

INPACT door systems

Integrated door solutions

door solution

UPDATE



Market needs

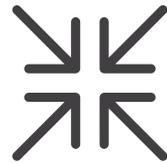
Why an integrated door system?



Professional installation

- Reduces on-site labor costs for trained or skilled labor

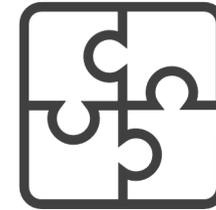
(Who: GC, Architects)



Efficient system processing

- ONE specification
ONE order
ONE acknowledgement
ONE installation
ONE shipment
ONE invoice

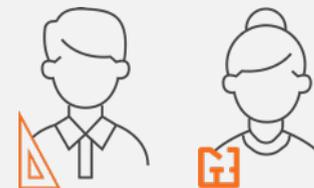
(Who: GC, CFO/Financial, Distributor)



Aesthetic integrated assembly

- Provides clean sight lines – blending assembly into building design

(Who: Architects, Interior Designers)



Codes and standards

- Meets local code requirements for single and double door applications
- Meets California Building Code for 44-inch clear width for hospital means of egress doors

(Who: Architects, Spec Writers, Facility Managers)



INPACT integrated door system

An Allegion integrated door system provides:

- Door and hardware including, but not limited to:
 - Low profile exit device and trim
 - Hinge or pivot
 - Closer
- Aesthetically pleasing installation
- 12 most common applications as pre-configured solution sets
- Solutions that meet your needs
 - Pre-configured solutions for most common applications
 - Custom hardware solutions available a la carte
- Easily specified as integrated door and hardware assembly
- Proven, reliable industry-leading brands to meet an opening's aesthetic and functional requirements

IVES ■ **LCN** ■ **STEELCRAFT** ■ **VON DUPRIN**



Target markets and common applications

Target markets



Healthcare



Multi-family



Higher education



Hospitality



Office

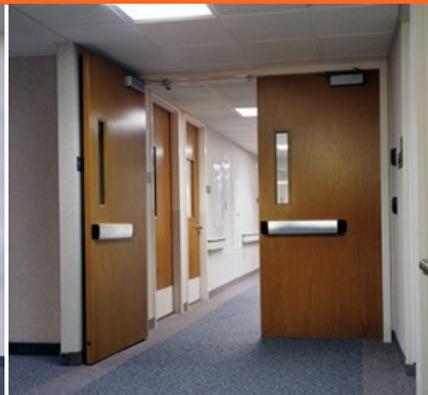


K-12

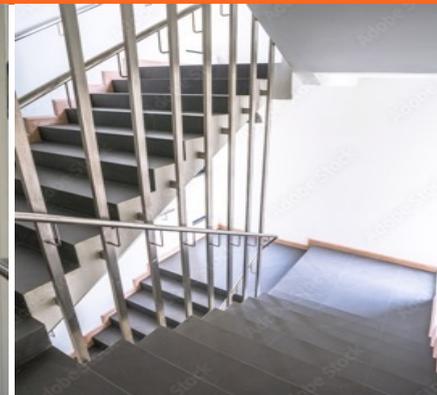
Common applications



Elevator lobby doors



Cross corridors



Stairwell



Assembly areas

Considerations for an integrated door system:

Does the application require:

1. The opening to be ANSI/BHMA 156.3 certified?
2. Meeting clear width requirements?
3. In addition to aesthetics, durability to withstand use and abuse impacts from hospital gurneys, hospitality carts and custodial carts?

Existing installations



Current facilities

- Northwestern Memorial – Chicago
- San Francisco International Airport – San Francisco
- UCSF Medical Facilities – San Francisco
- Marriott Marquis – San Francisco
- Museum of Fine Arts – Boston

Peace of mind from brands you trust



- 
- 1**
- ONE specification
 - ONE order
 - ONE acknowledgement
 - ONE installation
 - ONE shipment
 - ONE invoice

IVES ■ LCN ■ STEELCRAFT ■ VON DUPRIN

Ordering systems or a la carte

Choose from the best products and order the appropriate configuration that meets your architectural and functional needs.

Select individually from guided order form or have the comfort of choosing from 12 pre-defined product packages. Pre-defined product packages include application prints, including dimensions, and a list of products in frequently used styles and opening sizes.

