B-2010

TEMPERED GLASS DOORS
PANIC, DEADBOLT
AND DUMMY HARDWARE

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SERIES 1301 DOOR WITH PANIC DEVICE H-100-A

SERIES 250 DOOR WITH DEADBOLT HOUSING DB-170-JS

SERIES 640C DOOR WITH PUSH/PULL HANDLE P-751-A

SERIES 1200 DOORS WITH DEADBOLT HOUSINGS DB-140-KS

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VISIT OUR WEBSITE AT: www.blumcraft.com
The Early Years
Blumcraft’s founder Hyman Blum, a young artisan from Latvia, immigrated to America in 1908. He was a highly skilled craftsman whose forte was hand-forged decorative wrought iron railings, gates, lighting fixtures, and ornamental hardware. His creativity with metals and the prudent business sense of his three sons, Max, Louis, and Harry facilitated the transition of the Hyman Blum Company into Blumcraft of Pittsburgh.

The Blum collection of exquisite metal treasures can be seen at the Heinz History Center in Pittsburgh.

A New Era
During World War II, metal was not allowed to be used for decorative purposes, but after the war ended and the restrictions were lifted, Blumcraft pioneered the development of innovative adjustable aluminum handrail components. As architectural trends changed, Blumcraft again enhanced its leadership role in the industry by adding wood, glass, bronze, brass, and stainless steel to its product line. Following working relationships with PPG Industries and Libbey Owens Ford, Blumcraft launched new product lines, thanks in part to the creativity of a brilliant designer, Bill Horgan. Tempered glass doors and attractive operating hardware once again established a higher level of architectural design acceptance.

Blumcraft Today
Blumcraft of Pittsburgh continues to proudly manufacture fine top quality American made products. With the passing of Louis Blum, the last remaining partner, on March 31, 2004 at the age of 94, the Blumcraft legacy continues under the leadership of Myron Caplan and Rick Kremer. Having over 80 years of combined experience with the firm, these men will lead Blumcraft into the future.

As always, Blumcraft will assist architects by publishing catalogues in Sweets hard copy files, by maintaining up to date sections within the Sweets website, and by supporting its own online website, www.blumcraft.com

Throughout the years, architects have come to expect superb quality of design exhibited by tempered glass doors, architectural hardware, railing systems, and display case doors.

Blumcraft of Pittsburgh will fulfill these expectations with service and quality!

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DOOR SERIES 1301
MORE GLASS . . . LESS METAL

DOOR SERIES 1301 AVAILABLE IN 1/2", 5/8" OR 3/4" TEMPERED GLASS.
METAL IN STAINLESS STEEL OR BRONZE ONLY.

SERIES 1301 DOORS WITH H-100-A PANIC DEVICES
### Door Series 1301

- **Door Sections**
  - **Ceiling Channels**
    - Part No.: C-7500, C-7501
    - **Glass:**
      - 1/2" 5/8" or 3/4"
    - **Aluminum Height:**
      - 2" 2"
    - **Aluminum Width:**
      - 1-1/2" 1-3/4" 2-1/8" 2-1/8" 1-11/16" 1-15/16"
    - **Clad Height:**
      - 1-1/16" 1-15/16" 1-1/16" 1-15/16"
    - **Clad Width:**
      - 1-11/16" 1-15/16" 1-11/16" 1-15/16" 1-1/8" 1-3/8" 1-1/8" 1-3/8"
    - "*If exposed, can be clad in stainless steel or bronze"
  
- **BASE Channels**
  - Part No.: RB-500 or RB-750, EB-500 or EB-750
  - **Glass:**
    - 1/2" 5/8" or 3/4"
  - **Aluminum Height:**
    - 3/4" 3/4"
  - **Aluminum Width:**
    - 1" 1-1/4" 1-1/4" 1-1/4"
  - **Clad Height:**
    - 15/16" 15/16" 15/16" 15/16" 1-1/8" 1-3/8" 1-1/8" 1-3/8"
  - **Clad Width:**
  - "*If exposed, can be clad in stainless steel or bronze"

- **NOTE:** Glass sidelights with top & bottom rails to match rails of door are furnished completely by Blumcraft.

- **Shims**
  - For exact alignment with the floor closer, eliminates machining.

- **ALL SECTIONS FULL SIZE**
  - Upper door pivot will slide in any part of channel for exact alignment with the floor closer.

- **Sidelight Sections**
  - Glass furnished by local installer.
DOOR SERIES 1301

MATCHES DOOR RAIL SIGHTLINE

CEILING GLAZING CHANNEL

- C-7500 FOR 1/2" GLASS 1-1/2" X 2"
- C-7501 FOR 5/8" OR 3/4" GLASS 1-3/4" X 2"

PILE WEATHERSTRIPPING OPTIONAL

ADJUSTABLE TOP PIVOT SLIDES IN CHANNEL

AS AN ALTERNATE, FOR FIXED TOP PIVOT NOT REQUIRING THE CHANNEL SEE PAGE D7

SPECIAL CEMENT CASE FURNISHED BY BLUMCRAFT

INSTALLATION DETAILS

2-7/8"

2-1/8"

2-5/8"

STD.

SECTION THRU SIDELIGHT ADJOINING WALL

CEILING GLAZING CHANNEL

PILE WEATHERSTRIPPING OPTIONAL

ADJUSTABLE TOP PIVOT SLIDES IN CHANNEL

CAULK

CEILING GLAZING CHANNEL

MATCHES DOOR RAIL SIGHTLINE

2-7/8"

2-1/8"

2-5/8"

STD.

SECTION THRU SIDELIGHT ADJOINING WALL

CEILING GLAZING CHANNEL

PILE WEATHERSTRIPPING OPTIONAL

ADJUSTABLE TOP PIVOT SLIDES IN CHANNEL

AS AN ALTERNATE, FOR FIXED TOP PIVOT NOT REQUIRING THE CHANNEL SEE PAGE D7

SPECIAL CEMENT CASE FURNISHED BY BLUMCRAFT

INSTALLATION DETAILS

2-7/8"

2-1/8"

13-9/16"

4-1/8"

4-1/8"
DOOR SERIES 1301
MORE GLASS . . . LESS METAL

DOOR SERIES 1301 AVAILABLE IN 1/2", 5/8" OR 3/4" TEMPERED GLASS.
METAL IN STAINLESS STEEL OR BRONZE ONLY.

