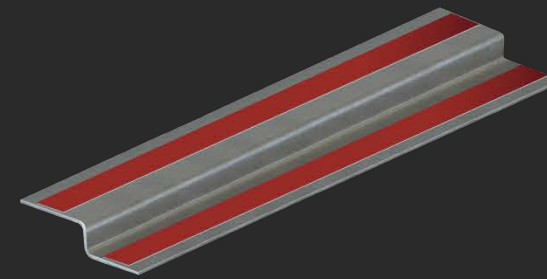


# PREFINISHED FRAME REINFORCEMENT SYSTEM

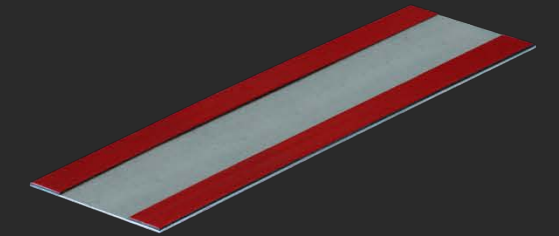
Regular Arm Closer  
Reinforcement  
Bracket (used with  
TA-35 Casing)



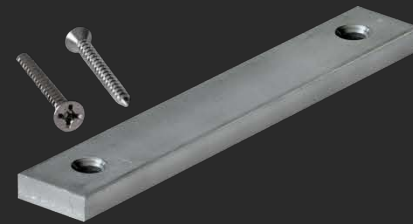
Reinforcement Bracket for  
Parallel Arm Closer



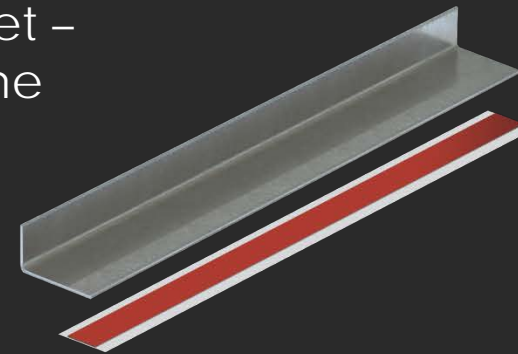
Multipurpose  
Reinforcement  
Bracket



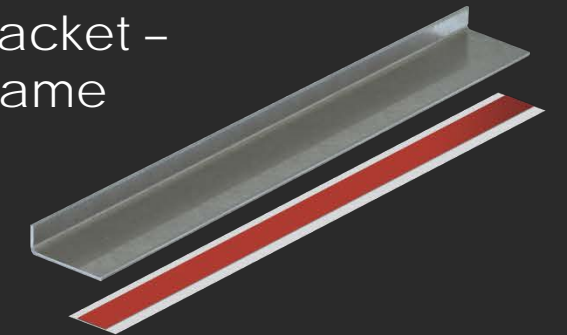
Reinforcement  
Bracket for Regular  
Arm Closer



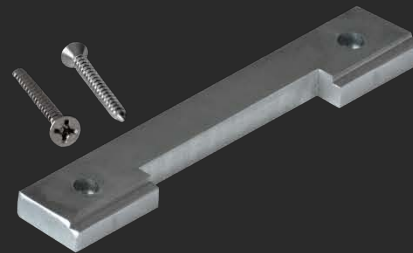
Parallel Arm Closer  
Reinforcement Bracket –  
Fixed Throat Kerf Frame  
(was TA-12K)



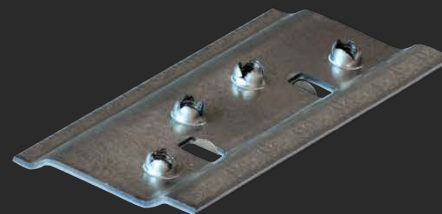
Parallel Arm Closer  
Reinforcement Bracket –  
Adjustable Kerf Frame



Reinforcement  
Bracket Used as a  
filler when preparing  
frame for Electric  
Strike



Hinge Reinforcement  
Bracket (Specify Hinge Size  
and /Screw Pattern  
Emboss)



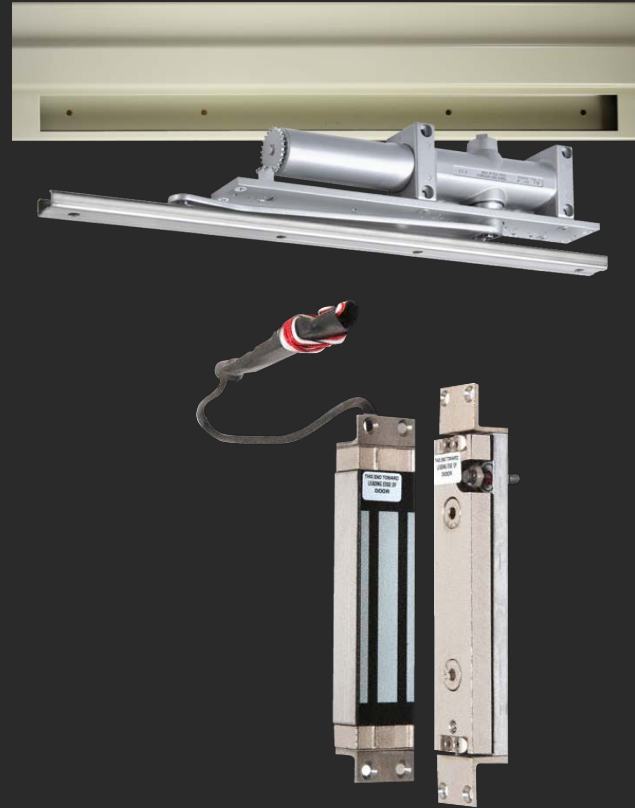
Continuous Hinge  
Reinforcement (Specify  
6-8, 7-0 or 8-0 Length)



