



# ENTRY DOOR

## PRODUCT GUIDE

*Applications for all building markets:*





CannonBall:HNP is a leading supplier of components for the post frame and metal building industries. The original producer of round track and trolley sliding door systems, CannonBall offers a wide range of building products including entry doors, sliding door systems, Dutch doors, cupolas, horse stalls, windows, builders hardware and much more.

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# GENERAL ENTRY DOOR INFORMATION

## DOOR BASICS

### Swing

Swing defines which way the door opens and is referenced as: Left Hand Inswing, Left Hand Outswing, Right Hand Inswing, and Right Hand Outswing. (See chart on right)

### Skin

A door skin is the material that covers the entirety of the functional door panel. Skins vary in materials and colors.

### Panel

A door panel is the large, flat-surfaced, hinged component that is moved when opening / closing a complete door assembly.

### Sizes

Door sizes are referenced with call sizes. The call size is the approximate size of the panel. For example, a 3068 is approximately 3'0" wide by 6'8" high. It is important to note that the call size is only approximate dimensions.

### Recommended usage

The recommended usage of each door is the environment that door will perform the best in.

### TO DETERMINE OUTSWING - Face door from outside building

#### Left Hand Outswing

Hinges are on Left  
Opens toward you



Outside Building

#### Right Hand Outswing

Hinges are on Right  
Opens toward you



Outside Building

### TO DETERMINE INSWING - Face door from inside building

#### Left Hand Inswing

Hinges are on Left  
Opens toward you



Inside Building

#### Right Hand Inswing

Hinges are on Right  
Opens toward you



Inside Building

## ACCESSORIES / OPTIONS

Accessory items and door options can be factory-installed to ensure proper installation and functionality upon receipt of product.

### Locksets

Locksets come in different grade levels (1-3) depending on how often the door is going to be used. Grade 1 is for very high frequency use while grade 3 is for general use.



### Deadbolt

Deadbolts are an additional locking mechanism that increase the difficulty to force the door open when locked.



### Push/pull

The push/pull sets allow the door to have a protected, designated area to push and pull on the door when operating. These are generally used in place of a lockset.



### Panic bar

A panic bar is used on the part of the door that swings out. It spans the width of the door and makes the door easier to open as pushing on it releases the latch and opens the door.



### Nailing flange

The nailing flange is part of the door frame and makes the door easier to install.

### Window lites

Window lights come in a variety of sizes and styles and have a wide range of reasons for use. Typically they are used to allow additional light into the building or to see through the door.



### Kick plate

A kick plate is used on the bottom of a door to protect the door's finish.



### Door closer

A door closer is a mechanism attached at the top of the door that closes the door on its own without slamming shut.



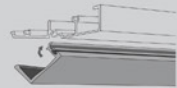
### Hinges

Our standard hinge is a Stainless NRP hinge with security tab.



### Snap cap

Snap caps are attached to the header of the door to provide a better seal for improved weathersealing.



## GLOSSARY OF TERMS

**Universal Swing** A door that can be installed in any of the four swing configurations without physical product changes.

**Field Reversible** A door that can be installed in any of the four swing configurations after receiving necessary physical product changes.

**Header/Threshold** A header/threshold is the part of the frame running across the top and bottom between the jambs.

**Prep for Panic** The door has special blocking inside that allows a panic bar to be properly and securely installed

**Prep for Closer** The door has special blocking inside that allows a door closer to be properly and securely installed

**Prep for Deadbolt** The door has special blocking inside that reinforces the area around a deadbolt for proper and secure usage. The blocking and panel is also pre-punched for the deadbolt.

**Door Sweep** A door sweep is on the top and bottom of the door panel. These help seal the door against weather intrusion.

