08710/HAG
BuyLine 3643

HAGER HARDWARE

HAGER COMPANIES
ST. LOUIS, MISSOURI

HAGER
THRESHOLDS AND WEATHERSTRIPPING

FEATURED IN SWEETS SECTION
08730/HAG/BuyLine 4767

ARCHITECTURAL HINGE SELECTOR

Type of Door / Type of Frame	Full Mortise Hollow Metal or Wood / Hollow Metal or Wood	Half Mortise Hollow Metal or Wood / Channel Iron	Full Surface Composite or Tubular Steel / Channel Iron	Half Surface Composite or Wood / Hollow Metal or Wood
HINGE DESCRIPTION				
Tri-Con, Std. Wt. PB, Steel	700			
Tri-Con, Std. Wt. PB, Brass/Stn. Stl	800			
Tri-Con Std. Wt. AB, Steel	AB700	AB701	AB702	AB703
Tri-Con Std. WT., AB, Brass/Stn. Stl	AB800	AB801	AB802	AB803
Tri-Con Hvy Wt., AB Steel	AB750	AB751	AB752	AB753
Tri-Con Hvy Wt., AB, Brass/Stn. Stl.	AB850	AB851	AB852	AB853
Spring Hinge Std. Wt., Steel	1250			
Std. Wt., PB, Steel	1279	1129		1173
Std. Wt., PB, Brass/Stn. Stl.	1191			
2BB, Std. WT., Steel	BB1279	BB1129	BB2171	BB1173
2BB, Std. WT., Brass/Stn. Stl.	BB1191	BB1109	BB2110	BB2112
4BB, Hvy Wt., Steel	BB1168	BB1138	BB2168/BB2169	BB1163
4BB, Hvy Wt., Brass/Stn. Stl.	BB1199	BB2098	BB2108/BB2109	BB2113
3K/5K Anchor Hinge Steel, One Prong	AB7505/BB1160			
3K/5K Anchor Hinge Brass/Stn. Stl, One Prong	AB8505/BB1190			
3K/5K Anchor Hinge Steel, Two Prong, Square Edge Door	AB7506/BB1162			
3K/5K Anchor Hinge Brass/Stn. Stl. Two Prong/Square Edge Door	AB8506/BB1192			
3K/5K Anchor Hinge Steel/Two Prong Beveled Edge Door	AB7508/BB1166			
3K/5K Anchor Hinge Brass/Stn. Stl Two Prong/Beveled Edge Door	AB8508/BB1196			
3K/5K Anchor Hinge Steel/One Long/ One Short Prong/Square Edge Door	AB7507/BB1165			
3K/5K Anchor Hinge Brass/Stn. Stl /One Long/ One Short Prong/Square Edge Door	AB8507/BB1195			
3K/5K Anchor Hinge Steel/One Long/ One Short Prong/Beveled Edge Door	AB7509/BB1167			
3K/5K Anchor Hinge Brass/Stn. Stl./One Long/ One SHort Prong/Beveled Edge Door	AB8509/BB1197			
Bronze Pivot Hinge - Top	495			
Bronze Pivot Hinge - Intermediate	496			
Bronze Pivot Hinge - Bottom	497			
3K/5K Swing Clear, Std. Wt., BB Steel/ Beveled Edge Door	AB7001/BB1260	BB1264		
3K/5K Swing Clear/ Std. Wt., BB Steel/ Beveled Edge Door	AB7002/BB1261	BB1265		
3K/5K Swing Clear/Hvy Wt., BB Steel/ Square Edge Door	AB7501/BB1262	AB7511		
3K/5K Swing Clear/Hvy Wt., BB Steel/ Beveled Edge Door	AB7502/BB1263	AB7512		
3K/5K Swing Clear/Hvy Wt., BB Steel			AB7523/BB1266	AB7534/BB1270
3K/5K Std. Wt., PB, Wide Throw/Steel	WT700/WT1279			
3K/5K Std. Wt., PB, Wide Throw/Brass/Stn. St.	WT800/WT1191			
3K/5K Std. Wt., AB Wide Throw/Steel	WTAB700/WTBB1279			
3K/5K Std. Wt., AB Wide Throw/Brass/Stn. Stl	WTAB800/WTBB1191			
3K/5K Hvy. Wt., AB Wide Throw/Steel	WTAB750/WTBB1168			
3K/5K Hvy. Wt., AB Wide Throw/Brass/Stn. Stl	WTAB850/WTBB1199			

For Hospital Type, use Prefix "HT" on above number. Hospital Type hinges are available on all architectural hinges with the exception of anchor hinges.

NOTE: FOR SPECIAL REQUIREMENTS. In the event a particular hinge is not found to meet your requirements, please contact our Sales Department and provide Hager with the specific requirements. The Hager Engineering Staff will prepare special drawings for the appropriate application.

NOTE: When ordering round corner hinges, please specify a radius of either 1/4" or 5/8". If radius is not specified, 1/4" will be supplied.

TRI-CON HINGES

FULL MORTISE

For Wood or Hollow Metal Doors (Template)

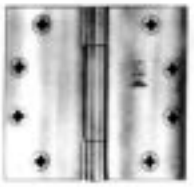
Standard Weight/Medium Frequency
700 – Plain Bearing – Steel
AB700 – Concealed Ball Bearing – Steel
800 – Plain Bearing-Brass/Stainless Steel
AB800 – Concealed Ball Bearing/Stainless Steel

Available in sizes 3½ x 3½, 4 x 4, 4½ x 4, 4½ x 4½, 5 x 4, 5 x 4½ and 5 x 5

Heavy Weight/High Frequency
AB750 – Concealed Ball Bearing – Steel
AB850 – Concealed Ball Bearing – Brass/Stainless Steel

Available in sizes 4½ x 4½, 5 x 4½, 5 x 5, 6 x 4½, 6 x 5 and 6 x 6

Concealed, Non-Rising, Removable Pin
Concealed plug



AB700

AB750

For information concerning Wide Throw applications, contact your local Hager sales representative or the Hager sales office.

FULL SURFACE

Standard Weight/Medium Frequency
AB702 – Concealed Ball Bearing – Steel
AB802 – Concealed Ball Bearing – Brass/Stainless Steel

Available in sizes 4½" and 5"

Heavy Weight/High Frequency
AB752 – Concealed Ball Bearing – Steel
AB852 – Concealed Ball Bearing – Brass/Stainless Steel

Available in sizes 4½," 5" and 6"

Concealed, Non-Rising, Removable Pin
Threaded Concealed Plug Beveled Surface Leaves
Non-Handed

AB702

AB752

SWING CLEAR HINGES

Full Mortise – AB7501 size 5"
Half Mortise – AB7511 size 5"
Full Surface – AB7523 size 5"
Half Surface – AB7534 size 5"

Three Knuckle Steel Pin Two Concealed Ball Bearings Self Lubricating Delrin Bushings Concealed Non Rising Removable Pin Threaded Concealed Plug

AB7511

HALF MORTISE

For Hollow Metal or Wood Door in Channel Iron Frames

Standard Weight/Medium Frequency
AB701 – Concealed Ball Bearing – Steel
AB801 – Concealed Ball Bearing – Brass/Stainless Steel

Available in sizes 4½" and 5"

Heavy Weight/High Frequency
AB751 – Concealed Ball Bearing – Steel

Available in sizes 4½," 5" and 6"

Concealed, Non-Rising, Removable Pin
Threaded Concealed Plug Beveled Surface Leaf
Non-Handed

AB701

AB751

HALF SURFACE

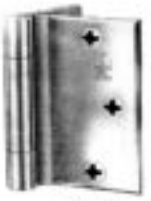
Standard Weight/Medium Frequency
AB703 – Concealed Ball Bearing – Steel
AB803 – Concealed Ball Bearing – Brass/Stainless Steel

Available in sizes 4½" and 5"

Heavy Weight/High Frequency
AB753 – Concealed Ball Bearing – Steel
AB853 – Concealed Ball Bearing – Brass/Stainless Steel