SERIES 1301 DOORS WITH FULL HEIGHT DEADBOLT HOUSINGS DB-130-F
LOCKING IS SIMULTANEOUS AT TOP AND BOTTOM
OR SEPARATELY AT TOP OR AT BOTTOM
STANDARD TOP PIVOT
(CEILING CHANNEL C-7500 OR C-7501 NOT REQUIRED)

BOTTOM RAIL IS 3/4" HIGH STANDARD OR CAN MATCH 1-1/4" HIGH TOP RAIL

NOTE:
RAILS CAN BE ADAPTED FOR VARIOUS TYPES OF ELECTROMAGNETIC LOCKS. CONTACT BLUMCRAFT WITH MODEL NUMBER OF SELECTED ELECTROMAGNETIC LOCK TO INSURE COMPATIBILITY.
OVERHEAD CLOSER DETAILS
ALL BLUMCRAFT DOOR HARDWARE APPLICABLE TO DOOR SERIES 1301
BLUMCRAFT RECOMMENDS THE USE OF FLOOR CLOSERS FOR TEMPERED GLASS DOORS

OVERHEAD CLOSER DETAILS
ALL BLUMCRAFT DOOR HARDWARE APPLICABLE TO DOOR SERIES 1301
BLUMCRAFT RECOMMENDS THE USE OF FLOOR CLOSERS FOR TEMPERED GLASS DOORS

AUTOMATIC OPERATOR

SERIES 1301 DOORS CAN BE MODIFIED AND ADAPTED FOR A VARIETY OF OVERHEAD AUTOMATIC OR POWER ASSISTED OPERATORS. THE TOP RAIL IS SLIGHTLY INCREASED IN SIZE TO ACCOMMODATE THE DIRECT DRIVE SPINDLE OR AN EXPOSED ARM OF OPERATORS MANUFACTURED BY BESAM, HORTON, LCN, OR NORTON; OTHER OPERATORS ON REQUEST. TO INSURE COMPATIBILITY, CONTACT BLUMCRAFT WITH THE MODEL NUMBER. THE BOTTOM RAILS CAN REMAIN 3/4" HIGH OR MATCH THE TOP RAILS DEPENDING ON THE ARCHITECT'S PREFERENCE.
**SIDELIGHTS**

**HEADERS**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>C-4001</th>
<th>C-4000</th>
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<tbody>
<tr>
<td>Aluminum Height</td>
<td>1 3/4”</td>
<td>2”</td>
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<tr>
<td>Aluminum Width</td>
<td>4”</td>
<td>4”</td>
</tr>
<tr>
<td>*Clad Height</td>
<td>1-13/16”</td>
<td>2-1/16”</td>
</tr>
<tr>
<td>*Clad Width</td>
<td>4-1/4”</td>
<td>4-1/4”</td>
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</table>

*If exposed, can be clad in stainless steel or bronze.

**BASE CHANNELS**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>RB-500 or EB-500</th>
<th>RB-750 or EB-750</th>
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<tbody>
<tr>
<td>Glass</td>
<td>1/2” or 5/8” or 3/4”</td>
<td>3/4”</td>
</tr>
<tr>
<td>Aluminum Height</td>
<td>3/4”</td>
<td>3/4”</td>
</tr>
<tr>
<td>Aluminum Width</td>
<td>1”</td>
<td>1-1/4”</td>
</tr>
<tr>
<td>*Clad Height</td>
<td>15/16”</td>
<td>15/16”</td>
</tr>
<tr>
<td>*Clad Width</td>
<td>1-1/8”</td>
<td>1-3/8”</td>
</tr>
</tbody>
</table>

*If exposed, can be clad in stainless steel or bronze.

**NOTE:**
Glass sidelights with top & bottom rails to match rails of door are furnished completely by Blumcraft.

**BOTTOM RAIL**

1/2”, 5/8” or 3/4” tempered glass.

**GLASS FURNISHED BY LOCAL INSTALLER**

**CLAD BASE CHANNEL**

**ALUMINUM BASE CHANNEL**

**MATCHES DOOR RAIL SIGHTLINE**

**SECTIONS THRU SIDELIGHTS**

HALF SIZE SCALE
BLUMCRAFT has developed this transom system to give the entrance a clean glass look. The narrow horizontal member supporting the transom glass is suspended by thin stainless steel rods concealed in the joints between the transom glass and the sidelights. A highly reflective finish of the B-1250 transom bar will further minimize the presence of supporting members as it blends into the reflection of the glass. This transom system can accommodate a pair of doors or a single door flanked by sidelights. Connections are also available on one or both sides to structural jamb members or walls.

**NOTE:** Corner cutouts and holes in glass are eliminated, avoiding critical stress.

Series 1301 Doors with H-100-X Panic Devices

- Electric strikes can be used with transom in combination with Blumcraft panic devices and deadbolt housings. See pages D-26 and D-27
- Transom bars can be mounted to walls or framing. Contact Blumcraft for details

Windloads, stack action, ventilation loads, heavy usage and frequency of operation are factors that affect the following:
- Glass thickness
- Transom bar dimensions
- Necessity for fins
- Fin size

It is suggested that the architect’s structural engineer review each entrance considering these factors.
ADVANTAGES:

A. Minimum exposed metal maintains an all glass entrance look.
B. Corner cutouts and hole fabrication of the glass are eliminated, thus avoiding critical stress points in both transom and sidelight glass.
C. The transom glass rests in the slot of the floating transom bar, assuring rigid installation of the transom glass.
D. The glass transom gains lateral support from adjacent sidelights without holes in the sidelight glass.
E. Doors are easily adjustable both laterally and vertically for better positioning in the opening.

BLUMCRAFT'S FLOATING TRANSOM SYSTEM HAS BEEN ERECTED AND THOROUGHLY TESTED IN BLUMCRAFT'S OWN STATIC LOAD TESTING CHAMBER. GLASS APPLIED STRAIN GAUGES ALONG WITH DEFORMATION GAUGES CONTINUOUSLY MONITORED THE GLASS DURING TESTING. THE RESULTS ARE AVAILABLE TO ARCHITECTS UPON REQUEST. ARCHITECTS SHOULD SUBMIT PRELIMINARY SKETCHES AND ADVISE WIND LOADS FOR EXTERIOR USE.

THE TRANSOM BAR IS HELD IN PLACE USING PRESSURE PADS AT THE SIDELIGHT AND SUPPORT RODS HANGING FROM THE CEILING CHANNEL.
Series 640 doors are available in 1/2", 5/8" or 3/4" thick tempered glass. Standard top and bottom rails are 3-3/8" high or 3-1/2" high (clad), but can be fabricated up to 12" high. Rails and stiles are furnished in aluminum, bronze, or stainless steel. These doors are adaptable to most overhead/floor closers, automatic operators, electric deadbolts, electromagnetic locks, and door position switches. Contact our sales department to insure compatibility. All Blumcraft panic devices, deadbolt housings and locks are applicable to Series 640 doors.