**Jamb Weatherstrip** A jamb weatherstrip functions the same as a door sweep but is attached to the door jamb.

# 1700- /1800-SERIES

## 1700-SERIES (1734, 1741, 1751 & 1795 Models)

### Economical rolled edge utility door.

A general utility door for agricultural buildings, our 1700-Series doors have the features you need. With a panel that is 1-3/4" thick, you can easily use standard door accessories. These pre-painted, pre-hung doors feature a rolled-edge panel, 24-gauge (1741 & 1751) or 26-gauge (1734 & 1795) steel skins and a polyurethane core — a sturdy, durable choice.

### FEATURES:

- An economical solution for general utility agricultural use.
- Pre-hung and pre-painted for fast installation and a finished look.
- Standard 1-3/4" thick panel easily works with window lites, door closers & other accessories -- and factory installation of options saves on job site hassles.



1700-Series  
(1734 and 1795)

## 1800-SERIES (1852, 1853, 1872 & 1873 Models)

### Economical capped edge utility door.

With its sturdy capped edge panel, 1-5/8" thickness and multiple skin choices – from 30-gauge steel to fiberglass – our 1800-Series doors offer a wide range of economical options for agricultural environments.

### FEATURES:

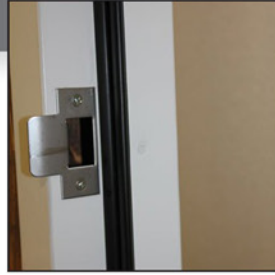
- 30-gauge steel, aluminum or fiberglass panel skins for various conditions, such as moderate moisture or livestock containment.
- Prefinished white panel with mill or white frame for a low maintenance door that doesn't require painting.
- Options include window lites specifically made for this door thickness.



1800-Series  
(1852, 1853, 1872 and 1873)



The rolled edge on the 1700-Series gives the door a commercial and finished look.



The 1795 has a dual contact jamb weatherstrip for improved weather sealing.



The 1800-Series features a capped edge panel for enhanced durability.

**1700 & 1800-SERIES DOORS TECHNICAL SPECIFICATIONS**

FEATURE	MODEL					
	1734	1741	1751	1795	1852/1872	1853/1873
<b>DOOR PANEL</b>						
Edge Type	Rolled	Rolled	Rolled	Rolled	Capped	Capped
Thickness	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-5/8"	1-5/8"
Skin Type	26 ga. Steel (40 size is 24 ga. smooth)	24 ga. Steel	24 ga. Steel	26 ga. Steel (40 size is 24 ga. smooth)	30 ga. Steel (AL or Fiberglass Option)	30 ga. Steel (AL or Fiberglass Option)
Textured skin	✓	✓	✓	✓	✓	✓
Standard Color	White	White	White	White	White	White
Pre-painted & Pre-hung	✓	✓	✓	✓	✓	✓
Universal Swing	✓	✓	✓	✓	✓	✓
No Wood Blocking	✓	✓	✓	✓		
Polyurethane Insulated Core	✓	✓	✓	✓	✓	✓
Door Sweeps Top & Bottom	Dual Bulb	Three-fin Bulb	Three-fin Bulb	Dual Bulb	Pile Weatherstrip	Pile Weatherstrip
<b>DOOR JAMB</b>						
Depth	1-15/16"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"
Material	Aluminum	Aluminum	16 ga. Steel	16 ga. Steel	Aluminum	Aluminum
Finish	White	White	White	White	White	Mill
Pre-painted	✓	✓	✓	✓	✓	
Weathersealing	Pile Weatherstrip	Adhesive Strip	Adhesive Strip	Dual Contact	Pile Weatherstrip	Pile Weatherstrip
ADA Compliant Header/Threshold	✓			✓	N/A	N/A
Standard Nailing Flange	✓				1872 Only	1873 Only
Adjustable Strike Plate	✓	✓	✓	✓	✓	✓
<b>LOCKSET FEATURES</b>						
Lockset Insert	Non-Collapsible Nylon	Non-Collapsible Nylon	Non-Collapsible Nylon	Non-Collapsible Nylon	Wood	Wood
2-3/4" Backset	✓	✓	✓	✓	✓	✓
2-1/8" Bore	✓	✓	✓	✓	✓	✓
<b>HINGES</b>						
4x4" Stainless NRP Hinges	✓	✓	✓	✓	✓	✓
<b>DOOR SIZE</b>						
2868	Standard	Standard	Standard	Standard	Standard	Standard
3068	Standard	Standard	Standard	Standard	Standard	Standard
4068	Standard	Standard	Standard	Standard	Standard	Standard
6068	Custom Option	Standard	Standard	Standard	Standard	Standard
<b>OPTIONS / ACCESSORIES</b>						
Accessories Factory Installed	✓	✓	✓	✓	✓	✓
Subframe for Steel Buildings				✓		
Snap Cap					✓	✓
J Trim Header					✓	✓
Prep for Panic and closer	✓	✓	✓	✓	✓	✓
Prep for Deadbolt	✓	✓	✓	✓	✓	✓
Standard Window Lites (See chart on back page for options)	✓	✓	✓	✓	✓	✓