Available in sizes 4½," 5" and 6"

Concealed, Non-Rising, Removable Pin
Threaded Concealed Plug Beveled Surface Leaf
Non-Handed



AB703

AB753

AB7534

AB7501

AB7523

Tubelite P092 = BB1191 Special

5 KNUCKLE HINGES

FULL MORTISE

For Wood or Hollow Metal Doors (Template)

Standard Weight/Medium Frequency
1279—Plain Bearing—Steel
BB1279—Two Ball Bearing—Steel
1191—Plain Bearing—Brass/Stainless Steel*
BB1191—Two Ball Bearing—Brass/Stainless Steel*

Plain Bearing Available in sizes 2 x 2, 2½ x 2½, 3 x 3, 3½ x 3½, 4 x 4, 4½ x 4, 4½ x 4½, 5 x 4, 5 x 4½, 5 x 5, 6 x 4½, 6 x 5 and 6 x 6

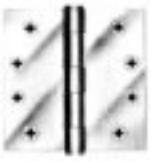
Ball Bearing Available in all above sizes except 2 x 2 and 2½ x 2½

Heavy Weight/High Frequency
BB1168—Four Ball Bearing—Steel
BB1199—Four Ball Bearing—Brass/Stainless Steel*

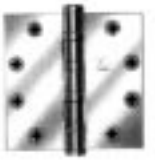
Available in sizes 4½ x 4, 4½ x 4½, 5 x 4, 5 x 4½, 5 x 5, 6 x 4½, 6 x 5, 6 x 6, 8 x 6 and 8 x 8

Five Knuckle Button Tip

*With Stainless Steel Pin



BB1279



BB1168

For information concerning Wide Throw applications, contact your local Hager sales representative or the Hager sales office.

FULL SURFACE

Standard Weight/Medium Frequency
BB2110—Two Ball Bearing –Brass/Stainless Steel*
BB2171—Two Ball Bearing—Steel

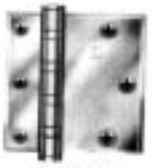
Available in sizes 4 ½" and 5"

Heavy Weight/High Frequency
BB2109—Four Ball Bearing Brass/Stainless Steel*
BB2169—Four Ball Bearing Steel

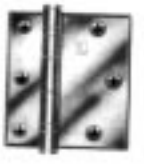
Available in sizes 4 ½", 5" and 6"

Five Knuckle Beveled Surface Leaves Non-Rising Removable Pin Reversible

*With Stainless Steel Pin



BB2109



BB2110

HALF MORTISE

For Hollow Metal or Wood Doors in Channel Iron Frames

Standard Weight/Medium Frequency
BB1109—Two Ball Bearing—Brass/Stainless Steel*
BB1129—Two Ball Bearing—Steel

Available in sizes 4½" and 5"

Heavy Weight/High Frequency
BB1138—Four Ball Bearing—Steel
BB2098—Four Ball Bearing—Brass/Stainless Steel*

Available in sizes 4½" 5" and 6"

Five Knuckle Beveled Surface Leaf Non-Rising Removable Pin Reversible

*With Stainless Steel Pin

BB1109

BB1138

HALF SURFACE

Standard Weight/Medium Frequency
BB1173—Two Ball Bearing—Steel
BB2112—Two Ball Bearing—Brass/Stainless Steel

Available in sizes 4" 4½" and 5"

Heavy Weight/High Frequency
BB1163—Four Ball Bearing—Steel
BB2113—Four Ball Bearing—Brass/Stainless Steel

Available in sizes 4½" 5" and 6"

Five Knuckle Button Tip Beveled Surface Leaf Non-Rising Removable Pin Reversible

BB1173

BB1163

SWING CLEAR HINGES

Half Mortise — BB1264 size 5"
Full Surface — BB1266 size 5"
Full Mortise — BB1262 sizes 4½" and 5"
Half Surface — BB1270 size 5"

Five Knuckle Steel with Stainless Steel Pin Four Ball Bearings

Designed to swing doors completely clear of the opening when door is opened 95 degrees.

When opened 90 degrees, door projects 1¾" past stop of the frame.

BB1264

BB1270

BB1266

BB1262

AB7502, AB7512, BB1265, BB1263 — When used on beveled Edge Doors.

SPECIALTY HINGES

EXPOSED ELECTRIC HINGES

Exposed Contacts
4" hinges are available with 2 or 3 contacts. 4½" and 5" are available with 2, 3 or 4 contacts.

Exposed Switches
Available in 4", 4½" and 5" hinges. Miniature push button is a break-before make, single pole, double throw switch, it is rated at 250 milliamps, 50 volts DC, non-inductive load.

Exposed Contacts/Switch Hinges
This is a combination of 2 or 3 contacts and 1 switch.

All Exposed Electric Contact and/or Switch Hinges are furnished with Non-Removable Pins.

E2

E1S

MAX. ELECTRICAL RATING			
SWITCH		CONTACT	
VOLTS	30V dc	VOLTS	30V dc
AMPERES	500 MA or 30V dc/ac 1.0 A	AMPERES	500 MA or 30V dc/ac 1.0 A

LOOSE JOINT HINGE FULL MORTISE

For Wood or Hollow Metal Doors (Template) Standard Weight/ Medium Frequency

920—Plain Bearing, Steel
AB920—Anti-Friction Bearing, Steel

Available in sizes 4½ x 4, 4½ x 4½

Two Knuckle Square Corner Steel Pins

920

AB920

CONCEALED ELECTRIC HINGES

Standard Wt.: AB700, AB800, BB1191, BB1279
Heavy Wt. AB750, AB850, BB1168, BB1199

Available in sizes 4½" x 4", 4½" x 4½", 5" x 4", 5" x 4½", 5" x 5"
Material: Steel, Brass & Stainless Steel

Electric Monitor Only—EMN
The EMN is a monitoring hinge with a concealed switch. This switch is a subminiature, snap action, SPDT and rated at 1 AMP, 48 Volts, DC maximum and fully adjustable.

Electric Through-Wire Only—ETW
The ETW is a through-wire hinge which provides four (4) continuous electric conductors for transfer of current or signals from frame to door.

Electric Through-Wire With Monitoring—ETM
The ETM is a combination of the Hager Through-Wire and Monitoring Hinges. This hinge offers both four (4) continuous electrical conductors and the concealed monitoring switch. Fully adjustable.

Patents and Underwriters Laboratory listings have been applied for.

Templates available upon request.

MAX. ELECTRICAL RATING			
SWITCH		CONTACT	
VOLTS	48V dc/ac	VOLTS	48V dc/ac
AMPERES	1.0 A	AMPERES	1.0 A

EMN

ETM

ETW

SPRING HINGES – 1250 SERIES

1250 Standard Weight Square Corner Steel
Available in sizes 4 x 4, 4½ x 4, 4½ x 4½
1251 Standard Weight ¼" Radius Round Corner Steel
Available in sizes 4 x 4, 4½ x 4, 4½ x 4½
1252 Standard Weight ⅜" Radius Round Corner Steel
Available in sizes 4 x 4, 4½ x 4, 4½ x 4½

Maximum Door Size

For labeled doors 3' x 7' the maximum door size is based on the limits set forth by NFPA Standard #80. Labeled doors require Ball Bearing hinges.

For non-labeled doors over 7'6" in height, use an additional hinge for each additional 30" of height or fraction thereof.

1250

1250 Series	Max. Door Wt. (lbs.)	*Spring Hinges	B/B Hinges
(Full Mortise)	60	1 ea	2 ea
4" x 4"	85	**2 ea	1 ea
	110	**3 ea	—
(Full Mortise)	70	1 ea	2 ea
4½" x 4"	115	**2 ea	1 ea
4½" x 4½"	150	**3 ea	—

NOTES: *1. For maximum versatility, use all spring hinges especially when excessive air pressure or other adverse job conditions are present.