Series 640C doors with P-751-A push/pull handle.
SERIES 640CH
ALUMINUM, BRONZE
OR STAINLESS STEEL

FULL WIDTH HIGH RAIL

SERIES 640S
ALUMINUM, BRONZE
OR STAINLESS STEEL

FULL SIZE SECTION A-A
GLASS EDGES

FULL SIZE SECTION B-B
METAL DOOR STILE

SERIES 640SH
ALUMINUM, BRONZE
OR STAINLESS STEEL

FULL SIZE SECTION A-A
GLASS EDGES

FULL SIZE SECTION B-B
METAL DOOR STILE

METAL DOOR STILE

METAL DOOR STILE

UP TO 12" HIGH

ALUMINUM, BRONZE
OR STAINLESS STEEL
FULL SIZE SECTION
SERIES 250 DOORS have full width top and bottom rails and very thin vertical stiles bonded to glass. They are available in aluminum, bronze, or stainless steel.

SERIES 150 DOORS like SERIES 250 DOORS have full width top and bottom rails but have no vertical stiles. They are available in aluminum, bronze, or stainless steel.

Available in 1/2", 5/8" or 3/4" thick tempered glass.

FOR EXTERIOR DOORS OVER 8'-6" PRELIMINARY DRAWING SHOULD BE SENT TO BLUMCRAFT FOR REVIEW

ALL BLUMCRAFT PANIC DEVICES, DEADBOLT HOUSINGS AND LOCKS ARE APPLICABLE TO SERIES 250 AND SERIES 150 DOORS.
SERIES 1200 DOORS ARE DESIGNED TO USE 1/2" THICK TEMPERED GLASS UP TO 12'-0" HIGH. THESE TALL DOORS ARE CONTROLLED BY STANDARD FLOOR CLOSERS. THE WEIGHT OF THE DOOR IS BORNE BY A HEAVY DUTY LOAD BEARING CEMENT CASE INDEPENDENT OF THE FLOOR CLOSER. A VARIETY OF BLUMCRAFT DEADBOLT AND PANIC HARDWARE IS ADAPTABLE TO SERIES 1200 DOORS.

SERIES 860 DOORS ARE ALSO DESIGNED TO USE 1/2" THICK TEMPERED GLASS, BUT ONLY UP TO 8'-6" HIGH. THIS SMALLER VERSION OF THE SERIES 1200 FEATURES SAFETY JAMB PROTECTION AND ELIMINATION OF THE TOP AND BOTTOM RAILS. OVERHEAD AND FLOOR CLOSERS ARE OPTIONS. ALL BLUMCRAFT PANIC AND DEADBOLT HARDWARE IS SUITABLE FOR USE WITH SERIES 860 DOORS.
**PANIC DEVICE OPERATION**

Although the handle appears to be continuous, the operating portion of this device pivots at the “A” and “B” locations shown. A push on the panic handle any place between “A” and “B” operates the mechanism by slightly moving the handle over the actuator post, thus retracting the bolt. When the door closes, the bolt is self-latching. All panics include a built-in dogging device.

**MORTISE CYLINDER EQUIVALENCES**

<table>
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<tr>
<th>MANUFACTURER</th>
<th>MODEL NO.</th>
<th>CAM NO.</th>
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<tr>
<td>ARROW</td>
<td>MC61</td>
<td>O01</td>
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<tr>
<td>ASSA</td>
<td>6551</td>
<td>5</td>
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<tr>
<td>BEST</td>
<td>1664</td>
<td>1EC4</td>
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<tr>
<td>CORBIN/RUSSWIN</td>
<td>1000-118 A02</td>
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<tr>
<td>FALCON</td>
<td>995</td>
<td>4</td>
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<td>ILC (LORI)</td>
<td>7186XX</td>
<td>1</td>
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<td>MEDECO</td>
<td>10Q200</td>
<td>CT-Z01</td>
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<td>SARGENT</td>
<td>41</td>
<td>13-D660</td>
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<td>SCHLAGE*</td>
<td>20-D01</td>
<td>B502-191</td>
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<tr>
<td>YALE</td>
<td>2153</td>
<td>1161</td>
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*Standard with Blumcraft Panic Devices and Deadbolt Housings*

Removable core cylinders and thumbturns are applicable with the straight cam shown. Cylinder collars for Blumcraft hardware will vary with the cylinder lengths longer than 1-1/8”.

**DOOR SWING DIAGRAM**

PANIC DEVICES, DEADBOLT HOUSINGS AND DUMMY HANDLES ARE AVAILABLE IN STAINLESS STEEL OR ARCHITECTURAL BRONZE.

**ALL BLUMCRAFT HARDWARE IS APPLICABLE TO MOST TYPES OF DOORS INCLUDING:**

- TEMPERED GLASS
- WOOD
- MEDIUM/WIDE STILE AND RAIL
- BALANCED
- HOLLOW METAL
H-100-A PANIC DEVICE (SHOWN)
The top latchbolt is retracted by pushing the interior “L” shaped crash bar. A conveniently located built-in dogging device keeps the latchbolt in the retracted position and the crash bar becomes fixed. Exterior key cylinder for entry is optional. For electric strike applications see pages D26 and D27.

DB-100-A DEADBOLT HOUSING (SHOWN)
The upper deadbolt is operated by key cylinders on both sides or with an interior thumbturn.

DH-100-A DUMMY HANDLE
This matches the H-100-A panic device and the DB-100-A deadbolt housing, but has no locking mechanism.

NOTE: See pages D24 and D25 for complete visual illustrations of all Interior and Exterior hardware.

FOR TEMPERED GLASS DOORS OVER 8’6” TALL, CONTACT BLUMCRAFT
H-100-B PANIC DEVICE (SHOWN)
The top latchbolt is retracted by pushing the interior "L" shaped crash bar. A conveniently located built-in dogging device keeps the latchbolt in the retracted position and the crash bar becomes fixed. Exterior key cylinder for entry is optional. For electric strike applications see pages D26 and D27.

DB-100-B DEADBOLT HOUSING (SHOWN)
The upper deadbolt is operated by key cylinders on both sides or with an interior thumbturn.

DH-100-B DUMMY HANDLE
This matches the H-100-B panic device and the DB-100-B deadbolt housing, but has no locking mechanism.

NOTE: See pages D24 and D25 for complete visual illustrations of all INTERIOR and EXTERIOR hardware.

FOR TEMPERED GLASS DOORS OVER 8’6” TALL, CONTACT BLUMCRAFT
H-100-D PANIC DEVICE (SHOWN)
The top latchbolt is retracted by pushing the interior “L” shaped crash bar. A conveniently located built-in dogging device keeps the latchbolt in the retracted position and the crash bar becomes fixed. Exterior key cylinder for entry is optional. For electric strike applications see pages D26 and D27.