# 1900-SERIES

Recommended Use

- Agriculture
- Commercial
- Metal

## 1900-SERIES (1920 & 1934 Models)

**Multi-use, high aesthetics and top quality.**

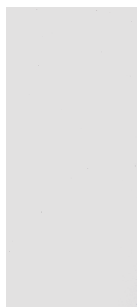
For builders in need of professional looks and field adaptability, the 1900-Series doors cover all bets for agriculture, commercial and metal building projects. Its 24-gauge skin and 16-gauge steel jamb offer durable security -- while the wide variety of panel embossment options provide appealing matches to interior door choices.

- Galvanized 24-gauge steel panel -- with 20- and 18-gauge options -- provides strength, stability and rust protection.
- 16-gauge galvanized steel jambs offer added durability and easy installation.
- Full steel-edge perimeters outfit the door with a Grade 40 security rating for added security and peace of mind.
- Door jamb weatherstripping is field-replaceable and does not require door panel removal.
- Lockset locations and prep are designed to meet ANSI industry standards with a 4"x10" composite insert, 1" diameter edge bore and 2-1/8" diameter face bore at 2-3/4" backset.
- Superior materials resist cracking, splitting, warping, twisting and rotting.
- Each door panel is fully insulated with environmentally friendly polyurethane foam and carries a 0.17 U-factor for high energy efficiency.
- Match your door panels to interior doors with a variety of embossment options.
- 1920 models allow for easy swing direction changes during installation.
- 1934 models come with solid headers and ADA-compliant thresholds for use in high traffic, wheelchair accessible entrances.



1900-Series with 2 Panel Arch Top Plank embossment (1920 and 1934 models)

### Additional Panel Embossment Choices



Flush/None



Craftsman 3 Panel



Crossbuck



True 4 Panel



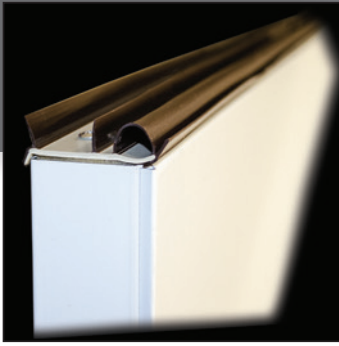
6 Panel



Cottage Style



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The 1900-Series features a 3 fin bulb door sweep for enhanced weather sealing capability.



1934 models come equipped with 16-ga. solid headers for increased durability.



1900-Series hinges mount to door panel surfaces for easy swing changes -- even with pre-installed window lites.



The Kerf Encapsulated Foam weatherstrip on the jamb is field replaceable.