	System sets available												A la carte
	D1-D4= "Double Egress"				P1-P4 = "Same Swing"				S1-S4 = "Single"				From Steelcraft
	D1 90x90	D2 90x90	D3 90x90	D4 90x180	P1 90x90	P2 90x90	P3 180x180	P4 180x180	S1 90x90	S2 90x90	S3 180x180	S4 180x180	
Steelcraft doors													
L Series	■	■	■	■	■	■	■	■	■	■	■	■	■
T Series	■	■	■	■	■	■	■	■	■	■	■	■	■
Von Duprin exit devices													
94/9547 Series CVR with LBR option	■	■	■	■	■	■	■	■	■	■	■	■	■
94/9575 Series Mortise exit	-	-	-	-	-	-	-	-	■	■	■	■	■
LCN closers													
4040XP Closer	-	-	-	■	-	-	■	■	-	-	■	■	■
4000T Wall mounted closer	■	■	■	■	■	■	-	-	■	■	-	-	■
LCN magnetic holders													
SEM 7850 Magnetic holder	■	■	■	■	■	■	■	■	■	■	■	■	■
IVES hinges & pivots													
700 Stainless pin and barrel continuous	■	-	-	■	-	-	■	-	■	-	■	-	■
711BSC Beveled swing clear continuous	-	■	-	-	■	-	-	■	-	■	-	■	■
91105F Pocket pivot	-	-	■	-	-	■	-	-	-	-	-	-	■
224HD AL geared continuous	-	-	-	-	-	-	-	-	-	-	-	-	■
224XY AL geared continuous	-	-	-	-	-	-	-	-	-	-	-	-	■
041XY AL geared swing clear continuous	-	-	-	-	-	-	-	-	-	-	-	-	■
040XY AL geared wide throw continuous	-	-	-	■	-	-	-	-	-	-	-	-	■
5BB1HW 4.5" or 5" butt hinges	-	-	-	-	-	-	-	-	-	-	-	-	■
5BB1HWBSC 4.5" or 5" butt hinges	-	-	-	-	-	-	-	-	-	-	-	-	■
*D4 is shown with 2 different hinges to accommodate a wide throw condition using an available aluminum geared 040XY. Typically hinges should be the same material.													
Steelcraft frames													
FE Series (special profile for swing clear or pocket pivot)	■	■	■	■	-	-	-	-	-	-	-	-	■
F Series (double or single rabbet)	-	-	-	-	■	■	■	■	■	■	■	■	■

NOTES:

- 1 For system sets All hardware is installed or shipped with the door. Frame is ordered separately since frames are typically required earlier.
- 2 If ordering a la carte, changes to frames, hinges or closers may change your wall configuration, opening size and clear opening width.
- 3 Frames are not part of the Integrated System. They ship separately, ordered prior to the Steelcraft door system and chosen per specific application.