DB-100-D DEADBOLT HOUSING (SHOWN)
The upper deadbolt is operated by key cylinders on both sides or with an interior thumbturn.

DH-100-D DUMMY HANDLE
This matches the H-100-D panic device and the DB-100-D deadbolt housing, but has no locking mechanism.

NOTE: See pages D24 and D25 for complete visual illustrations of all interior and exterior hardware.

FOR TEMPERED GLASS DOORS OVER 8’6” TALL, CONTACT BLUMCRAFT
H-100-F PANIC DEVICE (SHOWN)
The top latchbolt is retracted by pushing the interior “L” shaped crash bar. A conveniently located built-in dogging device keeps the latchbolt in the retracted position and the crash bar becomes fixed. Exterior key cylinder for entry is optional. For electric strike applications see pages D26 and D27.

DB-100-F DEADBOLT HOUSING (SHOWN)
The upper deadbolt is operated by key cylinders on both sides or with an interior thumbturn.

DH-100-F DUMMY HANDLE
This matches the H-100-F panic device and the DB-100-F deadbolt housing, but has no locking mechanism.

NOTE: See pages D24 and D25 for complete visual illustrations of all INTERIOR and EXTERIOR hardware.

EXTERIOR FIXED PULL HANDLES STYLE “F” WITH H-100 PANIC DEVICES MAY NOW BE USED ON 1/2” TEMPERED GLASS DOORS UP TO 9’0” TALL. CRASH BAR MUST BE 42” FROM BOTTOM OF DOOR. STYLE “F” HANDLE MAY BE FULL HEIGHT OR 10” SHORT OF DOOR BOTTOM.

HARDWARE IS FABRICATED FROM 1-1/4” DIAMETER STAINLESS STEEL OR ARCHITECTURAL BRONZE TUBING IN SATIN OR HIGHLY POLISHED FINISHES. STATUARY BRONZE AND POWDER COATED FINISHES ALSO AVAILABLE.
H-110-A PANIC DEVICE (SHOWN)
The bottom latchbolt is retracted by pushing the interior inverted "L" shaped crash bar. A conveniently located built-in dogging device keeps the latchbolt in the retracted position and the crash bar becomes fixed. Exterior key cylinder for entry is optional. Threshold is recommended. See pages D26 and D27.

DB-110-A DEADBOLT HOUSING (SHOWN)
The lower deadbolt is operated by key cylinders on both sides or with an interior thumbturn.

DH-110-A DUMMY HANDLE
This matches the H-110-A panic device and the DB-110-A deadbolt housing, but has no locking mechanism.

FOR TEMPERED GLASS DOORS
OVER 8’6” TALL, CONTACT BLUMCRAFT

CAUTION:
THRESHOLD RAMP STRIKE IS RECOMMENDED.
FLOOR MOUNTED RAMP STRIKE COULD BE A TRIPPING HAZARD.

NOTE: See pages D24 and D25 for complete visual illustrations of all INTERIOR and EXTERIOR hardware.
TUBULAR DOOR HARDWARE

4-1/8"

HARDWARE IS FABRICATED FROM 1-1/4" DIAMETER STAINLESS STEEL OR ARCHITECTURAL BRONZE TUBING IN SATIN OR HIGHLY POLISHED FINISHES. STATUARY BRONZE AND POWDER COATED FINISHES ALSO AVAILABLE.

DB-130-F DEADBOLT HOUSING (SHOWN)

This versatile hardware can have top AND bottom bolts simultaneously operated by key cylinders on both sides or by interior thumbturn. Locking bolts also can be at TOP only or at BOTTOM only.

NEW DEVELOPMENT

Patent Pending

Blumcraft’s top locking deadbolt hardware, DB-100, DB-130, DB-160, and DB-170 now has the capability of self-latching with key cylinders or thumbturns that spring-back when turned. This hardware is similar to the H-100 panic device except there is no crash bar for immediate exit. This new function allows entry or exit by key cylinders without the relocking requirement of previous models, i.e. the top bolt is always ready to re-latch into a standard strike or an electric strike. This hardware also incorporates a unique feature similar to a panic dogging device that can retract the top bolt and retain it, making the deadbolts ordinary push/pull handles. These deadbolts with the new feature are called DBL-100, DBL-130, DBL-160, and DBL-170 having the same look as the previous models. This hardware can be used in combination with Blumcraft exterior pull handles designated by letters. Local building codes should be reviewed for compliance. Contact Blumcraft for additional information.

DH-130-F DUMMY HANDLE (SHOWN)

This matches the DB-130-F deadbolt housing but has no locking mechanism.

NOTE: See pages D24 and D25 for complete visual illustrations of all INTERIOR and EXTERIOR hardware.

DB-130-F DEADBOLT HOUSINGS ARE AVAILABLE 10" SHORT OF THE DOOR BOTTOM WITH A TOP BOLT ONLY
TUBULAR DOOR HARDWARE

Hardware is fabricated from 1-1/4” diameter stainless steel or architectural bronze tubing in satin or highly polished finishes. Statuary bronze and powder coated finishes also available.

Deadbolt housings DB-140-KS and DB-150-P matching dummy handles DH-140-KS and DH-150-P without locking mechanisms.


All deadbolt housings are operated by key cylinders on both sides or with an interior thumbturn.

Interior DB-150

Note: See pages D24 and D25 for complete visual illustrations of all interior and exterior hardware.
PANIC DEVICES
WITH OPERATING HANDLES ON INTERIOR SIDE OF DOOR

DEADBOLT LOCK HOUSINGS
WITH LOCKING MECHANISM ON INTERIOR SIDE OF DOOR

MAXIMUM DOOR HEIGHTS FOR H-100 ONLY
With Crash Bar at 42" High

<table>
<thead>
<tr>
<th>DOOR HEIGHT</th>
<th>GLASS THICKNESS</th>
<th>EXTERIOR HANDLES APPLICABLE</th>
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<tbody>
<tr>
<td>8'-6&quot;</td>
<td>1/2&quot;</td>
<td>All</td>
</tr>
<tr>
<td>9'-0&quot;</td>
<td>1/2&quot;</td>
<td>&quot;F&quot; Full Height</td>
</tr>
<tr>
<td>9'-0&quot;</td>
<td>1/2&quot;</td>
<td>&quot;F&quot; 10&quot; Short of Door Bottom</td>
</tr>
<tr>
<td>9'-0&quot;</td>
<td>3/4&quot;</td>
<td>All</td>
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</table>