# HARDWARE PREPARATIONS

## CUT AND WELD (CAW)

- Concealed Vertical Rod Exit Device Strikes
- Electronic Power Transfers (EPT)
- Overhead Concealed Stops and holders
- Overhead Concealed Closers
- Center Hung Pivot Sets
- Rescue hardware
- Recessed Magnetic Contacts and Switches



## STRIKES

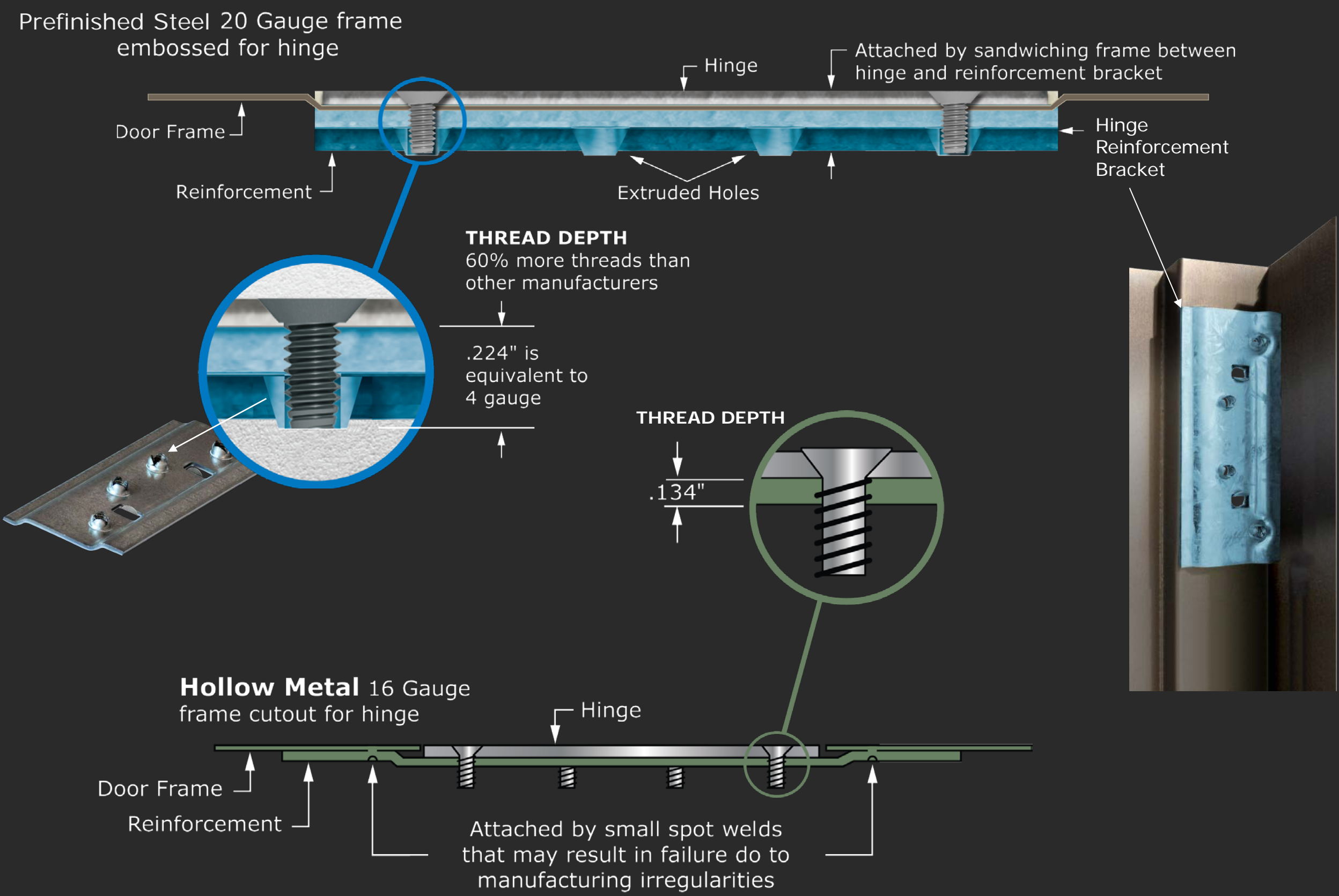
- Adjustable "T" Strike
- ASA Strike – Mortise Lock
- Electric Strikes
- Flush Bolt Strike
- Deadbolt Strike
- Roller Latch Strike
- 2 1/4" Full Lip Strike
- Euro Mortise Lock Strike



## HINGES

- 3 1/2", 4", 4 1/2", 5"
- 0.180 4 1/2" Hinge Prep
- Electric Hinge Prep available
- Radius or Square corner
- Residential and Commercial weight