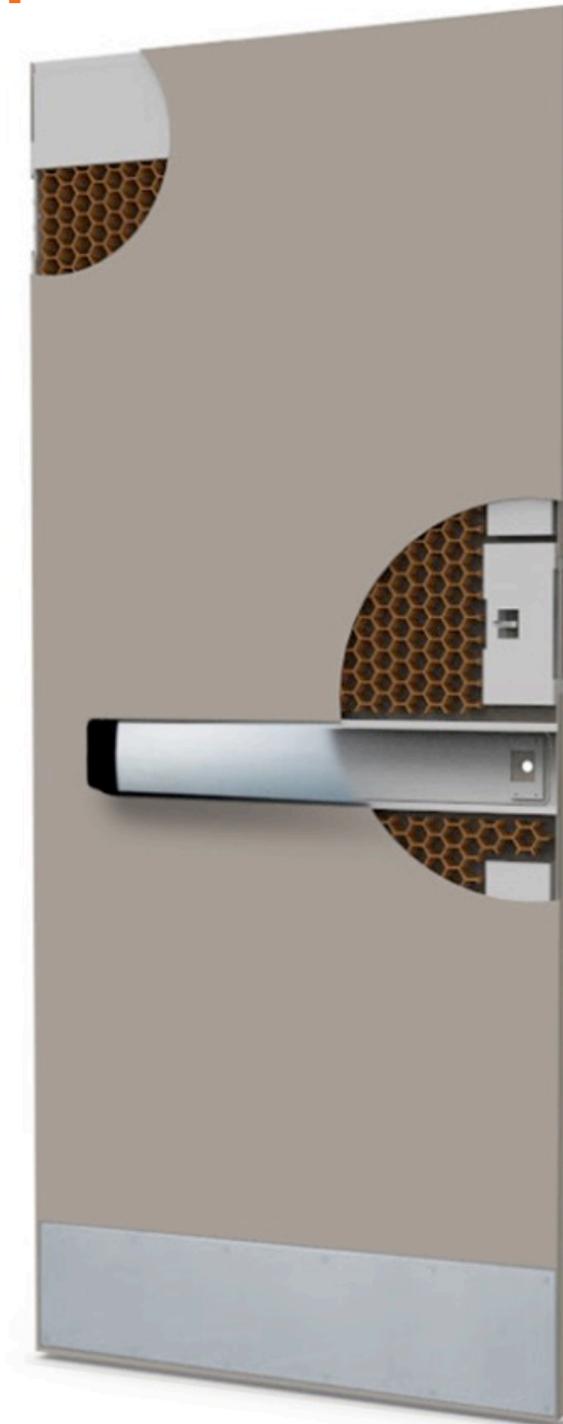


Allegion INPACT door system

Allegion has identified 12 of the most common applications and grouped them into 3 types of openings.

- Double egress with doors swinging in opposite directions
- Pair of doors with doors swinging the same direction
- Single doors

Depending on the opening requirements, there are 4 different hardware sets identified for each opening type. These sets are detailed in the following slides.



Steelcraft doors

- L Series
- T Series temp rise core

LCN closers

- 4040XP
- 4000T wall mounted

LCN magnetic holders

- LCN SEM 7850 magnetic holder

Von Duprin exit devices

- 9447/9547 INPACT™ Concealed vertical
- 9475/9575 INPACT mortise device

Ives hinges or pivots

- Architectural/butt
- Continuous
- Swing clear
- Pocket pivot

Double egress

Common applications

D1



D4



D3 (bird's-eye view)



Options

- D1: 700 full mortise pin and barrel
- D2: 711BSC beveled swing clear*
- D3: 91105SF pocket pivot*
- D4: 700 x 040XY wide throw

*Only difference is hinge variation of D1.

Set #	Application (degrees)	Steelcraft door	LCN closer	LCN magnetic holder	Von Duprin exit device	Ives hinge or pivot	Steelcraft frame*
D1	90 x 90	INPACT L18 HC Core	4000T wall-mounted	SEM 7850	94/9547 CVR x EO	700 Full mortise pin and barrel, stainless	FE16
D2	90 x 90	INPACT L18 HC Core	4000T wall-mounted	SEM 7850	94/9547 CVR x EO	711BSC Beveled swing clear pin and barrel, stainless	FE16 special profile
D3	90 x 90	INPACT L18 HC Core	4000T wall-mounted	SEM 7850	94/9547 CVR x EO	71105F Pocket pivot	FE14 special profile
D4	90 x 180	INPACT L18 HC Core	4000T wall-mounted x 4040XP	SEM 7850	94/9547 CVR x EO	700 Full mortise pin and barrel x 040XY wide throw	FE16

The most common series for each set is shown. Depending on your opening requirement, additional hardware may be needed.

Set numbers are hyperlinked to system set drawings and illustrations.

*Frames are not included in the system and would need to be ordered separately.

Pair – Same swing

Common applications

P1



P1



P1 (bird's-eye view)



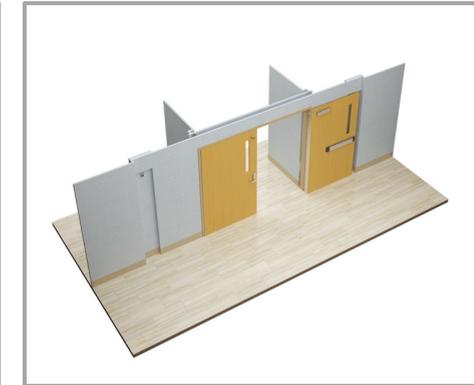
P3



P3



P3 (bird's-eye view)



Options

- P1: 711BSC beveled swing clear * Only difference is hinge variation of P1.
- P2: 91105SF pocket pivot*

Options

- P3: 700 full mortise pin and barrel * Only difference is hinge variation of P3.
- P4: 711BSC beveled swing clear*

Set #	Application (degrees)	Steelcraft door	LCN closer	LCN magnetic holder	Von Duprin exit device	Ives hinge or pivot	Steelcraft frame*
P1	90 x 90	INPACT L18 HC core	4000T wall-mounted	SEM 7850	94/9547 CVR	711BSC Beveled swing clear pin and barrel, stainless	F16 Double rabbet
P2	90 x 90	INPACT L18 HC core	4000T wall-mounted	SEM 7850	94/9547 CVR	91105F Pocket pivot	F14 Double rabbet
P3	180 x 180	INPACT L18 HC core	4040XP R w/PA	SEM 7850	94/9547 CVR	700 Full mortise pin and barrel, stainless	F16 Double rabbet
P4	180 x 180	INPACT L18 HC core	4040XP R w/PA	SEM 7850	94/9547 CVR	711BSC Beveled swing clear pin and barrel, stainless	F16 Double rabbet

The most common series for each set is shown. Depending on your opening requirement, additional hardware may be needed.