**2. Spring tension may not be required on all hinges.

SPECIALTY HINGES

ANCHOR HINGES

Heavy Weight Anchor Type Hinges For Use on Average Weight Doors Receiving High Frequency Use.

AB7505/BB1160 — ANCHOR HINGE STEEL ONE PRONG
AB8505/BB1190 — ANCHOR HINGE BRASS / STN STL ONE PRONG
AB7506/BB1162 — ANCHOR HINGE STEEL TWO PRONG / SQUARE
AB8506/BB1192 — ANCHOR HINGE BRASS / STN STL TWO PRONG / SQUARE
AB7508/BB1166 — ANCHOR HINGE STEEL TWO PRONG / BEVELED
AB8508/BB1196 — ANCHOR HINGE BRASS / STN STL TWO PRONG / BEVELED
AB7507/BB1165 — ANCHOR HINGE STEEL 1 LONG / 1 SHORT PRONG / SQUARE
AB8507/BB1195 — ANCHOR HINGE BRASS / STN STL 1 LONG / 1 SHORT PRONG / SQUARE
AB7509/BB1167 — ANCHOR HINGE STEEL 1 LONG / 1 SHORT PRONG / BEVELED
AB8509/BB1197 — ANCHOR HINGE BRASS / STN STL ONE LONG / 1 SHORT PRONG / BEVELED

Anchor Hinges available in both three and five knuckle style hinges. AB7507 / BB1165 / AB8507 / BB1195 / AB7597 / BB1175 / AB8597 / BB1175 To be used with Concealed Door Holder and Closers

Anchor Hinges are ordered individually as "EACH". Order one pair of heavy weight full mortise hinges (AB750, BB1168 or BB1199) to be used with the Anchor Hinge.

Note: Anchor Hinges are Handed – specify hand.

AB7505

BB1192

AB8507

ALUMINUM ENTRANCE DOOR HINGES (Slip-In Butts)

Slide in template, For Use on Aluminum Doors with Aluminum Frames when inserting the hinge leaves through a slot in the door or frame.

AB7011—One leaf tapped, Steel, 3/16" swage.
AB7012—Both leaves tapped, Steel, 3/16" swage.
AB8011—One leaf tapped, Brass or Stainless Steel, 3/16" swage.
AB8012—Both leaves tapped, Brass or Stainless Steel, 3/16" swage.

Three Knuckle Teflon Coated Steel Pin Two Concealed Ball Bearings Self Lubricating Delrin Bushings Concealed Non Rising Removable Pin Threaded Concealed Plug

Available in sizes 3½ x 3½, 4 x 4, 4½ x 4, 4½ x 4½
Note: BB7011 and BB8011 are handed, specify hand.

1277, BB1277—Both leaves tapped, Steel, 3/16" swage.
1278, BB1278—One leaf tapped, Steel, 3/16" swage.
1577, BB1577—Both leaves tapped, Brass or Stainless Steel Pin, 3/16" swage.
1578, BB1578—One leaf tapped, Brass or Stainless Steel Pin, 3/16" swage.

Five Knuckles Non-Rising Removable Pin Button Tip

Available in sizes 3½ x 3½, 4 x 4, 4½ x 4, 4½ x 4½
Note: 1579, BB1578, 1278, BB1278 are handed, specify hand.

BB7011

BB7012

CAMTROL HOSPITAL HARDWARE

610

Anchor arms are made of 1010 carbon cold rolled steel. Cam is investment cast non-magnetic stainless steel. Cam follower is nylon. Spring is .099" diameter music wire spring steel. Camtrol housing is heavy brass investment casting. Door Stop/Release has forged brass mounting plate and die cast roller segments enclosed in steel dust box.

Door Release 610 – Counter balanced rolling segment tilts forward when used as door stop. Stop rolls back into mortised segment when two way swing is desired.

Camtrol Double Acting Pivot - Specifically designed for use with door release to serve as rescue hardware set for hospitals and nursing homes.

Camtrol Pivot has only three moving parts. It is connected to door with anchor arms.

Camtrol is primarily designed for 1¾" door weighing not more than 100 pounds and not over 3' wide or 7' high.

No radius required on end of door.

600

510/600 – Hospital Door Set - Wood Floor Mortise Application: Set consists of Door Release and Camtrol Pivot for Mortise application.
Pivot Housing - 3⅞" x 1¼" x ⅞"

511/611 – Hospital Door Set - Concrete Floor Application: Set consists of Door Release and Camtrol Pivot for Surface application.
Pivot Housing - 3⅞" x 1¼" x ⅞"

611

512/612 – Hospital Door Set - Surface Application: Set consists of Door Release and Camtrol Pivot for Surface application.
Pivot Housing - 3⅞" x 1¼" x ⅞"

612

500 Series Hospital set does not include Doorstop/Release

DOUBLE LIPPED STRIKE

For use with Hagers' 510, 511, 512, 600, 611 & 612 Hospital sets. Protects door frame from latch bold drag. Available in US26D - Satin Chrome finish.

457 – 5¼" **458** – 6¼" with Stop

456 – 5¼" **455** – 6¼" Center with Stop

451 – 5¼" **452** – 6¼"

453 – 5¼" **454** – 6¼"

PIVOT HINGES

REINFORCING PIVOT

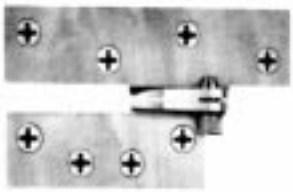
Hager's reinforcing Pivot Hinge is the only surface mounted reinforcing hinge available for onsite installation. Here's the answer to that ever-present problem of hinges with excessive wear and tear. The Hager reinforcing pivot hinge can be installed without special preparation by normal maintenance personnel and is a simple solution to the problem of loose screws, distorted hinge leaves, pulled open knuckles and splits on wood doors. Handing must be specified. Gauge of metals is 187.

251
For Use With
3½" Wide Hinges

252
For Use With
4" Wide Hinges

253
For Use With
4½" Wide Hinges

254
For Use With
5" Wide Hinges



FULL SURFACE HINGE

255
For Use With
3½" Wide Hinges

256
For Use With
4" Wide Hinges

257
For Use With
4½" Wide Hinges

258
For Use With
5" Wide Hinges

HALF SURFACE HINGE

HINGE SELECTION DATA

NUMBER OF HINGES PER DOOR.

	Number of Hinges
Door	
60 inches high and under	2
Over 60 inches to 90 inches	3
Over 90 inches to 120 inches	4

SIZE FOR DOORS

Door sizes given are jamb opening dimensions. Hinges are regular weight except where indicated "heavy weight". However, heavy weight hinges should be specified where high frequency service is expected, even though regular weight is shown in table.

Thickness (inches)	Door width; (inches)	Hinge height (inches)
Doors:		
1⅛	to 36	3
1⅜	to 32	3½
	33 and over	4
1¾	to 36	4½
	37 to 48	5 Heavy Wt.
	49 and over	6 Heavy Wt.
2, 2¼ and 2½	to 42	5 Heavy Wt.
	43 to 50	6 Heavy Wt.

TRIM CLEARANCE FOR WOOD OR HOLLOW METAL DOORS

Clearance is estimated on hinges set back ¼" for door up to 2¼", and ⅜" for doors 2½" to 3" in thickness.

Thickness of Door	Width of Hinge	Maximum Clearance Provided
1⅜"	3½"	1¼"
	4"	1¾"
	4½"	2¼"
1¾"	4"	1"
	4½"	1½"
	5"	2"
	6"	3"
2"	4½"	1"
	5"	1½"
	6"	2½"
2¼"	5"	1"
	6"	2"
2½"	5"	¾"
	6"	1¾"
	8"	3¾"

The hinge WIDTH of Half Mortise, Half Surface, and Full Surface Hinges is standard, depending on the hinge LENGTH. *Note* that in these hinge types, and amount of hinge clearance available is determined by the amount of offset and not by the hinge width.

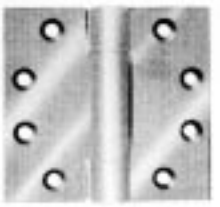
INSTITUTIONAL HARDWARE

All Institutional Hardware shipped with Torx style fasteners as standard.