# HINGE REINFORCEMENTS

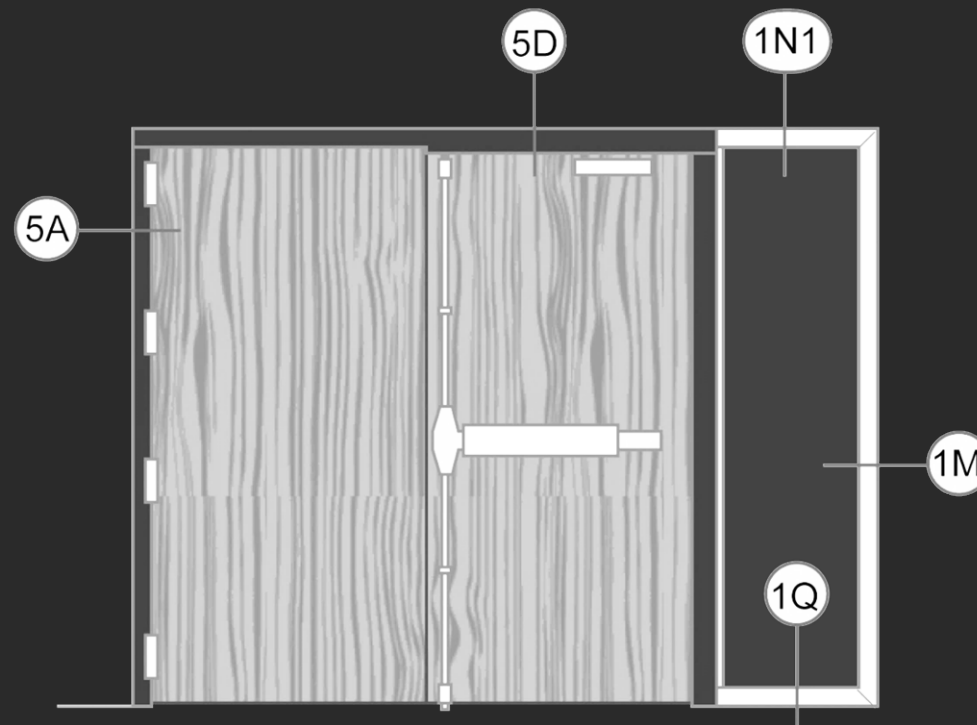
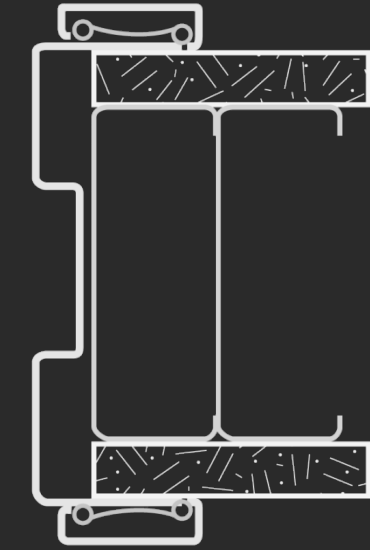
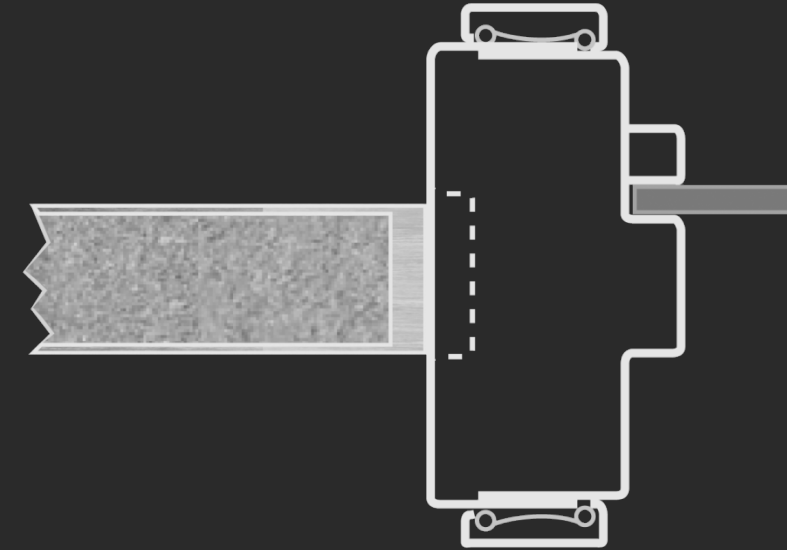
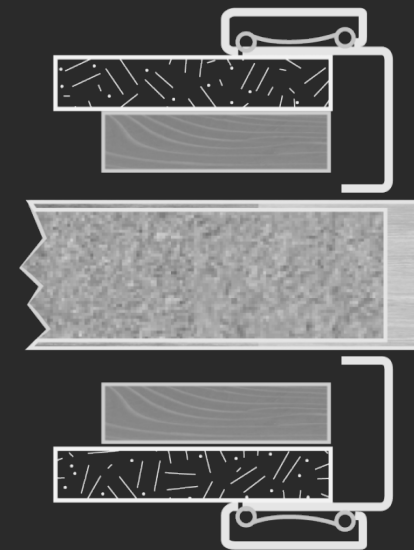
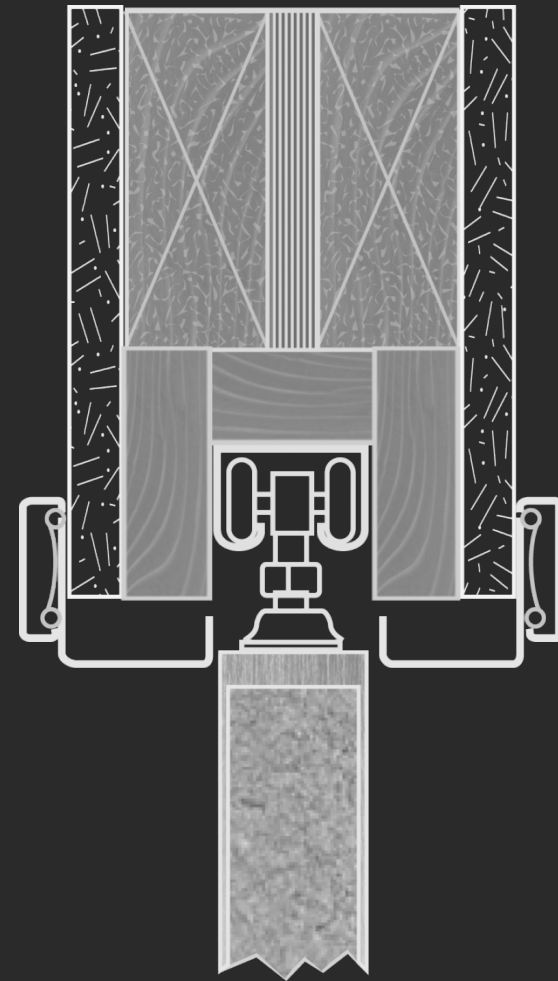


## EXTRUDED SCREW HOLES VS TAPPED SCREW HOLES

Timely's hinge reinforcements screw holes are extruded therefore the pushed out steel grabs more threads on hinge screws giving the frame a stronger holding capacity. This method exceeds the requirements of ANSI A250.8 (10 gauge) reinforcement.