1900-SERIES DOORS TECHNICAL SPECIFICATIONS		
FEATURE	MODEL	
	1920	1934
<b>DOOR PANEL</b>		
Heavy Duty Construction	✓	✓
Edge Type	Rolled	Rolled
Thickness	1-3/4"	1-3/4"
Fire-Rated	N/A	Optional
Skin Type	24 ga. Steel	24 ga. Steel (20 & 18 ga. Option)
Universal Swing	✓	
Solid Polyurethane core U factor of 0.17	✓	✓
6 Embossing Options	✓	✓
Standard Color	White	White
Three Fin Bulb Sweep	✓	✓
<b>DOOR JAMB</b>		
Depth	3-1/2"	3-1/2"
Material	16 ga. Steel	16 ga. Steel
Pre-painted finish	✓	✓
Weathersealing Kerf Encapsulated Foam - Replaceable	✓	✓
Header Type	Universal Header/Threshold	16 ga. Steel Solid Header
ADA Compliant Threshold		✓
<b>LOCKSET FEATURES</b>		
Molded Wood Resin Composite Lockset Insert	✓	✓
2-3/4" Backset	✓	✓
2-1/8" Bore	✓	✓
<b>HINGES</b>		
4x4" Stainless NRP Hinges	✓	✓
<b>DOOR SIZE</b> SEE CHART ON BACK FOR OUT-TO-OUT DIMENSIONS		
2668	Standard	Standard
2868	Standard	Standard
3068	Standard	Standard
3668	Standard	Standard
6068	Standard	Standard
<b>OPTIONS / ACCESSORIES</b>		
Accessories Factory Installed	✓	✓
Prep for Panic and Closer	Dual 12 ga. Reinforcement	Dual 12 ga. Reinforcement
Prep for Deadbolt	✓	✓
Header Weatherseal	Standard Snap Cap	Standard Solid Header
Standard Window Lites (See chart on back page for options)	✓	✓

# 2000-SERIES

## 2004-SERIES (2004AL, 2004AF, 2004ST & 2004STB MODELS)

**High adaptability for non-code projects.**

Our 2004-Series doors add flexibility and functionality for your projects. With models designed to fit several wall thicknesses and others offering a thermal break, these quality doors arrive pre-painted, install easily and provide a professional, finished look.

### FEATURES:

- Customizable features allow for proper fit in a wide variety of wall opening sizes.
- Door panels sport a rolled-edge look, 1-3/4" thickness and arrive pre-hung & pre-painted for easy installation.
- Window lites and other accessories can be ordered factory-installed to reduce job site issues.
- Thermally broken STB models prevent frost & condensation buildup on interior door panels and jambs.
- Choose adjustable frame AF models to tackle thick wall projects.

2004-Series

### Recommended Use



## 2005- /2006-SERIES (HD, TB, TBSF & SF MODELS)

**Thermal broken models for commercial functionality.**

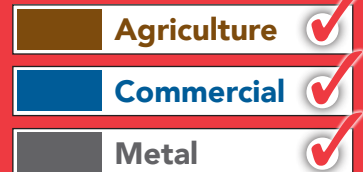
Ideal for industrial and light commercial applications, the 2005- & 2006-Series doors offer a robust combination of 24 gauge steel skin panels and solid headers (see technical specifications). This series also features models with full thermal break, doors to fit masonry settings and a wide range of standard sizing options.

### FEATURES:

- Thermally broken models prevent temperature transfer, condensation and frost.
- Mounting clips and sub frames are available for easy masonry and steel building installations.
- Solid headers on 2006-Series models increase durability and security.
- Door panels are prepped with additional reinforcement for panic bar, closer and crash-chain option addition.
- A wide range of standard door sizes meet project entrance variety needs.

2005- / 2006-Series

### Recommended Use





# 2000-SERIES

Contact CannonBall Sales or Customer Service for details on:

- Corrosion-proof doors for high moisture settings and livestock confinement.
- Entry door additions to sliding door configurations.