PANIC DEVICES, DEADBOLT HOUSINGS AND DUMMY HANDLES AVAILABLE IN STAINLESS STEEL OR ARCHITECTURAL BRONZE

DBL DEADBOLT HARDWARE
WITH LATCHING MECHANISM ON INTERIOR SIDE OF DOOR
FOR COMPLETE DESCRIPTION SEE PAGE D22

PANIC HARDWARE OF PITTSBURGH

INTERIOR HARDWARE

DEADBOLT DB-100
DEADBOLT DB-110
DEADBOLT DB-130
DEADBOLT DB-150
DEADBOLT DB-160
DEADBOLT DB-170

DEADBOLT DBL-100
DEADBOLT DBL-110
DEADBOLT DBL-130
DEADBOLT DBL-150
DEADBOLT DBL-160
DEADBOLT DBL-170

DUMMY DH-100
DUMMY DH-110
DUMMY DH-120
DUMMY DH-130
DUMMY DH-140
DUMMY DH-150
DUMMY DH-160
DUMMY DH-170

PANIC H-100
PANIC H-110
DEADBOLT DB-140
DEADBOLT DB-150
DEADBOLT DB-160
DEADBOLT DB-170
The exterior push/pull handles on this page can be used with any interior panic device, deadbolt housing, or dummy handle shown on page D24. With over 140 combinations available, the architect can select from a wide variety of options.

Push/pull handles available in stainless steel or architectural bronze.

How to specify the interior and exterior hardware combination:

1. Interior operating handle (Select Prefix):
   - H* = Panic
   - DH = Dummy
   - DB = Deadbolt
   - DBL* = Latching
   * Applicable only with 100 and 110
   ** Applicable only with 100, 130, 160, and 170

2. Interior operating handle style (Select One):
   - 100
   - 110
   - 130
   - 140
   - 150
   - 160
   - 170

3. Exterior push/pull handle (Select One):
   - A
   - B
   - C
   - D
   - E
   - F
   - H
   - J
   - JS
   - K
   - KS
   - N
   - P
   - X
   - Y

Combine the three selections:
Example: H - 100 - A
1. 2. 3.
**H-100 Panic Device Applications**

Note: SH-100 switch housings, while similar in appearance to H-100 panic devices, have a switching function that only operates independent electric locks. These electric locks can be electromagnetic, drop bolts, or shear locks. Contact Blumcraft with model number of selected lock to insure compatibility.

**Door Stop/Strikes for H-100 Panic Devices**

Note: Door stop/strikes for deadbolt housings are similar to the above, except that they have no panic bolt ramp. Mounting holes are identical.

**Electric Strike Applications**

Folger Adam 310-1 3/4" Straight Keeper without Signal Switches

Door stop and electric strike mounting bar for pair of doors ES-100-D

The ES-100-D door stop/mounting bar is also available with an electric strike on only one side.
TYPICAL DOOR STOP AND ELECTRIC STRIKE CONDITION FOR FLOATING TRANSOM BAR

- 16-3/4" STD.
- 2-11/16" F-1250 TRANSOM BAR
- MOUNTING BLOCK

FOLGER ADAM 310-1 ONLY WITH 3/4" STRAIGHT KEEPER AND WITHOUT SIGNAL SWITCHES

TYPICAL DETAIL AS INDICATED ON PAGE D26.

HARDWARE APPLICATIONS

SH-100 SWITCH HOUSING (TO ACTUATE ELECTRIC LOCK)

- METAL SHIMS AS REQUIRED
- ELECTRIC DEADBOLT LOCAL MOUNTING BLOCK
- MAGNETIC CONTACT SWITCH
- ADJUSTABLE DOOR STOP
- ACTUATING MAGNET
- SH-100 SWITCH HOUSING

NOTE: RAILS CAN BE ADAPTED FOR VARIOUS TYPES OF ELECTROMAGNETIC LOCKS OR ELECTRIC DEADBOLTS. CONTACT BLUMCRAFT WITH MODEL NUMBER OF SELECTED LOCK TO INSURE COMPATIBILITY.

H-110 PANIC DEVICE APPLICATIONS

- 3/16" FIXED
- 1-1/4" DIA.
- 1-1/8" MIN.

DEADBOLT HOUSING APPLICATIONS

- 2" RAIL
- DEADBOLT HOUSING

STRIKES FOR H-110 PANIC DEVICES

- THRESHOLD RAMP STRIKE S-110-T
- FLOOR MOUNTED RAMP STRIKE S-110-F

CAUTION: THRESHOLD RAMP STRIKE IS RECOMMENDED. FLOOR MOUNTED RAMP STRIKE COULD BE A TRIPPING HAZARD
THE HANDLES SHOWN ON THIS PAGE CAN BE ADAPTED TO GLASS, WOOD OR METAL DOORS AND ARE AVAILABLE IN THE FOLLOWING MATERIALS AND FINISHES:

ALUMINUM — SATIN CLEAR ANODIZED AND DARK BRONZE OR BLACK DURANODIC
STAINLESS STEEL — SATIN OR HIGH BUFF LUSTRE
BRONZE — SATIN OR HIGH BUFF LUSTRE

P-751-A SOLID PUSH/PULL HANDLE
1-1/8" DIA. - Both Sides of Door

P-722
FULL HEIGHT TUBULAR PUSH/PULL HANDLE
Both Sides of Door

P-752-A SOLID PUSH/PULL HANDLE
1-1/8" DIA. - Both Sides of Door

SCALE: 1-1/2" = 1'-0"
THRU-GLASS LOCKS
3/4" THROW
1/2", 5/8" OR 3/4" TEMPERED GLASS
AVAILABLE IN STAINLESS STEEL, BRONZE OR ALUMINUM IN A VARIETY OF FINISHES

RAIL DEADLOCKS

THIS BLUMCRAFT DEADLOCK HAS A 5/8" DIAMETER DROP BOLT WITH A 3/4" THROW THAT CAN ENGAGE INTO A STRIKE PLATE, THRESHOLD, OR QUIT-PROOF STRIKE. THE 7385 LOCK CAN BE MOUNTED IN THE BLUMCRAFT 640C DOOR AND MOST TEMPERED GLASS DOORS. STANDARD MORTISE KEY CYLINDERS ARE HELD IN POSITION WITH SET SCREWS THAT ARE ACCESSIBLE FROM THE END OF THE DOOR RAIL.

THIS DEADLOCK IS THE SAME AS THE STANDARD 7385 EXCEPT THAT IT HAS A FULL 1-1/4" THROW. THE ADDITIONAL ENGAGEMENT CAN ACCOMMODATE CLEARANCES UP TO 11/16" OR SPECIAL FLOOR CONDITIONS.