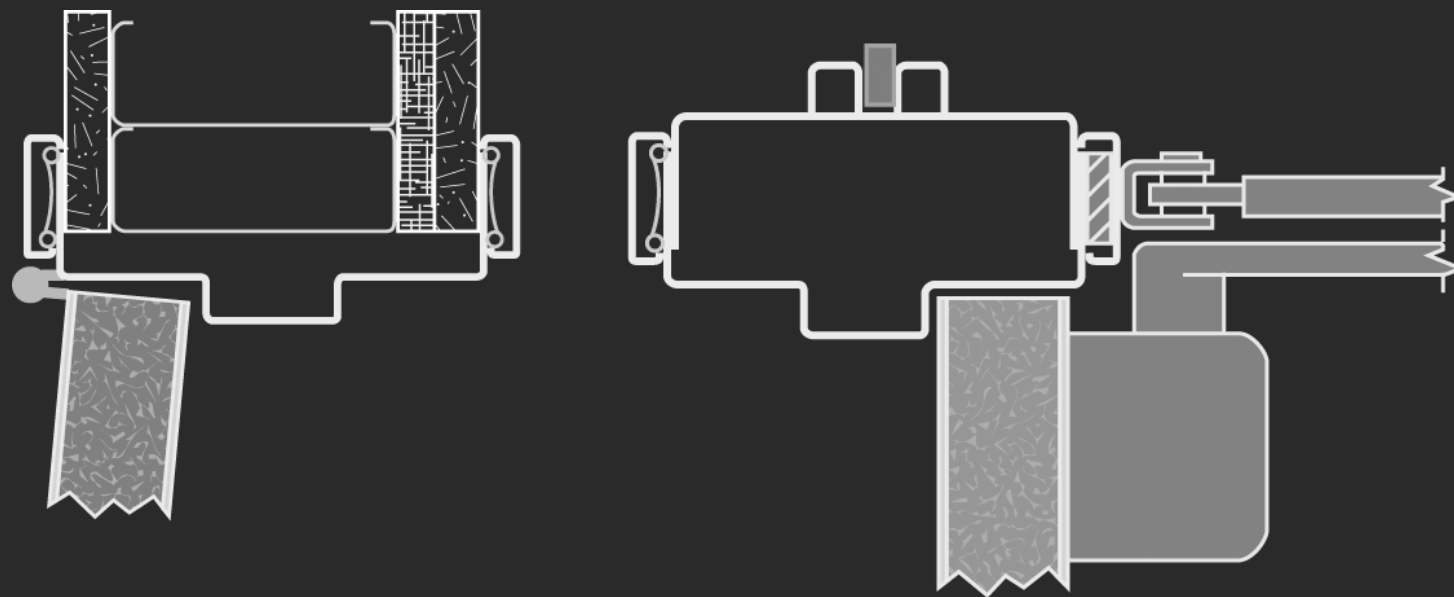


# PLAN DETAILS AND ELEVATIONS



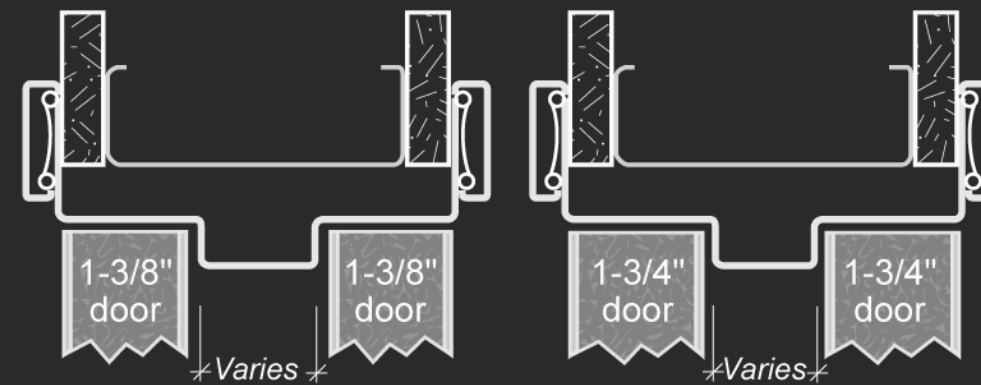
## UNEQUAL RABBET (STANDARD)