## 2007-SERIES

**Fire rated to meet building codes.**

Building codes demand resilient, exceptional products -- and the 2007-Series is up to the challenge. Certified with a B-label fire rating, the 2007-Series doors also offer flex steel framing to allow for adjustment and a firm fit for years to come.

- B-label fire rating certified.
- Adjustable frames accommodate various wall thicknesses.
- The rolled-edge, 1-3/4" thick door panel has factory install options like window lites and other accessories for job site convenience. \*

\*Window lite sizing for fire-rated doors must be 100 square inches or less

### Recommended Use

- Agriculture
- Commercial
- Metal



2007-Series

## 2008-SERIES

**Highest durability for commercial and metal building use.**

Known for robustness and security, the 2008-Series doors are great choices for high traffic entrances on building code projects. Durable features include 20-gauge steel skin panels (18-gauge option) matched with a robust 7-gauge hinge reinforcement and 14-gauge reinforced panic, closer and deadbolt prep.

### FEATURES:

- Ultra-thick panel design with 20- and 18-gauge steel options.
- Frames & sub frames created specifically for metal buildings.
- B or A label fire ratings available.
- Fire-rated window lites and other accessories available as factory-installed options.
- Pre-painted in white or bronze to match your project needs.

### Recommended Use

- Agriculture
- Commercial
- Metal



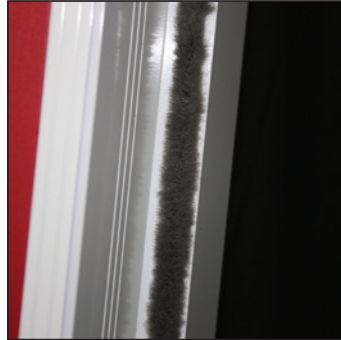
2008-Series

# 2000-SERIES

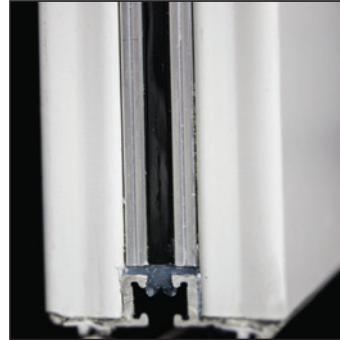
## Features and Specifications



The rolled edge of the 2000-Series doors gives them a commercial and finished look.



The pile weatherstrip on the 2004AL helps to reduce heat loss/gain.



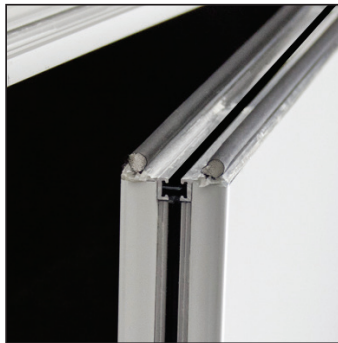
The thermal break of the 2004STB and 2005/2006TB & TBSF prevent frost buildup on the inside of the building.



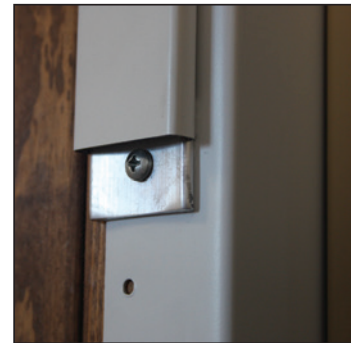
With a heavy duty 6 fin door sweep, the 2007-Series doors has a great seal on the threshold.



With dual contact weatherstrip and a thermally broken threshold, the 2004STB and 2005/2006TB & TBSF are ideal for weathersealing.



Dual bulb top / bottom sweeps on the 2004-, 2005- & 2006-Series doors improve weather sealing.



2007-Series doors offer optional casing kits for adjustable jamb components.