SECURITY HINGES

IHTAB750/IHTAB850
Institutional Prison Hinge - Abbreviation IHT
For use on Heavy Weight Doors ranging from 200-300 Lbs.
Stainless Steel ANSI A5III Steel ANSI A8III
With Stainless Steel Pin
SIZE OPEN (Inches)
4½ x 4½, 5 x 4½, 5 x 5

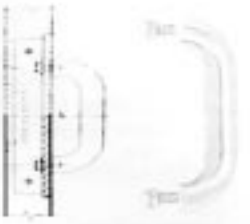
HB950/HB953
Full Mortise • Concealed Hagerton Bearings • Heavyweight • Template
Investment Cast Hinge, For use on Heavy Door ranging from 250-600 lbs.
Steel ANSUI A8111 with steel pin
Stainless steel ANSI A5111 with stainless steel pin
SIZE OPEN (Inches) 4½ x 4½



990/992
Utility Hinge
Pass Through Hinge with Stop
Full Surface Heavy Weight Prison Hinge.
For use on small doors, access doors and observation shutters. Two hinges support the weight of 150 lbs.
SIZE (Inches)
3 x4

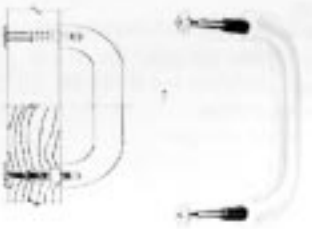
SECURITY PULLS

P4E
Pull for use on security hollow metal doors.
Stainless Steel



P8N
Pull for use on security hollow metal doors.
Silicon Bronze w/Security Screws

T4E
Pull with extender studs for use on security wood doors. Silicone Bronze w/Security Screws



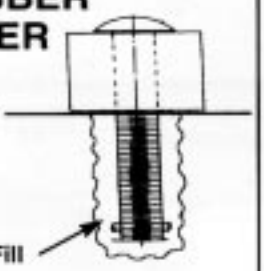
SECURITY FLUSH PULLS

15P
Finger Pull with Lugs for use concealed mounting in security applications.
Finish 32D

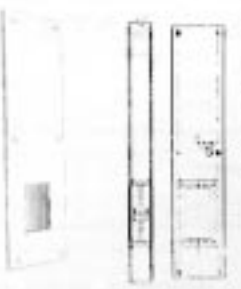
26N
Finger Pull for use in security applications, with four security screws for mounting.
Finish US4, 32D

SECURITY RUBBER DOOR BUMPER

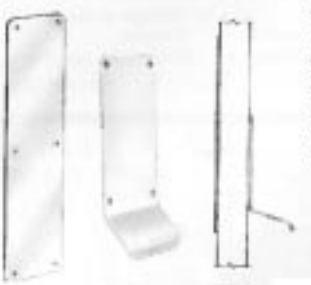
269F
Rubber Door Bumper for use in security application. Meets or exceeds the criteria set forth for a 300 pound impact test
Finish: 2C



SECURITY PUSH/PULL PLATE SETS



25P
4" x 16" PLATE SIZE
⅛" PROJECTION
1¾" x 3¹⁄₁₆" OPENING
¾" CLEARANCE IN CUP
MATERIAL: Stainless Steel
FINISHES: 32D
PACKED: 1 Set (2 Plates) per Box w/ 8/32 Security Torx FHMS and Blank Head Sex Nuts

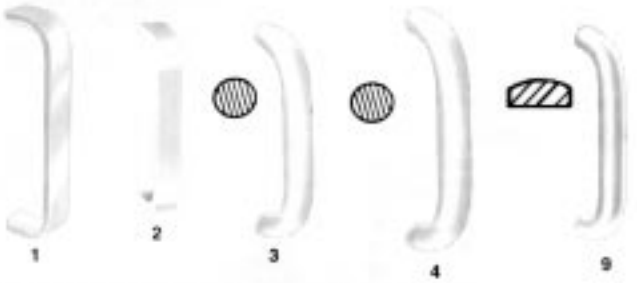


122L
4" x 16" PUSH PLATE
⅛" PROJECTION
4" x 9¼" PULL PLATE
2⅛" LIP PROJECTION
MATERIAL: Stainless Steel
FINISHES: 32D
PACKED: 1 Set (1 Push/1Pull) per Box w/Security Torx, Fasteners and Blank Head Sex Nuts as Required.

PUSH PLATE | PULL PLATE | SIDE VIEW

TRIM & AUXILIARY HARDWARE

WROUGHT DOOR PULLS



1 – MODIFIED HALF ROUND
1/2" x 1" Base /2" Projection
1 1/2" Clearance
AVAILABLE:
With Standard Base Centers (CTC)
1E = 6", 1G = 8", 1J = 10" 1L = 12"
(OTHER CENTERS ON SPECIAL ORDER)

2 – RECTANGULAR
3/8" x 1 1/4" Base /2" Projection
1 5/8" Clearance
AVAILABLE:
With Standard Base Centers (CTC)
2E = 6", 2G = 8", 2J = 10" 2L = 12"
(OTHER CENTERS ON SPECIAL ORDER)

3 – ROUND
3/4" Dia. Base / 2 1/4" Projection
1 1/2" Clearance
AVAILABLE:
With Standard Base Centers (CTC)
3E = 6", 3G = 8", 3J = 10" 3L = 12"
(OTHER CENTERS ON SPECIAL ORDER)

4 – ROUND
1" Dia. Base / 2 1/2" Projection
1 1/2" Clearance
AVAILABLE:
With Standard Base Centers (CTC)
4G = 8", 4J = 10" 4L = 12"
(OTHER CENTERS ON SPECIAL ORDER)

9 – OVAL
3/4" Oval Base / 2 1/4" Projection
1 1/2" Clearance
AVAILABLE:
With Standard Base Centers (CTC)
9E = 6", 9G = 8", 9J = 10" 9L = 12"
(OTHER CENTERS ON SPECIAL ORDER)

CAST DOOR PULLS

5N – 5/8" x 1 3/8" Base / 2" Projection
1 3/8" Clearance / 6 1/8" Length
5 1/2" Base Centers

6N – 1" Dia. Base / 2 1/8" Projection
1 1/2" Clearance / 6 1/2" Length
5 1/2" Base Centers

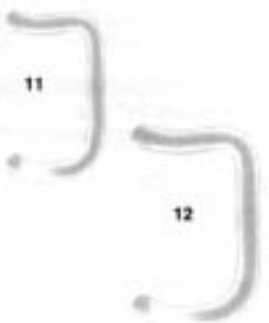
7N – 2" Dia. Base / 2 1/8" Projection
1 1/2" Clearance / 7 1/2" Length
5 1/2" Base Centers

8N – 2" Dia. Base / 2 1/8" Projection
1 1/2" Clearance / 7 1/2" Length
5 1/2" Base Centers

OFFSET PULLS

11 – ROUND
3/4" Dia. Base / 2 1/4" Projection
3" Offset
AVAILABLE:
With Standard Base Centers (CTC)
11E = 6", 11G = 8", 11J = 10" 11L = 12"
(OTHER CENTERS ON SPECIAL ORDER)

12 – ROUND
1" Dia. Base / 2 3/4" Projection
3" Offset
AVAILABLE:
With Standard Base Centers (CTC)
12G = 8", 12J = 10" 12L = 12"
(OTHER CENTERS ON SPECIAL ORDER)



NOTE: Pulls may be ordered BTB. See Fig. 3. Change first digit to 2, ie "21E"

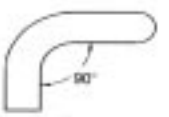


Fig. 1
90° Standard Offset

Fig. 2
"X" Option
45° Offset
May Be
Ordered by
Prefixing
Product
Number w "X"
ie. X11g