- Use with 1 3/4" or 1 3/8" doors
- 18 gauge or 20 gauge



## EQUAL RABBIT

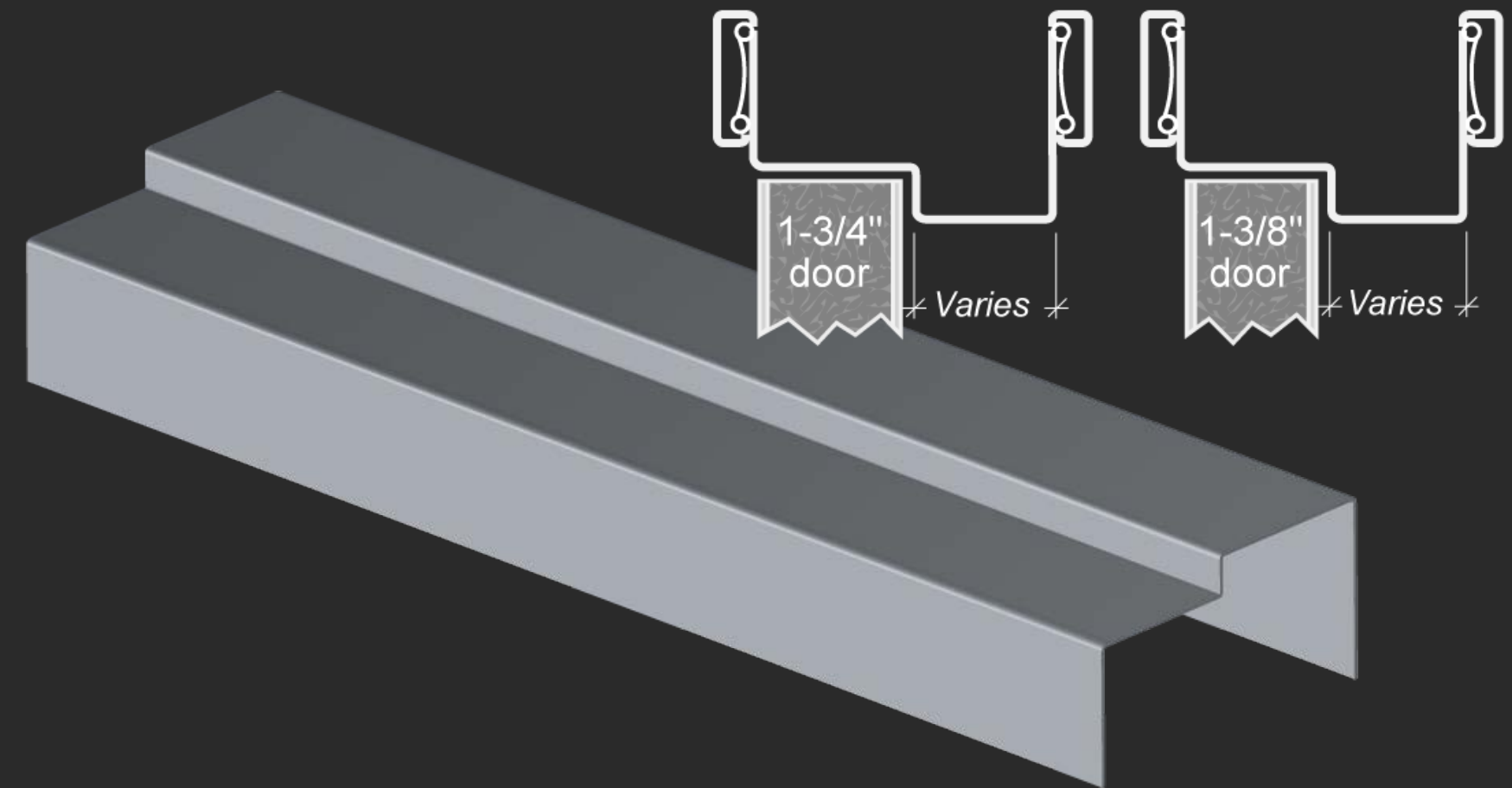
- Use with 2 ea. 1 3/4" doors or 2 ea. 1 3/8" doors
- 18 gauge only
- Equal Rabbit used for Communication doors