### 2000-SERIES DOORS TECHNICAL SPECIFICATIONS

FEATURE	MODEL			
	2004 (AL, AF, STB, ST)	2005/2006 (HD, TB, TBSF, SF)	2007	2008XL
<b>DOOR PANEL</b>				
Panel/Edge Type	Rolled	Rolled	Rolled	Hollow Metal
Thickness	1-3/4"	1-3/4"	1-3/4"	1-3/4"
Skin Type	26 ga. Steel	24 ga. Steel	24 ga. Steel	20 ga. Steel (18 ga. Option)
Textured Skin	✓			
Insulated Core	Polyurethane	Polyurethane	Polyurethane	Polystyrene (Polyurethane Option)
Standard Panel Colors	White, Brown, Clay	White, Bronze	White	White, Bronze
Pre-Painted & Pre-hung	✓	✓	✓	✓
Universal Swing	All But AF Model	2005 Only		
Panel Embossment (on 30 widths only)				
6 Panel Skin Option	✓	✓		✓
Cross Buck Skin Option	✓	✓		
Thermally Broken	STB Only	TB & TBSF Only		
Fire Rated			B-Label	A or B-Label
Full Perimeter Weatherstrip	✓	✓	✓	✓
No Wood Blocking	✓	✓		✓
Door Sweep	Dual Bulb Top & Bottom	Dual Bulb Top & Bottom	Heavy Duty 6 Fin	Concealed Vinyl



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2000-SERIES DOORS TECHNICAL SPECIFICATIONS				
FEATURE	MODEL			
	2004 (AL, AF, STB, ST)	2005/2006 (HD, TB, TBSF, SF)	2007	2008XL
<b>DOOR JAMB</b>				
Depth	AL & AF = 3-1/2" ST & STB = 3-5/8"	3-5/8"	4-1/2" - 7-1/2"	5-3/4" or 8-1/4"
Adjustable Frame	AF Model Up to 8"		✓	
Two Piece Frame	AF Only		✓	
Material				
Aluminum Frame	AL & AF Only			
Gauge of Steel Frame	ST & STB = 16 ga	16 Gauge	18 Gauge	16 Gauge
Finish	White, Brown, Clay, Mill	White, Bronze	White	White, Bronze
Pre-Painted	✓	✓	Primer	✓
Weathersealing	ST & STB Dual Contact AL Pile, AF Single Bulb	Full Perimeter	Full Perimeter Kerf	Kerf or Adhesive
Solid Header		2006 Only	✓	✓
Snap Cap Included	ST & STB Only	2005 Only		
ADA Compliant Header/Threshold	ST & STB Only	✓	✓	✓
Adjustable Strike Plate	✓	✓		
<b>LOCKSET FEATURES</b>				
Lockset Insert	Non-Collapsible Nylon	Non-Collapsible Nylon	Composite Wood	Heavy Duty Steel Reinforced
2-3/4" Backset	✓	✓	✓	✓
2-1/8" Bore	✓	✓	✓	✓
<b>HINGES</b>				
4x4" Stainless NRP Hinges	✓	✓	✓	
4.5"x4.5" Ball Bearing Steel Hinges				With 7 Gauge Reinforcement
<b>DOOR SIZE</b> SEE CHART ON BACK FOR OUT-TO-OUT DIMENSIONS				
2868	Standard	Custom Option	N/A	N/A
3068	Standard	Standard	Standard	Standard
3070	Custom Option	Standard	Standard	Standard
4068	Standard	Standard	N/A	Custom Option
4070	Custom Option	Standard	N/A	Standard
6068	Standard	Standard	N/A	Standard
6070	Custom Option	Standard	N/A	Standard
8070	Custom Option	Custom Option	N/A	Standard
<b>OPTIONS / ACCESSORIES</b>				
Accessories Factory Installed	✓	✓	✓	✓
Subframe Available		✓		✓
Snap Cap	AL Only			
Nailing Flange	Option	2005 Only	Standard	
Prep for Panic and Closer	✓	✓	✓	14 ga. Reinforced
Prep for Deadbolt	✓	✓	✓	14 ga. Reinforced
Casing Kit			✓	
Compliant with ANSI & SDI Standards				✓
Adj. Masonry Mounting Clips Included		SF & TBSF Only		✓
Window Lites				
Standard Options (See chart on back page for options)	✓	✓	✓	
10x10 Fire Rated Window Lite	N/A	N/A	N/A	✓
5x20 Fire Rated Window Lite	N/A	N/A	N/A	✓
24x30 Window Lite	N/A	N/A	N/A	✓