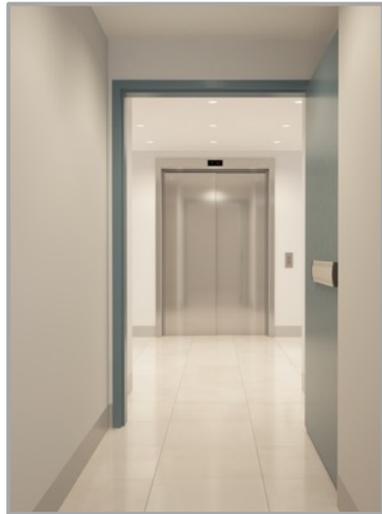
Set numbers are hyperlinked to system set drawings and illustrations.

*Frames are not included in the system and would need to be ordered separately.

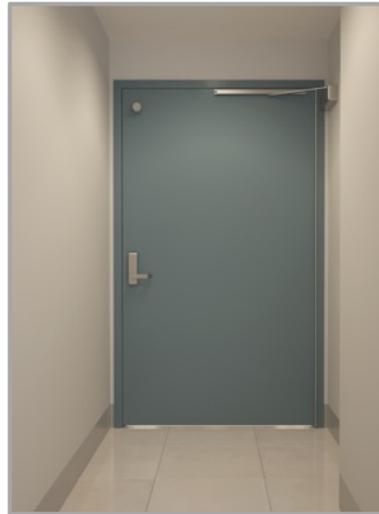
Singles

Common applications

S1



S2



S3



S4



S2 (bird's-eye view)



Options

- S1: 700 full mortise pin and barrel
- S2: 711BSC beveled swing clear
- S3: 700 full mortise pin and barrel
- S4: 711BSC beveled swing clear

Set #	Application (degrees)	Steelcraft door	LCN closer	LCN magnetic holder	Von Duprin exit device	Ives hinge or pivot	Steelcraft frame*
S1	90	INPACT L18 HC/T18 Temp	4000T wall-mounted	SEM 7850	94/9547 CVR x 940 L-BE	700 Full mortise pin and barrel continuous, stainless	FE16 single rabbit
S2	90	INPACT L18 HC/T18 Temp	4000T wall-mounted	SEM 7850	94/9547 CVR x 940 L-BE	711 Swing clear pin and barrel continuous, stainless	FE16 single rabbit
S3	180	INPACT L18 HC/T18 Temp	4040XP R w/PA	SEM 7850	94/9547 CVR x 940 L-BE	700 Full mortise pin and barrel continuous, stainless	FE16 single rabbit
S4	180	INPACT L18 HC/T18 Temp	4040XP R w/PA	SEM 7850	94/9547 CVR x 940 L-BE	711 Swing clear pin and barrel continuous, stainless	FE16 single rabbit

The most common series for each set is shown. Depending on your opening requirement, additional hardware may be needed.

Set numbers are hyperlinked to system set drawings and illustrations.

*Frames are not included in the system and would need to be ordered separately.

Hollow metal doors

STEELCRAFT®

Models



L Series standard

- Cores – Honeycomb standard with polystyrene and polyurethane options
- Lights – Vision (V), narrow (N3 special/limited, N4, N5) half glass (G-mod) louver cutout



T Series temperature rise

- Core – Temp rise core for stairwell applications (250°F or 450°F at 30 min exposure per hardware)
- Lights – Vision (V), narrow (N4, N5, special/limited)

Available finishes

*Custom finishes available upon special requests

BHMA	P2807	P2820	P2821	P2822	P2837	P2841	P2850	P6006	P6074
Description	Rookwood Brown	Downing Earth	Downing Stone	Downing Sand	Aurora Brown	Weathered Shingle	Chelsea Gray	Black Bean	Spalding Gray
BHMA	P6128	P6130	P6300	P6314	P7598	P7603	P7622	P7623	P7630
Description	Blonde	Mannered Gold	Burgundy	Luxurious Red	Sierra Redwood	Poolhouse	Homberg Gray	Cascades	Raisin