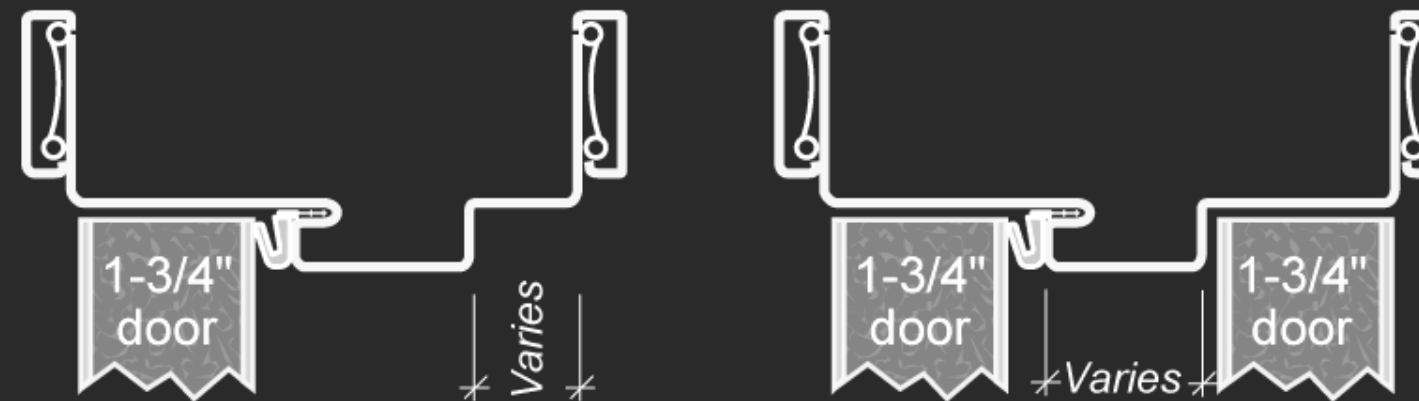
## SINGLE RABBET

- Use with 1 3/4" or 1 3/8" door
- 18 gauge only



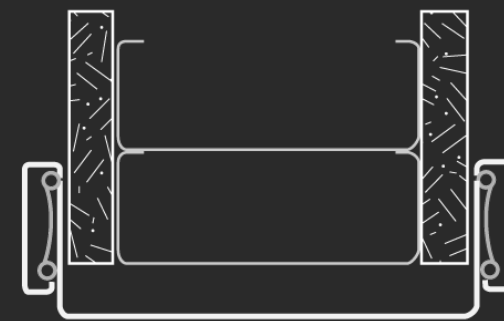
## KERFED, DOUBLE RABBIT

- 1 3/4" door only
- Smoke gasket /weatherstrip factory installed



## CASED OPENING

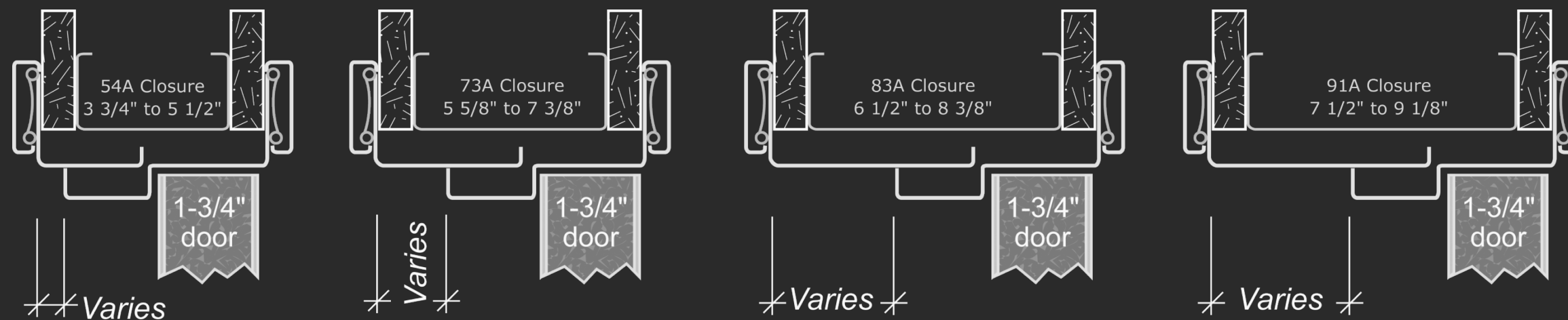
- No stop – double acting doors, pocket trim jamb
- Cased opening can be used for Barn Door Applications





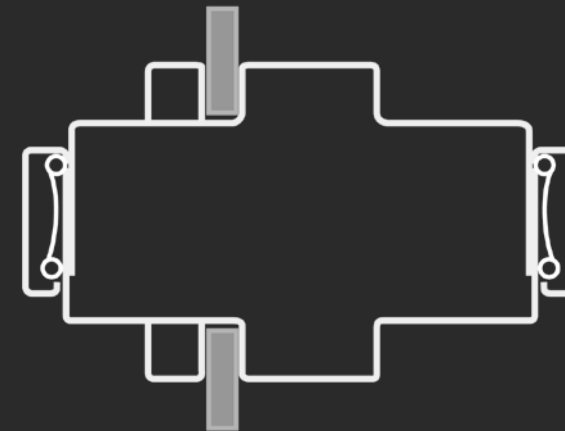
## ADJUSTABLE

- 18 gauge, 1 3/4" door only
- 54A – 3 3/4" through 5 1/2" Wall
- 73A – 5 5/8" through 7 3/8" Wall
- 83A – 6 1/2" through 8 3/8" Wall
- 91A – 7 1/2" through 9 1/8" Wall



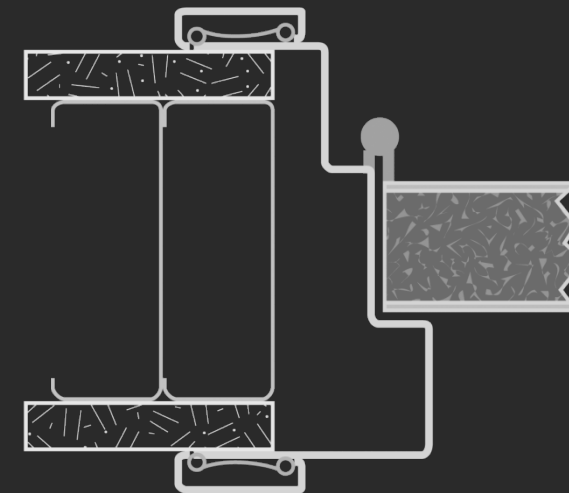
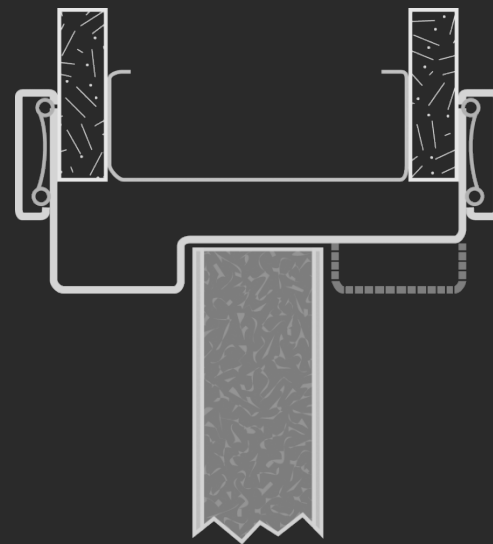
# MULLIONS