THIS BLUMCRAFT DEADLOCK HAS A CYLINDRICALLY SHAPED BOLT THAT ROLLS RATHER THAN SLIDES. ROLLING REDUCES THE CONTACT AREA SURROUNDING THE BOLT AND THE POSSIBILITY OF FREEZING IN AN OPEN OR CLOSED POSITION. WHEN LOCKED, THE BOLT BECOMES VERY DIFFICULT TO DAMAGE BECAUSE IT REVOLVES ON ITS OWN AXIS. BALL BEARINGS SMOOTH OUT THE OPERATION OF ALL STAINLESS STEEL MOVING PARTS. SIX PIN MORTISE CYLINDERS ARE STANDARD AND CAN BE KEYED ALIKE OR KEYED SEPARATELY.
GUIDELINES

EXTERIOR USE 8'-0" HIGH FOR 1/2" THICK GLASS
8'-6" HIGH FOR 5/8" OR 3/4" THICK GLASS

INTERIOR USE 8'-6" HIGH FOR 1/2" THICK GLASS
9'-0" HIGH FOR 5/8" OR 3/4" THICK GLASS

SINCE INCREASED SIZES MAKE THE DOORS HEAVIER AND MORE FLEXIBLE, CONSIDER THE FOLLOWING:

• WINDLOAD, STACK ACTION, AND VENTILATION LOADS
• PANIC DEVICE AND DEADBOLT HOUSING LIMITATIONS
• MOUNTING CONDITIONS OF DOORS TO BUILDING STRUCTURE
• FLOOR CLOSER OR OVERHEAD CLOSER CHARACTERISTICS
• HEAVY USAGE AND FREQUENCY OF OPERATION
• COMFORTABLE FEEL OF THE DOOR DURING OPERATION

FINAL DETERMINATION SHOULD BE MADE BY THE ARCHITECT’S STRUCTURAL ENGINEER

SPECIFICATIONS

1/2" THICK FULLY TEMPERED GLASS IS AVAILABLE IN CLEAR, SOLARBRONZE, SOLARGRAY, STARPHIRE LOW-IRON, SATIN ETCH, AND SATIN ETCH/Low Iron.
5/8" AND 3/4" GLASS AVAILABLE IN CLEAR AND STARPHIRE LOW-IRON ONLY.

SERIES 1301 DOORS


IMPORTANT: THE SERIES 1301 TOP AND BOTTOM RAILS CAN VARY IN SIZE TO ACCOMMODATE ELECTRO-MAGNETIC LOCKS, ELECTRIC DROP BOLTS, AUTOMATIC OPERATORS, OVERHEAD CLOSERS, WALKING BEAM TOP PIVOTS, AND TO ALIGN WITH ADJACENT MATERIALS. CONTACT FACTORY FOR DETAILS.

FINISHES FOR SERIES 1301 DOORS

NOTE: BRONZE FINISH IS FURNISHED NOT LACQUERED. CONTACT BLUMCRAFT FOR SUGGESTED MAINTENANCE.
ALUMINUM: NOT AVAILABLE

FLOOR/OVERHEAD CLOSERS FOR SERIES 1301 DOORS

FLOOR CLOSERS: DORMA BTS-75V, DORMA BTS-80, JACKSON 900
OVERHEAD CLOSERS: DORMA RTS-80

WEATHERSTRIPPING

PILE WEATHERSTRIPPING CAN BE APPLIED TO EDGES OF GLASS. IT IS REPLACEABLE WITHOUT REMOVING DOORS FROM THEIR OPENINGS.

SIDELIGHTS

SIDELIGHTS TYPICALLY HAVE TOP/BOTTOM RAILS TO MATCH THE DOORS, BUT A VARIETY OF OPTIONS ARE ALSO AVAILABLE. THEY CAN BE RECESSED INTO CEILING OR BASE CHANNELS FOR AN ALL GLASS LOOK AND ARE GENERALLY FURNISHED COMPLETELY BY BLUMCRAFT.

OTHER DOOR SERIES

SERIES 250 DOORS

HORIZONTAL TOP AND BOTTOM RAILS ARE FURNISHED IN SOLID ALUMINUM SECTIONS 1-1/4" THICK FOR 1/2" GLASS. FOR 5/8" AND 3/4" GLASS, THE RAILS ARE 1-1/2" THICK. VERTICAL STILES MUST BE THE EXACT SHAPE AND SIZE TO MATCH THE RAILS. THESE STILES ARE BONDED TO THE GLASS IN BLUMCRAFT’S FACTORY AND MAY HAVE PILE WEATHERSTRIPPING APPLIED. HOLLOW SHAPES OR CHANNEL SECTIONS WILL NOT BE ACCEPTABLE. THESE RAILS CONTAIN ADJUSTABLE TOP AND BOTTOM PIVOT BLOCKS WITH ADAPTERS TO FIT OPERATING FLOOR CHECKS SPECIFIED. THESE BLOCKS ARE TO BE SOLID AND BUILT TO THE DIMENSIONS AS DETAILED. THE PIVOT BLOCKS HAVE ADJUSTABLE FEATURES FOR ALIGNMENT OF DOOR AND HAVE REMOVABLE COVER PLATES TO HIDE ADJUSTMENT SCREWS. WHEN OVERHEAD CLOSERS ARE USED, THE PIVOT BLOCK CONTAINS A HEAVY DUTY TAPERED ROLLER BEARING WHICH IS ADJUSTABLE IN HEIGHT. THE UPPER PIVOT BLOCK CONTAINS AN ADJUSTABLE PIVOT ARM TO FIT THE PINTEL OF THE SPECIFIED OVERHEAD CLOSER. SERIES 250 DOORS CAN ACCEPT #7350 RAIL LOCKS.

SERIES 640 DOORS

THE SERIES 640C, 640CH, 640S, AND 640SH DOORS ARE AVAILABLE IN 1/2", 5/8", OR 3/4" THICK TEMPERED GLASS. STANDARD TOP AND BOTTOM RAILS ARE 3-3/8" HIGH OR 3-1/2" HIGH WHEN CLAD, BUT CAN BE FABRICATED UP TO 12" HIGH. RAILS AND STILES (640S AND 640SH) ARE FURNISHED IN ALUMINUM, STAINLESS STEEL, OR BRONZE AND CAN ACCEPT #7385 RAIL LOCKS. THESE DOORS ARE ADAPTABLE TO MOST OVERHEAD/FLOOR CLOSERS, AUTOMATIC OPERATORS, ELECTRIC DROP BOLTS, ELECTROMAGNETIC LOCKS, AND DOOR POSITION SWITCHES.