GRAINTECH™ Hand-stained doors

Description	Mahogany	Birch	Ash	Maple	Oak	Walnut
--------------------	----------	-------	-----	-------	-----	--------

Certifications

- SDI Certified (Steel Door Institute) ensures compliance with rigorous manufacturing, performance, and quality standards
- Specifiable to SDI100/A250.8
- INPACT specification 081713 Preassembled Door and Frame Specification
- ANSI/NFPA 80 – Fire doors and windows
- ANSI/NFPA 105 and UL 1784 – Smoke and draft control door assemblies
- ANSI A117.1 Accessible and usable buildings and facilities
- SDI/A250.4 – Million Cycle test

Finish options

- Standard and custom finish paint colors
- GRAINTECH™
 - Hand-stained finishes for the look of real wood
 - Exceptional durability, fully warranted even on exterior openings
 - Less susceptibility to damage
 - Will never warp, crack or bow
 - Fire ratings up to 3 hours

Resources

- [Steelcraft INPACT website](#)
- [Steelcraft doors and frames technical data manual](#)

Frames

STEELCRAFT®

- Double egress corridors – FE Series custom profiles
- Paired same swing corridors – F Series
- Single openings – F Series

Available finishes

Primer only, prepped for custom Finish Paint. Finish painting by others.

Resources

- [Steelcraft INPACT website](#)
- [Steelcraft doors and frames technical data manual](#)

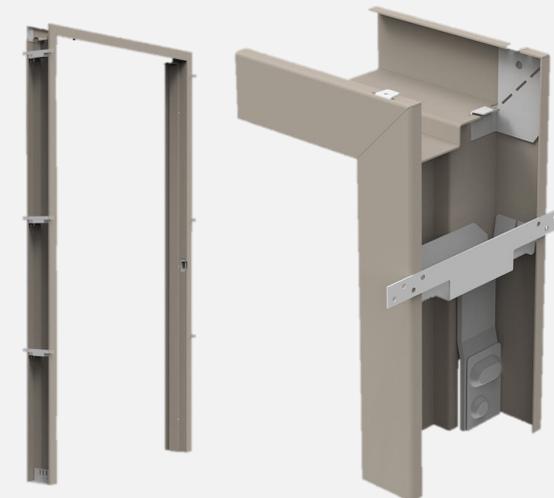
Note:

1. All openings require frames prior to door installation. Steelcraft frame information is included as reference only. Frames are not included as part of the Allegion INPACT door system and must be ordered separately.

*FE Series double egress



*F Series masonry



* Commonly used frames for INPACT applications.

Door closers

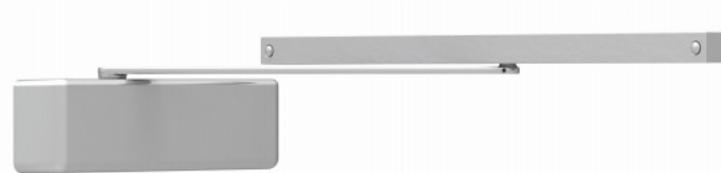
LCN®

Models



4040XP

- 180-degree opening



4000T wall-mounted

- 90-degree opening

Certifications

- ANSI/BHMA A156.4 Grade 1
- ANSI/UL 10C
- ADA
- BAA compliant
- 100-hour salt spray

Available finishes

*Custom finishes available upon special requests

BHMA	616	629	630	632	633	639	643e	646
Description	Satin Bronze, Blackened, Relieved	Stainless Steel	Satin Stainless Steel	Bright Brass	Satin Brass	Satin Bronze	Aged Bronze	Satin Nickel
BHMA	651	652	689	690	691	693	695	696
Description	Bright Chrome	Satin Chrome	Aluminum	Statuary Bronze Painted	Light Bronze Painted	Black Painted	Dark Bronze Painted	Brass Painted

Resources

- [4000 Series catalog](#)
- [4040XP data sheet](#)

Exit devices

VON DUPRIN®

Models



94 Smooth pushpad

- 47 Concealed vertical rod device
- 75 Mortise Lock Device



95 Grooved pushpad

- 47 Concealed vertical rod device
- 75 Mortise Lock Device

Certifications

- ANSI/BHMA 156.3 Grade 1
- 2010 ADA Standards (AX product)
- California Building Code (Chapter 11B-309.4) (AX – 2pt latching)
- UL305
- UL305, UL10C Fire exit hardware
- Field tested passing 350 lb. cart impact test