Fig. 3
Back to Back (BTB)
Mounting of
Two Units as
One Set

FLUSH PULLS

15N – FLUSH CUP PULL
3 1/2" x 5" Face
1 3/4" x 3 1/16" Opening
1/8" Projection
3/4" Clearance in Cup

15N

16R – FLUSH CUP PULL PLATE
4" x 16" .050 Plate Size
1 3/4" x 3 1/16" Opening
3/4" Clearance in Cup

16R

16N – FLUSH CUP PULL
1 15/16" x 3" Face
1 5/8" x 2 11/16" Base
1/8" Projection
5/8" Clearance in Cup
MATERIAL: Cast Brass
FINISHES: 3, 10, 10B, 26 & 26D Only

17N – FLUSH CUP PULL
2 1/2" x 4" Face
2 1/4" x 3 3/4" Base
3/4" Clearance in Cup
MATERIAL: Cast Brass
FINISHES: 3, 10, 10B, 26 & 26D Only

TRIM & AUXILIARY HARDWARE

PUSH PLATES

MATERIAL GAUGE .050" ALUMINUM, BRASS, BRONZE & STAINLESS STEEL
STANDARD SIZES: 3" x 12", 3½" x 15", 4" x 16", 6" x 16", 8" x 16"

30S
Beveled

40R
Not Beveled

50T
Not Beveled

PULL PLATES ARE SPECIFIED BY COMBINING PULL AND PLATE NUMBERS BELOW

PULL PLATE NUMBER				
SQUARE CORNERS	ROUND CORNERS	ROUNDED	PULL NO.	PULL CTC
31E	41E	51E	1E	6"
31G	41G	51G	1G	8"
31J	41J	51J	1J	10"
31L	41L	51L	1L	12"
32E	42E	52E	2E	6"
32G	42G	52G	2G	8"
32J	42J	52J	2J	10"
32L	42L	52L	2L	12"
33E	43E	53E	3E	6"
33G	43G	53G	3G	8"
33J	43J	53J	3J	10"
33L	43L	53L	3L	12"
34G	44G	54G	4G	8"
34J	44J	54J	4J	10"
34L	44L	54L	4L	12"
39J	49J	59J	9J	6"
39L	49L	59L	9L	8"
35N	45N	55N	5N	5½"*
36N	46N	56N	6N	5½"*

PULL PLATES

ANY WROUGHT OR CAST PULL CAN BE USED

30 SERIES

40 SERIES

50 SERIES

PUSH BAR UNITS

125S – ⅜" X 1¼" BAR SIZE
Base Plate 1" x 3"
Projection 2⅛"

126S – ⅜" X 1¼" BAR SIZE
Base Plate 1" x 3"
Projection 2⅛"

127S – ⅜" X 1¼" BAR SIZE
Base Plate 1" x 3"
Projection 2⅛"

130S – 1" ROUND BAR STOCK
Bases 1" Dia.
Projection 2½"

131S – 1" ROUND BAR STOCK
Base Plates 2" Dia.
Projection 2⅝"

133S – ¾" ROUND BAR STOCK
Bases ¾"" Dia.
Projection 2¼"

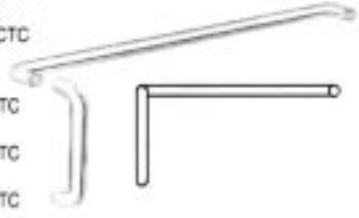
134S – ¾" ROUND BAR STOCK
Base Plates 1¼"" Dia.
Projection 2⅜"

PUSH BARS AND SETS ARE CUSTOM MADE TO FIT SPECIFIED DOOR WIDTHS.

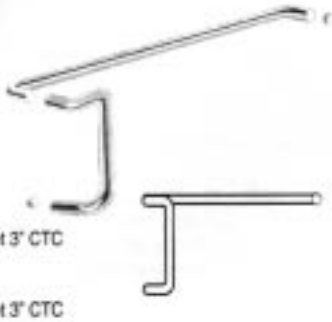
PUSH/PULL SETS

PUSH/PULL SET
138P – 1" ROUND BAR
Bases: 1" Dia., 2½" Projection
139P – ¾" ROUND BAR
Bases: ¾" Dia., 2¼" Projection

PUSH/PULL SET
150 – ¾" ROUND BAR
Bases: ¾" Dia., 2¼" Projection, Pull 8" CTC
151 – ¾" ROUND BAR
Bases: ¾" Dia., 2¼" Projection, Pull 10" CTC
152 – ¾" ROUND BAR
Bases: ¾" Dia., 2¼" Projection, Pull 12" CTC
PUSH/PULL SET
153 – 1" ROUND BAR
Bases: 1" Dia., 2½" Projection, Pull 10" CTC
154 – 1" ROUND BAR
Bases: 1" Dia., 2½" Projection, Pull 10" CTC
155 – 1" ROUND BAR
Bases: 1" Dia., 2½" Projection, Pull 18" CTC

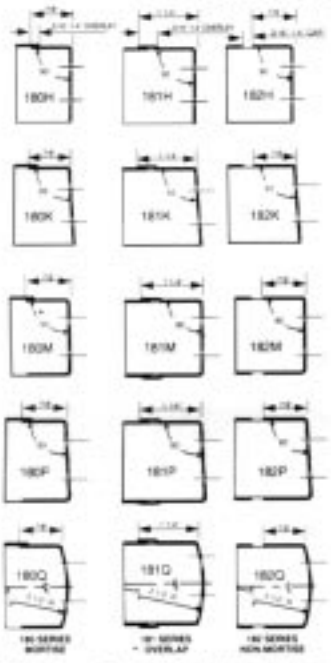


PUSH/PULL SET
156 – ¾" ROUND BAR
Push Bar: 2" Projection
Pull 8" CTC, 2¾" Projection Offset 3" CTC
157 – ¾" ROUND BAR
Push Bar: 2" Projection
Pull 10" CTC, 2¼" Projection
Offset 3" CTC
158 – ¾" ROUND BAR
Push Bar: 2" Projection
Pull 12" CTC, 2¼" Projection
Offset 3" CTC
PUSH/PULL SET
159 – 1" ROUND BAR
Push Bar: 2½" Projection
Pull 10" CTC, 2¼" Projection Offset 3" CTC
160 – 1" ROUND BAR
Push Bar: 2½" Projection
Pull 12" CTC, 2¾" Projection Offset 3" CTC
161 – 1" ROUND BAR
Push Bar: 2½" Projection
Pull 18" CTC, 2¾" Projection Offset 3" CTC



TRIM & AUXILIARY HARDWARE

DOOR EDGINGS AND CORNER GUARDS



MATERIAL: .045–.050 Aluminum or Stainless Steel.
FINISH: US28, US32D
STANDARD LENGTHS: 40" – 42"
LEG ON THE DOOR EDGE:
180 series 1 3/4" minus 1/32"
181 series 1 3/4" plus 1/32"
182 series 1 3/4" plus 1/32"

PACKED: One per Bag with #6 x 3/4" flat head tapping screws.
STANDARD LENGTHS: 40"—42". Other lengths made to order.
OPTIONS: Butt cutoffs, furnish details.
Edgings w/out outs are handed.
TO ORDER: Give number, size, finish and door thickness.
Meets ANSI A156.6 for Door Edging type No. 180 & 181

185G CORNER GUARD

MATERIAL: Aluminum or Stainless Steel
FINISH: US28; US32D
SIZE: 3" x 3" x 40" Standard
PACKED: One per Bag w/#6 x 5/8" Truss Head Screws
OPTION: Mounting w/Double Face Tape Instead of Screws

DOOR PROTECTION PLATES

STRETCHER PLATE

MOP PLATE

KICK PLATE

ARMOR PLATE

190S/193S/194S/196R/198S/204S/ 214S/220S/223S/224S/225S

STANDARD SIZE: Mop plate 4", 6" High; Kick Plate 8", 10", 12" High; Armor Plate 14" to 48" High
PACKED: One per Bag with #6 x 5/8" Truss-head screws.
OPTION: At extra charge, counter sunk holes, specify "CSK".
TO ORDER: Give number, size, height first and finish. Plates are sized on even inches. Odd size available, priced next size larger.
KICKPLATES 2" LESS THAN DOOR WIDTH
MOP PLATES 1" LESS THAN DOOR WIDTH