- For sidelight, borrowed light, and transom frame



## DOUBLE EGRESS FRAME

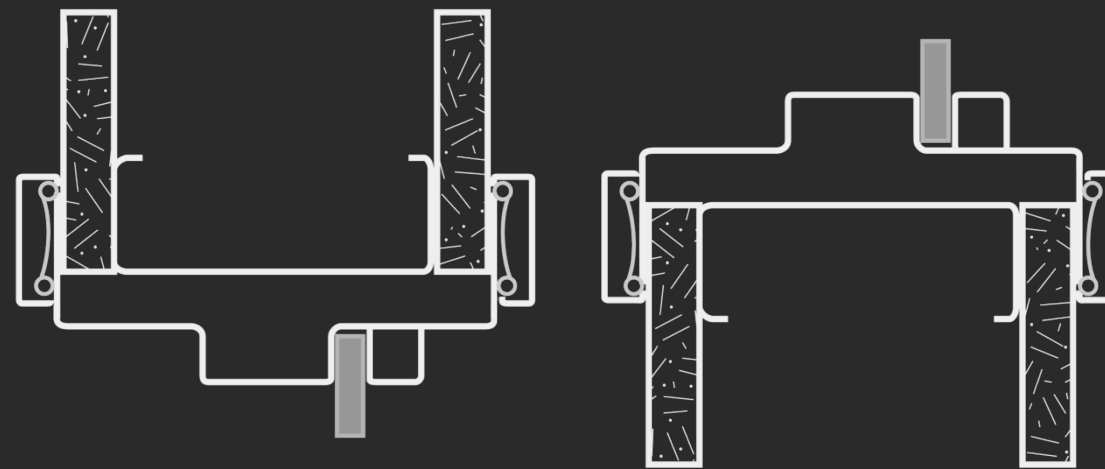
- 1 3/4" door only
- 18 gauge only





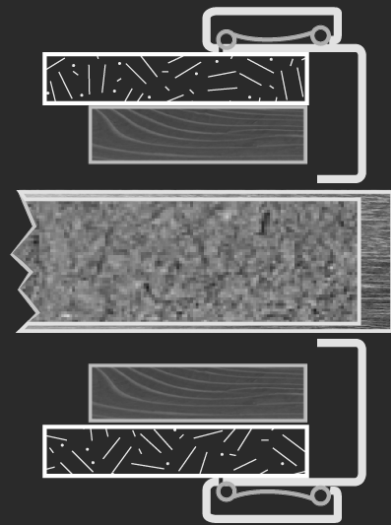
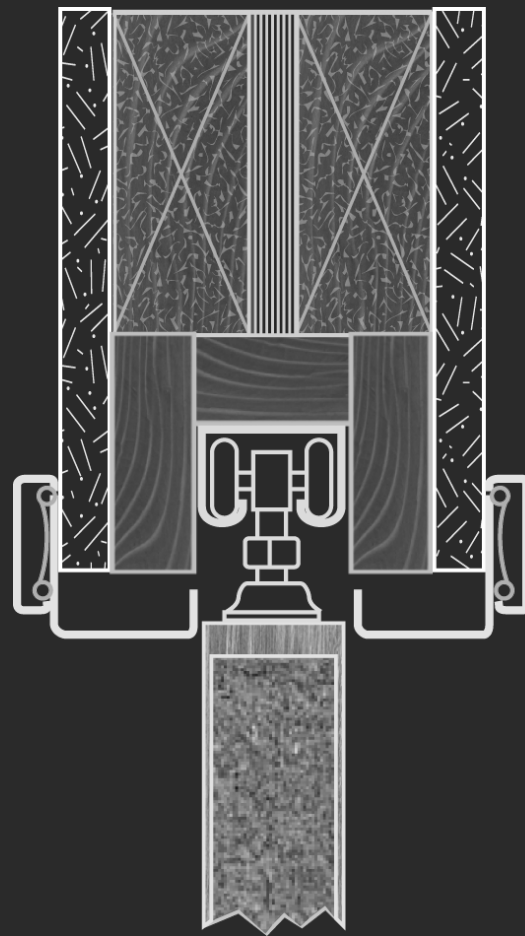
## ASYMMETRICAL BORROWED LIGHT WINDOW

- Bring light into the interior of a building, or into rooms that cannot have external windows — often from an adjoining room
- Preserve as much of the view as possible.



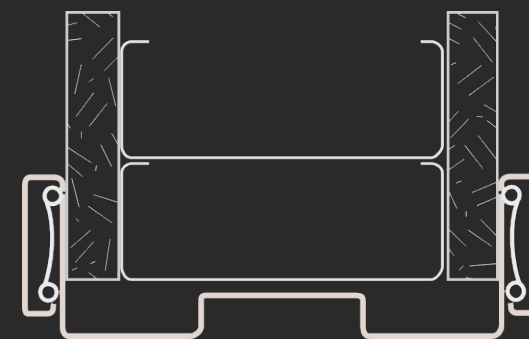
# POCKET TRIM

- J-Trim for 1 3/4" or 1 3/8" pocket doors



## INVERTED STOP POCKET JAMB

- Door closes into a recess on the jamb creating privacy desired for these applications
- The jamb can be prepared for the lock strike making the opening both private and secure



