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Roton Continuous Hinges

HOW TO ORDER:

Example: 780-112HDFFUL 119" CLR 1 PK
Stock Number: 184038
Item Number: YS 1121190CLR000001 Rev. S

780	112HD	119"	CLR	1 PK
ROTON ALUMINUM CONTINUOUS GEARED HINGE	ITEM#	LENGTH	FINISH	STANDARD SINGLE PACK

INTRODUCTION

Hager Roton hinges are unique, aluminum geared hinges developed to outperform most other entrance components because the weight of the door is distributed along the full length of the door frame.

Roton continuous hinges have been utilized in hospitals, schools, hotels, offices, airports, stadiums, storefronts, and commercial and industrial buildings in new construction and retrofit applications for over 30 years.

Hager Roton continuous geared hinges are designed for superior performance. Because of this, we offer our lifetime warranty with confidence.

ANSI Standards

- 780 Series Roton continuous geared hinges are approved per ANSI A156.26 Grade 1 for 150 lb. doors
- 780 Series Roton heavy duty hinges are approved per ANSI A156.26 Grade 1 for 300 lb. doors
- 780-111, 780-112, 780-124HD, 780-224, 780-226 standard duty and heavy duty Roton continuous geared hinges are Warnock-Hersey certified in accordance with ANSI A250.13 2003 Standard Severe Windstorm Resistant Components.



Cancellation Notification

Cancellation for made to order items must be completed within 48 hours of order placement.



Standard Lengths

Roton hinges are listed and priced as actual lengths 79" (6'8" opening), 83" (7'0" opening), 85" (7'2" opening), 95" (8'0" opening), and 119" (10'0" opening) for convenience in application to nominal sized doors. Actual length provides for threshold clearance, head clearance and door height allowances for carpeting. Other lengths may be ordered as non-standard items.

Special Lengths

Should a non-standard length be required, please price as the next standard length.
(For example, if 86" length is required, use 95" list price.)

Length Specifications

If special lengths to match the actual net door heights are required, please indicate this clearly on your order. A special length should be specified from the net door height, not the nominal height of the opening. To order specify: "Actual Length", or "Net Door Height". Use pricing for the next longer standard length from which the special length can be manufactured. For example, hinges 86-3/4" long will be invoiced at the 95" price.

Field Modifications

While Roton hinges can be cut in the field, any product modifications may void all warranties. Should in-the-field modifications be required, cut only from bottom of hinge. Do not cut through bearings or screw holes. When cutting electric hinges it is extremely important to clamp both hinge leaves securely to prevent hinge "chatter" which can damage the hinge's internal wiring. Consult the St. Louis sales office before proceeding.

Template Hinges

Hager has developed templated hole patterns for Roton hinge models in standard lengths. Drawings are available upon request by contacting Hager Customer Service or accessing the Hager website at www.hagerco.com.

Due to normal variances inherent in the manufacturing process, Roton custom length hinges are deemed by Hager to be nontemplated.

Standard Finishes

Roton hinges are available in clear anodized satin aluminum (similar to US28), dark bronze and black exterior anodized coating.

Special Products

A special product is any product not listed in the price book in regard to length, finish, standard hole preparation or leaf combinations not illustrated. Orders for special products are encouraged, but any changes or cancellations on special orders may result in charges related to work performed and/or material loss. Under no circumstance will non-stock or make-to-order products be accepted for return unless due to Hager error.




Roton Continuous Hinges

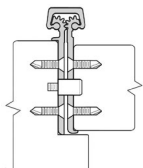
FIRE RATINGS - UNDERWRITERS LABORATORY FIRE RATING FILE #A14627



780 Series Roton continuous geared hinges with stainless steel studs are approved for use on 4'x10' metal or wood swing type doors. 780 Series Roton continuous geared hinges without stainless steel studs are approved for use on 4'x8' single swing metal doors and 4'x10' single swing wood doors used without stainless steel studs limited to 20 minute fire rating without hose stream.

- Hollow metal, tin-clad, sheet-metal and steel covered composite type rated up to and including 3 hours
- Wood composite doors rated up to and including 1-1/2 hours
- Wood core doors rated up to 20 minutes without hose stream, non-studded
- 780 Series Roton Continuous Geared Hinges meet requirements for positive pressure UL10C, UL10B and UBC7-2 Part 1