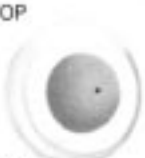
NUMBER	MATERIAL	THICKNESS	B&S GA.	US GA.	BEVEL	FINISH
190S	Metal*	.050"	16	18	None	**
193S	Metal*	.050"	16	18	B3E	**
194S	Metal*	.050"	16	18	B4E	**
196R	Metal*	.050"	16	18	None	**
198S	Metal(1)	.038"	—	20	None	32D
204S	Clear Plastic	1/8"	—	—	B4E	Clear "PC"
214S	Plastic Laminate(2)	1/8"	—	—	B4E	Black "PK" Brown "CO" Grey "PG"
220S	Metal*	.062"	14	16	None	**
223S	Metal*	.062"	14	16	B3E	**
224S	Metal*	.062"	14	16	NONE	**
225S	Kydex(2) ®	.081"	—	—	NONE	—

* Aluminum, Brass, Bronze, Stainless Steel.
** All Standard Finishes, see Page #P

1) Stainless Steel Only
2) Color Selection, other than standard, Subject to Min. Order Quantity. Price on Application.

WALL STOPS
W/CONCEALED MOUNTINGS

232W
CONVEX WALL STOP
2 3/8" Diameter
1 3/16" Projection



2332W
CONVEX WALL STOP
2 3/8" Diameter
1 3/16" Projection

236W
CONCAVE WALL STOP
2 3/8" Diameter
1 3/16" Projection

237W
CONCAVE WALL STOP
2 3/8" Diameter
1 3/16" Projection

DOME STOPS

241F
DOME STOP
1 7/8" Diameter
Base 1/8" TK.

243F
DOME STOP
1 7/8" Diameter
Base 1/8" TK.

FLOOR AND WALL STOPS

267F
CAST STOP
2 1/4" Diameter Base
3" High

268F
CAST STOP
and HOLDER
2 1/4" Diameter Base
3" High

252F
CAST STOP
1 1/2" x 2 1/2" Base
2 11/16" High

255W
CAST STOP
2 1/2" Diameter Base
3 5/8" High

256W
CAST STOP
and HOLDER
2 1/4" Diameter Base
3 13/16" High

252F
CAST STOP
1 5/8" x 2 5/8" Base
2 7/8" High

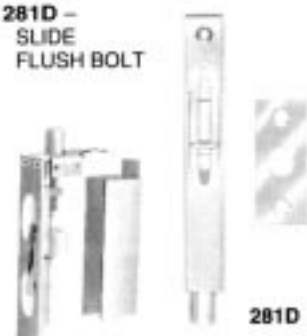
NOTE: ABOVE STOPS ALSO AVAILABLE W/SURFACE MOUNTING

TRIM & AUXILIARY HARDWARE

MANUAL FLUSH BOLTS

280X – DUST PROOF STRIKE

281D – SLIDE FLUSH BOLT



281D

282D/283D* – LEVER EXTENSION FLUSH BOLT

282D

283D

*For Wood Composite Door Specify "283D"

SURFACE BOLTS

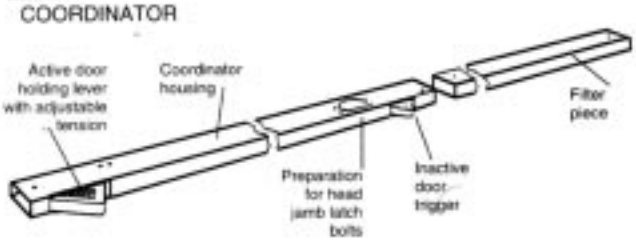
275D/276D –
SURFACE BOLTS
275D – 8" Length
276D – 12" Length
3/4" x 1" Bolt Size
1" Bolt Throw

278D - 6" or 8"
SURFACE BOLT
Base: 11/16" Bolt: 1/2"
Throw: 15/16"
Knob: 1/2" Dia.: 11/16" Proj.
Material: Brass
Finishes: 3 and 26D only

COORDINATORS

296D – COORDINATING DEVICE

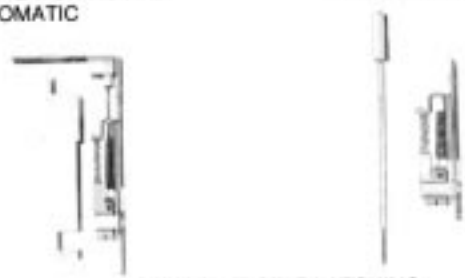
297D – COORDINATOR



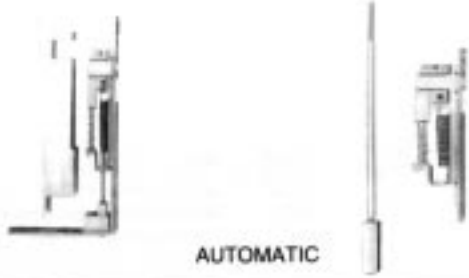
CONSTANT LATCHING FLUSH BOLT SETS

294D –
FOR WOOD COVERED COMPOSITE DOORS SET CONSISTING OF 1 SELF LATCHING AND 1 AUTOMATIC

293D –
FOR METAL DOORS SET CONSISTING OF 1 SELF LATCHING AND 1 AUTOMATIC



CONSTANT SELF-LATCHING

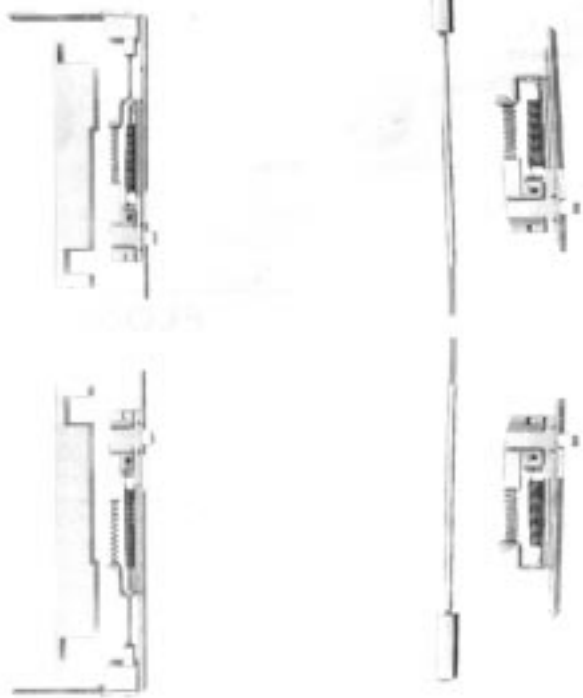


AUTOMATIC

AUTOMATIC FLUSH BOLT SETS

291D –
AUTOMATIC for WOOD COVERED COMPOSITE DOORS

292D –
AUTOMATIC for METAL DOOR



TRIM & AUXILIARY HARDWARE

ROLLER LATCHES

318D
ROLLER LATCH
MATERIAL: Forged Brass
LATCH FACE: 1" x 3⅜"
STRIKE SIZE: 1⅛" x 2¾"
.060" Wrought Metal
FINISH: 10, 10B & 26D only.

318
STRIKE

1442
ROLLER LATCH
MATERIAL: Forged Brass
LATCH FACE: 1" x 3⅜"
STRIKE SIZE: 1¹¹/₁₆" x 2¼" ; Cast Metal
FINISH: 10, 10B & 26D only.

1442
STRIKE

1443
ASA STRIKE

1443
ROLLER LATCH
MATERIAL: Forged Brass
LATCH FACE: 1" x 3⅜"
STRIKE SIZE: ASA 1¼" x 4⅞"
.090" Wrought Metal
FINISH: 10, 10B & 26D only.