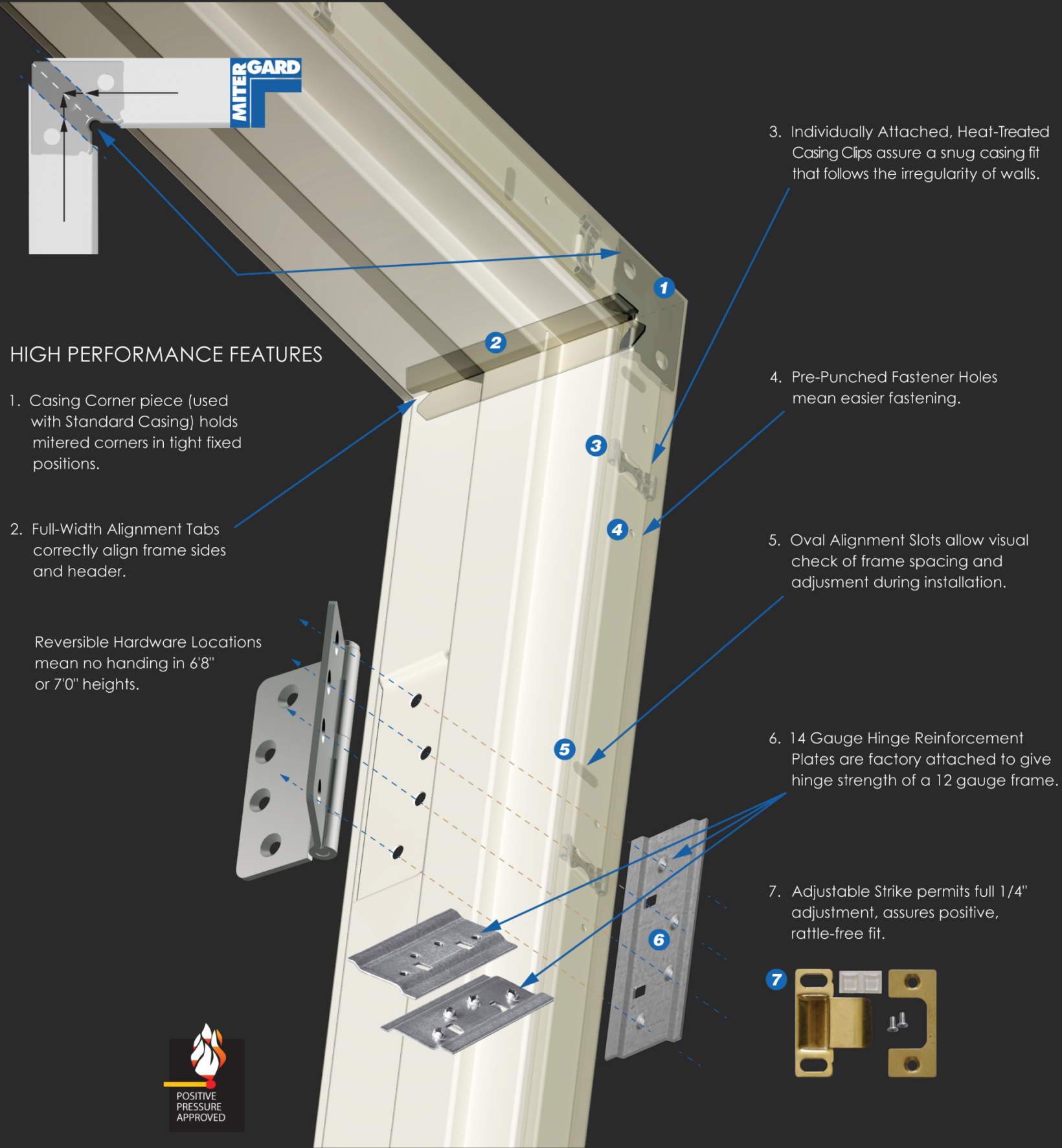


## EXTENDED SILL

- A sill face of up to 12" high is now available
- Much easier to keep the sidelight glass clean
- The flat surface meets ADA requirements



# HIGH PERFORMANCE FEATURES



## HIGH PERFORMANCE FEATURES

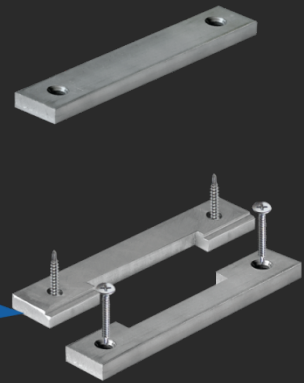
1. Casing Corner piece (used with Standard Casing) holds mitered corners in tight fixed positions.

2. Full-Width Alignment Tabs correctly align frame sides and header.

Reversible Hardware Locations mean no handing in 6'8" or 7'0" heights.

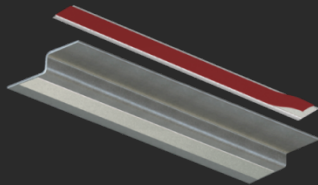
8. Reinforcement Brackets are reinforcements for door guards, closers and other hardware applications. Reversible Hardware Locations mean no handing in 6'8" heights.

Reinforcement Bracket for Regular Arm Closer

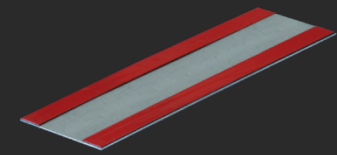


Reinforcement Bracket used as a filler when preparing frame for Electric Strike

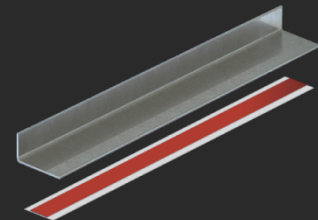
Reinforcement Bracket for Parallel Arm Closer



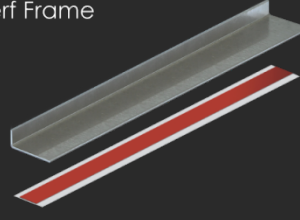
Multipurpose Reinforcement Bracket



Parallel Arm Closer Reinforcement Bracket – Fixed Throat Kerf Frame



Parallel Arm Closer Reinforcement Bracket – Adjustable Kerf Frame



With the **Total Opening Concept (TOC)** an installer can install the prefabricated frame, door and hardware at one time. This results in substantial savings.

This **Prefinished T.O.C. system** provides design flexibility and considerable sustainability benefits.



# SUMMARY

## OUTPERFORMS TRADITIONAL HOLLOW METAL FRAMES

Lateral Impact  
Security  
Total Door Weight  
Hinge Reinforcement



## UNMATCHED DESIGN FLEXIBILITY

Finishes  
Casing Options  
Borrowed lights, Transoms  
and Sidelights



## LOWER TOTAL OPENING COST

Reduces Distribution  
and Installation  
Eliminates finishing labor  
Lower material costs  
Sustainability





THANK YOU FOR YOUR TIME