SERIES 860 DOORS

A SMALLER VERSION OF THE SERIES 1200 DOOR, THE SERIES 860 DOOR IS ALSO DESIGNED TO USE 1/2" TEMPERED GLASS, BUT ONLY UP TO 8'-6" HIGH. THE DOOR FEATURES SAFETY JAMB PROTECTION AND ELIMINATION OF THE TOP AND BOTTOM RAILS.
SERIES 1200 DOORS ARE DESIGNED TO USE 1/2" THICK TEMPERED GLASS. SERIES 250 AND 640 DOORS ARE READILY ADAPTABLE TO MOST TOORMAX FLOOR AUTOMATIC OPERATORS. TO INSURE COMPATIBILITY, THE TOP RAILS. SERIES 640 DOORS ARE ALSO ADAPTABLE TO THESE SAME OPERATORS WITH MODIFICATIONS TO THE TOP RAILS. SERIES 1301 DOORS ARE ADAPTABLE TO TORMAX FLOOR AUTOMATIC OPERATORS. TO INSURE COMPATIBILITY, CONTACT BLUMCRAFT FOR SUGGESTED MAINTENANCE.

FLOOR CLOSERS FOR SERIES 250, 640, AND 660 DOORS

RIXSON: 26, 28, 30, 40, 5013-15, 5023-25
DORMA: BTS-75V, BTS-80
JACKSON: 900

NOTE: IF A POSITIVE STOP IS REQUIRED, SPECIFY "AUXILIARY STOP TO BE APPLIED AT THE FLOOR, HEADER, OR WALL AT OR NEAR THE LEADING EDGE OF THE DOOR"

OVERHEAD CLOSERS FOR SERIES 250, 640, AND 660 DOORS

BLUMCRAFT DOES NOT RECOMMEND OVERHEAD CLOSERS FOR GENERAL EXTERIOR USE OR FOR LARGE DOORS OR DOORS MADE OF EXCESSIVELY HEAVY GLASS OR HARDWARE. SELECTION OF CLOSERS SHOULD BE DETERMINED BY THE ARCHITECT AND THE HARDWARE CONSULTANT.

RIXSON: 608, 700, 800
DORMA: RTS-88
JACKSON: 20-330

SERIES 1200 DOORS

SERIES 1200 DOORS ARE DESIGNED TO USE 1/2" THICK TEMPERED GLASS UP TO 12'-0" HIGH. THESE TALL DOORS ARE CONTROLLED BY DORMA BTS-80 FLOOR CLOSERS. THE WEIGHT OF THE DOOR IS BORNE BY A HEAVY DUTY LOAD BEARING CEMENT CASE INDEPENDENT OF THE FLOOR CLOSER.

FINISHES FOR SERIES 1200 DOORS

ALUMINUM: SATIN CLEAR ANODIZED, MEDIUM OR DARK BRONZE DURANODIC AND BLACK DURANODIC. PAINTED OR POWDER COATED AVAILABLE IN VARIOUS COLORS.

STAINLESS STEEL: SATIN US32D, POLISHED US32, POWDER COATED

BRONZE ALLOY 280: SATIN US10, POLISHED US9, STATUARY US10B. NOTE: BRONZE FINISH IS FURNISHED NOT LACQUERED. CONTACT BLUMCRAFT FOR SUGGESTED MAINTENANCE.

WEATHERSTRIPPING

PILE WEATHERSTRIPPING CAN BE APPLIED TO EDGES OF GLASS OR IN SERIES 250 AND 640/640G VERTICAL STILES. IT IS REPLACEABLE WITHOUT REMOVING DOORS FROM THEIR OPENINGS.

SIDELIGHTS

SIDELIGHTS TYPICALLY HAVE TOP/BOTTOM RAILS TO MATCH THE DOORS, BUT A VARIETY OF OPTIONS ARE ALSO AVAILABLE. THEY CAN BE RECESSED INTO CEILING OR BASE CHANNELS FOR AN ALL GLASS LOOK AND ARE GENERALLY FURNISHED COMpletely BY BLUMCRAFT.

FLOATING TRANSMAS BARS

THE 8-1250 FLOATING TRANSMAS BARS ARE MADE OF SOLID STEEL AND CLAD TO MATCH THE SPECIFIED FINISH. THEY HAVE BOTH VERTICAL AND LATERAL ADJUSTMENTS. INSTALLATION IS ACCOMPLISHED BY STAINLESS STEEL SUPPORT RODS HANGING FROM CEILING CHANNELS AND PRESSURE PADS TO THE SIDELIGHT GLASS. ELECTRIC STRIKES CAN BE USED WITH TRANSMAS BARS IN COMBINATION WITH BLUMCRAFT PANIC DEVICES OR DEADBOLT HOUSINGS. TRANSMAS BARS CAN BE MOUNTED TO WALLS OR FRAMING.

AUTOMATIC OPERATORS

SERIES 250 AND 640 DOORS ARE READILY ADAPTABLE TO MOST OVERHEAD AUTOMATIC OR POWER ASSISTED OPERATORS SUCH AS BESAM, HORTON, LCN, OR NORTON. SERIES 1301 DOORS ARE ADAPTABLE TO THESE SAME OPERATORS WITH MODIFICATIONS TO THE TOP RAILS. SERIES 640 DOORS ARE ALSO ADAPTABLE TO TORMAX FLOOR AUTOMATIC OPERATORS. TO INSURE COMPATIBILITY, CONTACT BLUMCRAFT.

TUBULAR HARDWARE

PANIC DEVICES

PANIC DEVICES H-100 OR H-110 WITH INTERIOR OPERATING PANIC HANDLES CAN BE USED IN COMBINATION WITH EXTERIOR FIXED PULL HANDLES DESIGNATED BY LETTERS. THE PANIC MECHANISM IS CONCEALED WITHIN THE 1-1/4" DIAMETER STAINLESS STEEL OR ARCHITECTURAL BRONZE TUBING. ENTRANCE FROM EXTERIOR BY KEY CYLINDER IS OPTIONAL.

ELECTRIC STRIKES

ELECTRIC STRIKES ARE FOLGER ADAM 310-1 WITH 3/4" STRAIGHT KEEPERS WITHOUT SIGNAL SWITCHES USING H-100 PANIC DEVICES. THEY ARE MOUNTED IN THE HEADER OR TRANSOM BAR.

DEADBOLT HOUSINGS

DEADBOLT HOUSINGS DB-100, DB-110, DB-130, DB-140, DB-150, DB-160, OR DB-170 WITH INTERIOR FIXED HANDLES CAN BE USED IN COMBINATION WITH ANY OF THE FIXED EXTERIOR PULL HANDLES DESIGNATED BY LETTERS. THE OPERATING MECHANISM IS CONCEALED WITHIN THE 1-1/4" DIAMETER STAINLESS STEEL OR ARCHITECTURAL BRONZE TUBING. THERE IS A KEYED CYLINDER ON BOTH SIDES OR A THUMBTURN ON THE INTERIOR SIDE WHERE INDICATED. THE LOCKING MECHANISM IS ON THE INTERIOR SIDE OF THE DOOR.