318D
ROLLER LATCH W/STOP
MOUNTS IN HEADER W/STRIKE IN TOP OF DOOR
MATERIAL: Forged Brass
LATCH FACE: 1½" WIDE; 4½" x ½" Angle Stop;
Silencers Integral with Latch
STRIKE SIZE: 1⅛" x 2¼" Wrought Metal
FINISH: 10B & 26D only.

318S
STRIKE

PUSH/PULL LATCH

Optional Mounting
Positions for 310D - 310L

310D
PUSH/PULL
LATCH

310L
PUSH/PULL
LATCH
FOR
LEAD BARRIER
DOORS

ENGRAVED LATCH HANDLES AVAILABLE
BY SPECIAL ORDER

DOOR KNOCKERS

322V
WROUGHT BRASS
SIZE: 2" x 3¼"
with 1755 Viewer
"OPTION"
ENGRAVING

322V
(ENGRAVED)

MISCELLANEOUS PRODUCTS

307D
DOOR SILENCER
For Metal Frames

308D
DOOR
SILENCER
For Wood Frames

270F
DOOR HOLDER
1½" x 2¼" Base
4¼" Arm

271F
DOOR HOLDER
1½" x 2¼" Base
5¹³/₁₆" Arm
Cast Brass

1755
160° DOOR VIEWER
Solid Brass
Adjustable For Doors
1⅜" To 2⅛" TK.
Requires 1/2" Hole in Door
Finish: 3-26D

1756
200° Door Viewer
Solid Brass
Adjustable for Doors
1⅜" To 2⅛" TK.
Requires ⅝" Hole in Door
Finish: 3-26D

ENGRAVED ADA PLATES

368W
ADA TACTILE SIGNAGE – WOMEN
MATERIAL: ⅛" Thick Plastic with Lettering and Symbols 1/32" from Sign Surface, includes **Grade 2 Braille** Translation
Conforming to section 4.30 requirements.
SIZE: 6" x 8"
COLORS: Brown (W1) w/white symbol & lettering
Black (W2) w/white symbol & lettering
Blue (W3) w/white symbol & lettering
FASTENERS: Pressure sensitive tape.
NOTE: Individually packed in a poly bag.

368M
ADA TACTILE SIGNAGE – MEN
MATERIAL: ⅛" Thick Plastic with Lettering and Symbols 1/32" from Sign Surface, includes **Grade 2 Braille** Translation
Conforming to section 4.30 requirements.
SIZE: 6" x 8"
COLORS: Brown (W1) w/white symbol & lettering
Black (W2) w/white symbol & lettering
Blue (W3) w/white symbol & lettering
FASTENERS: Pressure sensitive tape.
NOTE: Individually packed in a poly bag.

368U
ADA TACTILE SIGNAGE – UNISEX
MATERIAL: ⅛" Thick Plastic with Lettering and Symbols 1/32" from Sign Surface, includes **Grade 2 Braille** Translation
Conforming to section 4.30 requirements.
SIZE: 8" x 8"
COLORS: Brown (W1) w/white symbol & lettering
Black (W2) w/white symbol & lettering
Blue (W3) w/white symbol & lettering
FASTENERS: Pressure sensitive tape.
NOTE: Individually packed in a poly bag.

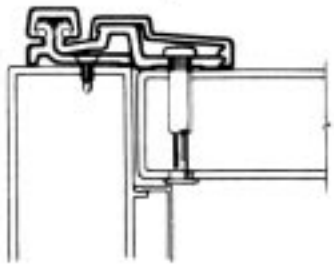
OTHER SIGNS AVAILABLE

HAGER®

ROTON

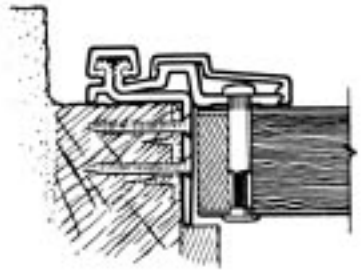
780-210
and
780-210HD

Retrofit full-surface wide throw hinge. HD Model for high frequency or heavy medium frequency doors. $1^{13}/_{16}$" frame face required. Additional clearance not required.



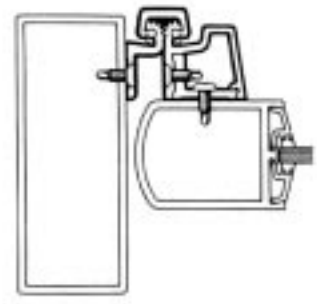
780-211
and
780-211HD

Retrofit hinge same as 780-210 for damaged wood frames. Minimum $^{1}/_{8}$" clearance required. Frame face minimum dimension $1^{11}/_{16}$".



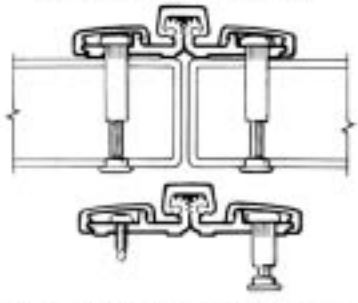
780-300HD

New or retrofit single-acting center-hung, $^{3}/_{4}$" minimum inset, narrow or widestile doors. Available heavy-duty rating only.



780-057
and
780-057HD

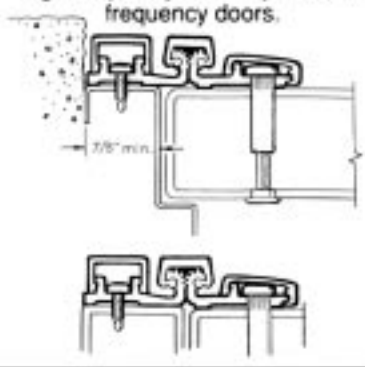
Full-surface hinge for any thickness or material with sexbolts both leaves unless otherwise specified.



Please specify fastener types required.

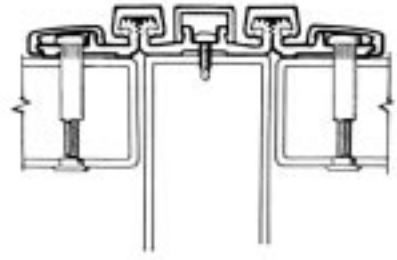
780-157
and
780-157HD

Full surface retroit for narrow frameface ($^{7}/_{8}$" required) HD Model for high frequency or heavy medium frequency doors.



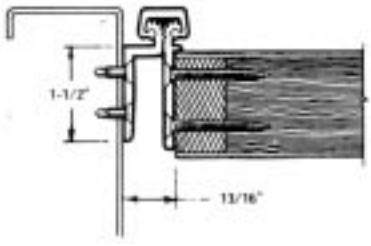
780-257HD

Retrofit with center molding for two doors on one post (post width 1" to $2^{5}/_{8}$"). Available heavy-duty rating only.



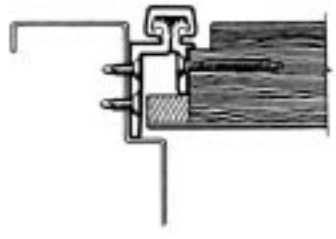
780-113
and
780-113HD

"Safety" hinge (no hinge stop) for kindergartens, nursing homes.



780-114
and
780-114HD

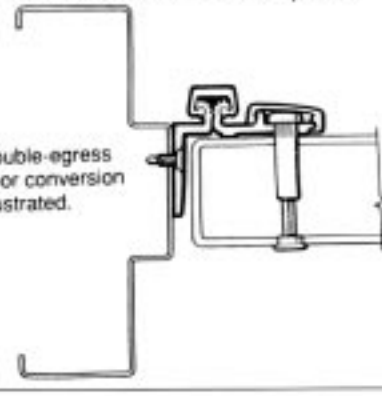
For deep inset or flush-with-frame-face applications (thin or rabbeted doors). Also center-hung.