Available finishes

*Custom finishes available upon special requests

BHMA	605	606	612	625	626/628	626-AM	710
Description	Bright Brass	Satin Brass	Satin Bronze	Bright Stainless Steel	Satin Stainless Steel	AM Over Anodized	Duranodic Dark Bronze

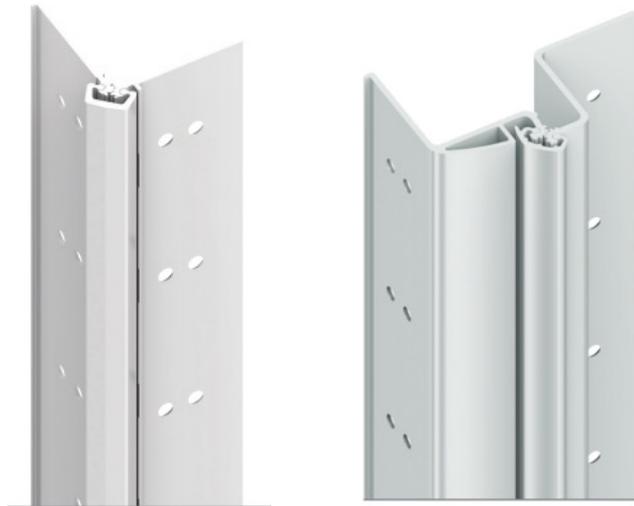
Resources

- [Von Duprin INPACT 94 and 95 catalog](#)
- [94/95 Series INPACT Exit Devices web page](#)
- [Antimicrobial solutions sell sheet](#)
- [Von Duprin AX exit devices data sheet](#)
- [Von Duprin Quiet Electronic Latch Retraction-QEL data sheet](#)

Full mortise continuous hinges

IVES

Models



224 Series

041XY Series

Aluminum geared

- 224HD Door edge protector
- 224XY Door edge protector
- 041XY Swing clear
- 040XY Wide throw



700 Series

711BSC Series

Stainless pin and barrel

- 700
- 711BSC Beveled Swing Clear*

*New swing clear hinge specially designed for Steelcraft beveled doors.

Certifications (both)

- Meets ANSI 156.26
- UL10C Certified

Available finishes

*Custom finishes available upon special requests

BHMA	628	710	663012
Description	Clear Anodized	Dark Bronze Anodized	Satin Stainless Steel
Product	Geared hinges	Geared hinges	Pin and barrel

Resources

- [Ives Architectural hardware products catalog](#)
- [Ives webpage](#)

Pivots and hinges

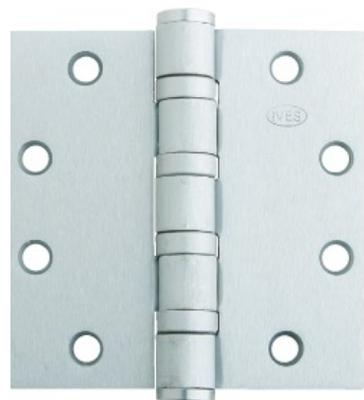
IVES

Models



91105(F) Pocket pivot

- Fire rated
- 90-degree swing
- 90lbs per pivot
- 304 Stainless Steel



Architectural hinges

- Offered in brass, steel and stainless-steel base substrates
- Solutions for variety of door requirements, applications and styles

Certifications (both)

- Meets ANSI 156.4 CO7611
- UL10C

Available finishes

*Custom finishes available upon special requests

BHMA	605	606	612	625	626/628	626-AM	710
Description	Bright Brass	Satin Brass	Satin Bronze	Bright Stainless Steel	Satin Stainless Steel	AM Over Anodized	Duranodic Dark Bronze

Resources

- [Ives Architectural hardware products catalog](#)

How to order

Allegion INPACT integrated door system



Review the INPACT Door System, download the order form, and review detailed supporting material on the [Steelcraft INPACT webpage](#)

Email completed order form to [Steelcraft Order Entry](#)

Need additional support?



Email [Steelcraft estimating](#) to help with order completion

Resources

Support



877-671-7011 (*Press 2 for Technical Product Support*)



[Technical Product Support email](#)



[Steelcraft support webpage](#)

Healthcare solutions

- [Healthy Buildings webpage](#)
- [Antimicrobial solutions sell sheet](#)

Catalogs

- [Steelcraft Hollow metal doors and frames](#)
- [LCN 4000 Series](#)
- [Von Duprin INPACT 94 and 95](#)
- [Ives Architectural hardware products](#)