DEADBOLT HOUSINGS (SELF-LATCHING)

DEADBOLT HOUSINGS DBL-100, DBL-130, DBL-160 OR DBL-170 WITH INTERIOR FIXED HANDLES CAN BE USED IN COMBINATION WITH ANY OF THE FIXED EXTERIOR PULL HANDLES DESIGNATED BY LETTERS. THIS NEW SELF-LATCHING FUNCTION IS FULLY DESCRIBED ON PAGE D22.

DUMMY HANDLES

DUMMY HANDLES DH-100, DH-110, DH-130, DH-140, DH-150, DH-160, OR DH-170 WITH INTERIOR FIXED HANDLES CAN BE USED IN COMBINATION WITH ANY OF THE FIXED EXTERIOR PULL HANDLES DESIGNATED BY LETTERS. THIS HARDWARE MATCHES THE PANIC OR DEADBOLT HARDWARE BUT HAS NO LOCKING MECHANISM.

FINISHES FOR TUBULAR HARDWARE

STAINLESS STEEL: SATIN US32D, POLISHED US32, POWDER COATED

BRONZE: SATIN US10, POLISHED US9, STATUARY US10B

ALUMINUM: SATIN CLEAR ANODIZED, MEDIUM OR DARK BRONZE DURANODIC AND BLACK DURANODIC. PAINTED OR POWDER COATED AVAILABLE IN VARIOUS COLORS.

CONSTRUCTION AND TESTING

DOORS ARE COMPLETELY BUILT WITH TOP/BOTTOM RAILS AND VERTICAL STILES BONDED TO GLASS. ALL OPERATING HARDWARE IS MOUNTED TO DOORS. THIS ASSEMBLY MUST BE DONE IN BLUMCRAFT’S FACTORY UNDER CONTROLLED CONDITIONS. EACH DOOR IS THEN PHYSICALLY TESTED IN OUR FACTORY FOR ALL OPERATING FUNCTIONS AND MADE READY FOR INSTALLATION.

INSTALLATION

INSTALLATION IS MADE IN ACCORDANCE WITH MANUFACTURER’S RECOMMENDATIONS. DOOR FRAMING, JAMBS, AND THRESHOLDS MUST BE SET SQUARE AND PLUMB. CLEARANCES BETWEEN THE DOORS, HEADER, JAMB, AND THRESHOLD MUST BE AS RECOMMENDED BY BLUMCRAFT. PIVOT BLOCKS AT TOP AND BOTTOM OF DOORS MUST BE PROPERLY ALIGNED WITH INTERNAL ADJUSTMENTS BEFORE PLACING STRIKE PLATES IN FLOOR, THRESHOLD, AND HEADER. THE INSTALLATION CONTRACTOR IS FULLY RESPONSIBLE FOR PROPERLY ALIGNING AND SETTING THE DOORS AND THE SIDELIGHTS IN ACCORDANCE WITH BLUMCRAFT’S DETAILED INSTRUCTION SHEETS INCLUDED WITH EACH SHIPMENT.

PROTECTION

DURING THE INSTALLATION AND AFTER THE INSTALLATION IS COMPLETED, THE GENERAL CONTRACTOR IS FULLY RESPONSIBLE FOR PROVIDING ADEQUATE PROTECTION AGAINST ANY STAINS OR OTHER DAMAGE THAT MAY OCCUR DURING CONSTRUCTION.

SHOP DRAWINGS

BLUMCRAFT’S ENGINEERING STAFF WILL PREPARE ALL SHOP DRAWINGS.
OVER 80,000 BLUMCRAFT INSTALLATIONS CAN BE FOUND IN SOME OF THE MOST PRESTIGIOUS BUILDINGS THROUGHOUT THE WORLD. THE FOLLOWING IS A PARTIAL LISTING OF NOTABLE PROJECTS WHERE BLUMCRAFT ENTRANCE DOORS AND HARDWARE HAVE BEEN INSTALLED.

NY JETS TRAINING FACILITY
Florham Park, NJ

NESTLE CULINARY INNOVATION CENTER
Solon, OH

MERCK
Rahway, NJ

UNITED NATIONS PENSION FUND
New York, NY

BAYER CORPORATION
Pittsburgh, PA

PERFORMING ARTS
St. Louis, MO

YALE UNIVERSITY
New Haven, CT

LOUVRE
Paris, France

HARVARD UNIVERSITY
Cambridge, MA

MILWAUKEE ART MUSEUM
Milwaukee, WI

SUPREME COURT
Jerusalem, Israel

BLOOMBERG
New York, NY

PFIZER
New York, NY

165 CHARLES STREET
New York, NY

DELOITTE HEADQUARTERS
Chicago, IL

INSTITUTE FOR THE STUDY OF THE ANCIENT WORLD
New York, NY

MT. VERNON VISITOR’S CENTER
Mt. Vernon, NY

WOLFGANG PUCK-THE BORGATA NORTH
Atlantic City, NJ

CARLOW COLLEGE
Pittsburgh, PA

CANADIAN EMBASSY
Riyadh, Saudi Arabia

M.M. ROBERTS STADIUM
UNIVERSITY OF MISSISSIPPI
Hattiesburg, MS

HARLEY DAVIDSON MUSEUM
Milwaukee, WI

UCLA YOUNG RESEARCH LIBRARY
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PURDUE UNIVERSITY
West Lafayette, IN

RITZ CARLTON
New York, NY

JAMES GALLERY
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RADISSON WAIIKI
PRINCE KUHIO HOTEL
Honolulu, HI

WORLD WAR II MUSEUM
New Orleans, LA

ASIAN ART MUSEUM
San Francisco, CA

METROPOLITAN MUSEUM OF ART
New York, NY

DEPARTMENT OF HOMELAND SECURITY
New York, NY

BLOOMINGDALE’S
New York, NY

NEW YORK HISTORICAL SOCIETY
New York, NY

NETFLIX
Los Gatos, CA

XEROX WORLD HEADQUARTERS
Stamford, CT

U.S. STATE DEPARTMENT GALLERIES
Washington, DC

CANARY WHARF
London, England

CALVIN KLEIN
Dutai, UAE

VANDERBILT MUSEUM
Centerpoint, NY

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E-mail (for drawings/engineering department): eng@blumcraft.com
Visit our website at www.blumcraft.com

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