780-155
and
780-155HD

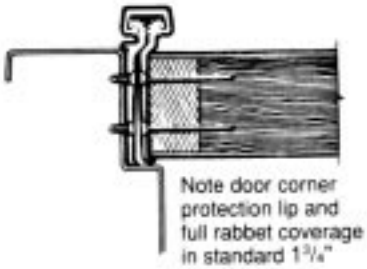
Retrofit hinge for double-egress conversion. Also for center-hung. Minimum $^{1}/_{8}$" clearance required.

Double-egress door conversion illustrated.



750-134

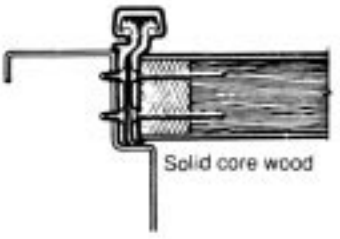
For medium frequency 1¾" solid core wood interior doors to 100 lbs., or low frequency to 150 lbs. See also 780-224.



Solid core wood only.

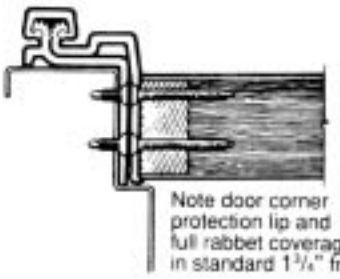
750-138

For medium frequency 1⅜" solid core wood interior doors to 100 lbs., or any material, low frequency to 150 lbs. See also 780-112.



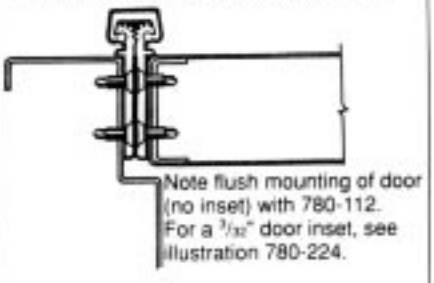
780-041 and 780-041HD

Wide-throw hinge for medium frequency 1¾" patient room doors and for handicapped classroom conversions.



780-112 and 780-112HD

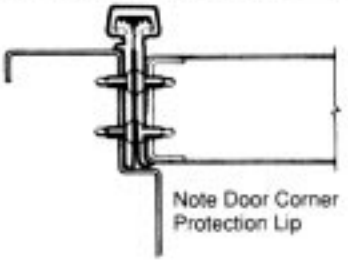
For entrance doors. HD model for high frequency or heavy medium frequency doors. 1⁹/₁₆" Leaf Depth. No Inset. Requires additional clearance ¹¹/₃₂".



Available with ratings up to 1½" hours

780-224 and 780-224HD

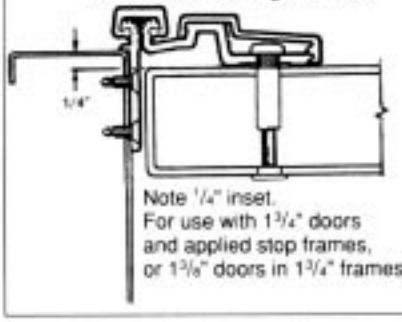
For 1¾" extrance doors. HD Model for high frequency or heavy medium frequency doors. ¹/₁₆" door inset. Requires additional clearance ¹¹/₃₂"



Available with ratings up to 1½" hours

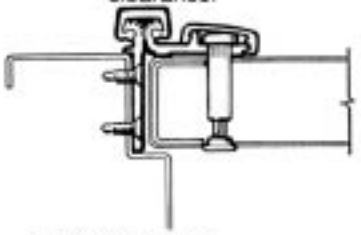
780-045 and 780-045HD

Retrofit hinge for inset door position (¼" inset). HD Model for high frequency or heavy medium frequency doors. Frame leaf depth 1⁹/₁₆". Rabbet to door edge leaf 3".



780-053 and 780-053HD

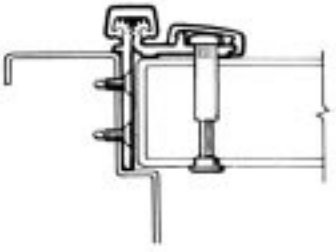
Retrofit hinge for 1⅜" and 1¾" doors. HD Model for high frequency or heavy medium frequency doors. Frame leaf depth1⁹/₁₆". Rabbet to door leaf edge 1¹⁵/₁₆". Allow ⁵/₃₂" (⅛" min) leaf clearance.



780-053 with 1¾" door and frame assembly

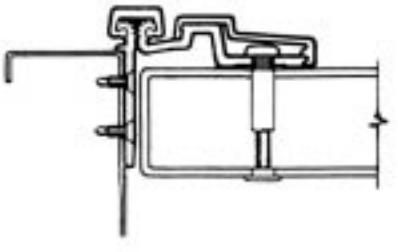
780-054 and 780-054HD

Retrofit hinge same as 780-053, except for deeper frame leaf for complete frame rabbet coverage in 1¾" frames.



780-046 and 780-046 HD

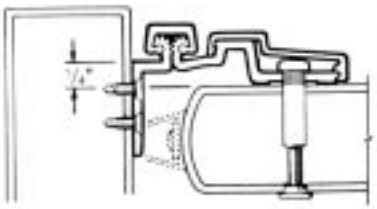
Same as 780-045, except for deeper frame leaf for more complete frame rabbet coverage. Frame leaf depth 1¹⁵/₁₆".



HAGER® ROTON

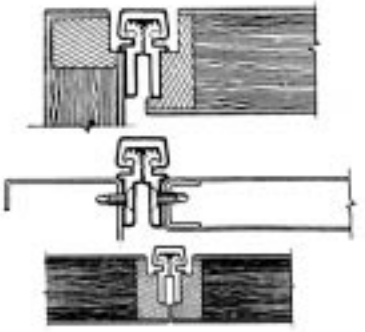
780-213
and
780-213HD

Retrofit hinge with molding similar to 780-115 except ¼" inset. For center-hung with finger guard.
See also 780-045.



780-208
and
780-208HD

General purpose hinge for custom 1¾" millwork, toilet stalls, windows, etc.



780-259
and
780-259HD

Retrofit hinge for toilet stall repair, etc.

Please indicate the type of fasteners required for each leaf with your order.

Model Selection Data

New Construction and Retrofit
Hinges are available for both new construction and renovation projects. Full surface and half surface models generally require no additional door and frame clearance. Fully concealed models require additional clearances for hinge leaves. Check the **Hager® ROTON** Catalog for specific clearance dimensions.

Standard Lengths
Hinges are manufactured for use on nominal door height. Standard hinge lengths are 83" (7'0 door), 95" (8'0 door) and 119" (10'0 door). Hinges may be ordered at actual door height.

Standard and Heavy-Duty Model
Heavy Duty models should be specified for all high frequency and/or medium frequency heavy doors. Standard Duty Models should be specified on low-medium frequency doors.

Finishes
Standard finishes are clear satin and dark bronze anodize. Gold, black and other anodize finishes are available upon request.

Installation Information
Installation instructions are packaged with all hinges. Specific dimension information is also available in the **Hager® ROTON** Catalog.

Lead Lined Doors
Hinges may be prepared for use on lead lined doors. Models 780-112 and 780-224 should be ordered by specifying "LL".

Fire Ratings
Fully concealed models 780-224 and 780-112 are available with Warnock Hersey ratings upon to 1½ hours. They may be ordered by specifying "FF".

ROTON ARCHITECTURAL SPECIFICATION

Door hinge to be **ROTON** Continuous Hinge in anodized aluminum, unhanded and finished as required. Hinge shall be a pinless assembly of three interlocking extrusions applied to the full height of the door and frame without mortising. The door leaf and jamb leaf shall be geared together for the entire length of the hinge, and joined by a channel. All unexposed working metal surfaces shall be coated with TFE dry lubricant. Vertical door loads shall be carried on acetal bearings through a full 180°. Screw holes shall be concentrated at the end of the hinge and proportionately spaced along its full length. Hardened steel fasteners to be furnished. Hinge joint to be monolithic in appearance. Hinges with visible knuckle separations are not acceptable.

ROTON is a registered trademark of the **Hager Hinge Company**.

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