## OUT-TO-OUT DIMENSIONS

CALL SIZE*	DOOR MODEL OR SERIES (IF LISTED AS SERIES, ALL MODELS IN THAT SERIES HAVE SAME DIMENSIONS)													
	1734	1741	1751	1795	1822	1852, 1853 1872, 1873	1900- Series	2004AL	2004AF	2004ST & 2004STB	2005- Series	2006- Series	2007	2008
<b>68 HEIGHT</b>														
2868	32-13/16" x 80-5/8"					33-9/16" x 81-3/4"	36" x 81-5/16"	33-5/16" x 81-1/8"		34-5/8" x 80-5/8"	35-13/16" x 80-5/8"		N/A	N/A
3068	36-13/16" x 80-5/8"	37-9/16" x 81-3/16"	38" x 81-3/16"	39-13/16" x 80-5/8"	37-3/16" x 81-5/16"	37-9/16" x 81-3/4"	40" x 81-5/16"	37-5/16" x 81-1/8"	37-1/16" x 80-5/8"	38-5/8" x 80-5/8"	39-13/16" x 80-5/8"	39-13/16" x 82"	36-1/2" x 80-3/8"	40" x 80"
4068	46-13/16" x 80-5/8"	49-9/16" x 81-3/16"	50" x 81-3/16"	49-13/16" x 80-5/8"	49-3/16" x 81-5/16"	49-9/16" x 81-3/4"	52" x 81-5/16"	47-5/16" x 81-1/8"	47-1/16" x 80-5/8"	48-5/8" x 80-5/8"	49-13/16" x 80-5/8"	49-13/16" x 82"	N/A	
6068				69-13/16" x 80-5/8"		74-3/16" x 81-3/4"	77-1/4" x 81-5/16"	74-5/16" x 81-1/8"	74-1/16" x 80-5/8"	74-7/8" x 81-3/8"	76-3/16" x 82"	76-3/16" x 82"	N/A	76" x 82"
<b>70 HEIGHT</b>														
3070											39-13/16" x 84-5/8"	39-13/16" x 86"	36" x 84-3/8"	40" x 86"
4070											49-13/16" x 84-5/8"	49-13/16" x 86"	N/A	52" x 86"
6070											76-3/16" x 86"	76-3/16" x 86"	N/A	76" x 86"
8070													N/A	100" x 86"

## STANDARD WINDOW LITE SIZES

WINDOW LITE STYLE AND SIZE	OPTIONS				
	1 Lite	9 Lite	Insulated Glass	Non-Insulated Glass	Thickness
<b>IMI FRAME</b>					
22x36"	✓	✓	✓		1-5/8" or 1-3/4"
<b>ALUMINUM FRAME</b>					
6x42"	✓		✓	✓	1-5/8" or 1-3/4"
16x16"	✓		✓		1-5/8" or 1-3/4"
20x24"	✓	✓	✓	✓	1-5/8" or 1-3/4"
22x36"	✓	✓	✓		1-5/8" or 1-3/4"
22x64"	✓				1-5/8" or 1-3/4"
<b>PVC FRAME</b>					
16x16"	✓		✓		1-3/4"
20x24"	✓	✓	✓		1-3/4"
22x30"	✓	✓	✓		1-3/4"
22x36"	✓	✓	✓		1-3/4"
22x64"	✓		✓		1-3/4"