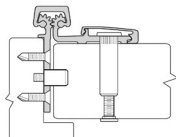
UL10C Fire Rated Roton	Fully Concealed	Full Surface	Half Surface	<div>NOTES:</div> <div>1. All Roton hinges will be marked with UL stamp if they are fire-rated.</div> <div>2. Several hinge models cannot be fire-rated. Check each profile.</div> <div>3. Models that require studs have an extra charge. Four studs are required for UL stud hinges. Add to the hinge list price before applying buying group discount - add \$56.80.</div> <div></div>
20 Minute Fire Rated Wood Core Door x Fire Rated Hollow Metal Frame	UL — FF STANDARD			
20 Minute Fire Rated Metal Door x Fire Rated Hollow Metal Frame	UL — FF STANDARD			
30 Minute Fire Rated Wood Composite Door x Fire Rated Hollow Metal Frame	UL — FF STANDARD			
30 Minute Fire Rated Metal Door x Fire Rated Hollow Metal Frame	UL — FF STANDARD			
45 Minute Fire Rated Wood Composite Door x Fire Rated Hollow Metal Frame	UL — FF STANDARD			
45 Minute Fire Rated Metal Door x Fire Rated Hollow Metal Frame	UL — FF STANDARD			
60 Minute Fire Rated Wood Door x Hollow Metal Frame	UL — FF STANDARD			
60 Minute Fire Rated Metal Door x Hollow Metal Frame	UL — FF STANDARD			
90 Minute Fire Rated Metal Door x Fire Rated Hollow Metal Frame	UL — FF STANDARD			
90 Minute Fire Rated Wood Composite Door x Fire Rated Hollow Metal Frame	UL — STUD REQUIRED * Must Specify			
3 Hour Fire Rated Metal Door x Fire Rated Hollow Metal Frame	UL — STUD REQUIRED * Must Specify			



FULLY CONCEALED WITH STUD

Fully Concealed

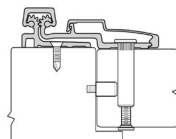
These models are concealed between the frame and the hinge edge of the door. Models available include: 780-041HD, 780-041LL, 780-111, 780-111HD, 780-111LL, 780-112, 780-112HD, 780-112LL, 780-124HD, 780-124LL, 780-224, 780-224HD, 780-224LL, 780-226, 780-226HD, and 780-226LL.



HALF SURFACE WITH STUD

Half Surface

These models have the frame leaf concealed between the frame and the edge of the door. The door leaf is mounted to the door with thru-bolts or screws. Models available include: 780-045HD, 780-046HD, 780-053, 780-053HD, and 780-054HD.



FULL SURFACE WITH STUD

Full Surface

These models have the frame leaf mounted to the face of the frame and the face of the door. The door leaf is mounted to the face of the door with thru-bolts. Models available include: 780-057HD, 780-157, 780-157HD, 780-210, and 780-210HD.



MODIFICATIONS & ADDITIONS

Special Cover Channels

Rounded back cover channels may be ordered. Availability for hinges with electrical modifications vary.

Please consult the St. Louis sales office for confirmation. Add to the hinge list price before applying buying group discount:

Round Back Cover Channels

Clear Anodized

79", 83", 85" **\$35.27**

95" **\$43.69**

119" **\$56.23**

Bronze Anodized

79", 83", 85" **\$70.29**

95" **\$78.67**

119" **\$89.95**

Black Anodized

79", 83", 85" **\$80.85**

95" **\$90.55**

119" **\$103.49**

Note: Special cover channels available in clear, dark bronze and black finish.

Roton Cover Channel Compatibility		
Hinge Model	Flat FBCC	Round RBCC
750-134	•	•
750-138	•	•
780-041	•	•
780-045	•	•
780-046	•	•
780-053	•	•
780-054	•	•
780-057	•	•
780-110	•	•
780-111	•	•
780-112	•	•
780-113	•	•
780-124	•	•
780-155	•	•
780-157	•	
780-210	•	•
780-211	•	•
780-224	•	•
780-226	•	•
780-259	•	•

* Round back (RBCC) is not compatible with molded Hospital Tip option.



Roton Continuous Hinges

MODIFICATIONS & ADDITIONS
PRICE

ADDITION TO LIST

Bone White Painted Cover Channels

For hinges 79", 83" and 85" in length	\$84.41
For hinges 95" in length	\$115.24
For hinges 119" in length	\$171.34

Roton cover channels are offered in bone white as a standard stock color option. This is only available on the standard Roton cover channel and should be ordered as bone white paint # UC43350.

Polished Cover Channels

	CLEAR
For hinges 79" in length	\$84.41
For hinges 83" in length	\$84.41
For hinges 85" in length	\$84.41
For hinges 95" in length	\$115.24
For hinges 119" in length	\$169.88

Any hinge may be ordered with a polished clear cover channel (similar to US26) to complement clear anodized hinge leaves or a polished gold cover channel (similar to US3) to complement satin gold hinge leaves.

Special Finished Hinges

Price on Application

Hager Companies can supply unfinished material to selected finishers for special projects that require unusual colors, but will require that final assembly be complete by Hager Companies. Because of special non-removable metal coatings applied to all hinges during assembly, users are cautioned against attempting to refinish any Roton product. Lead time of up to 10-12 weeks may be required.

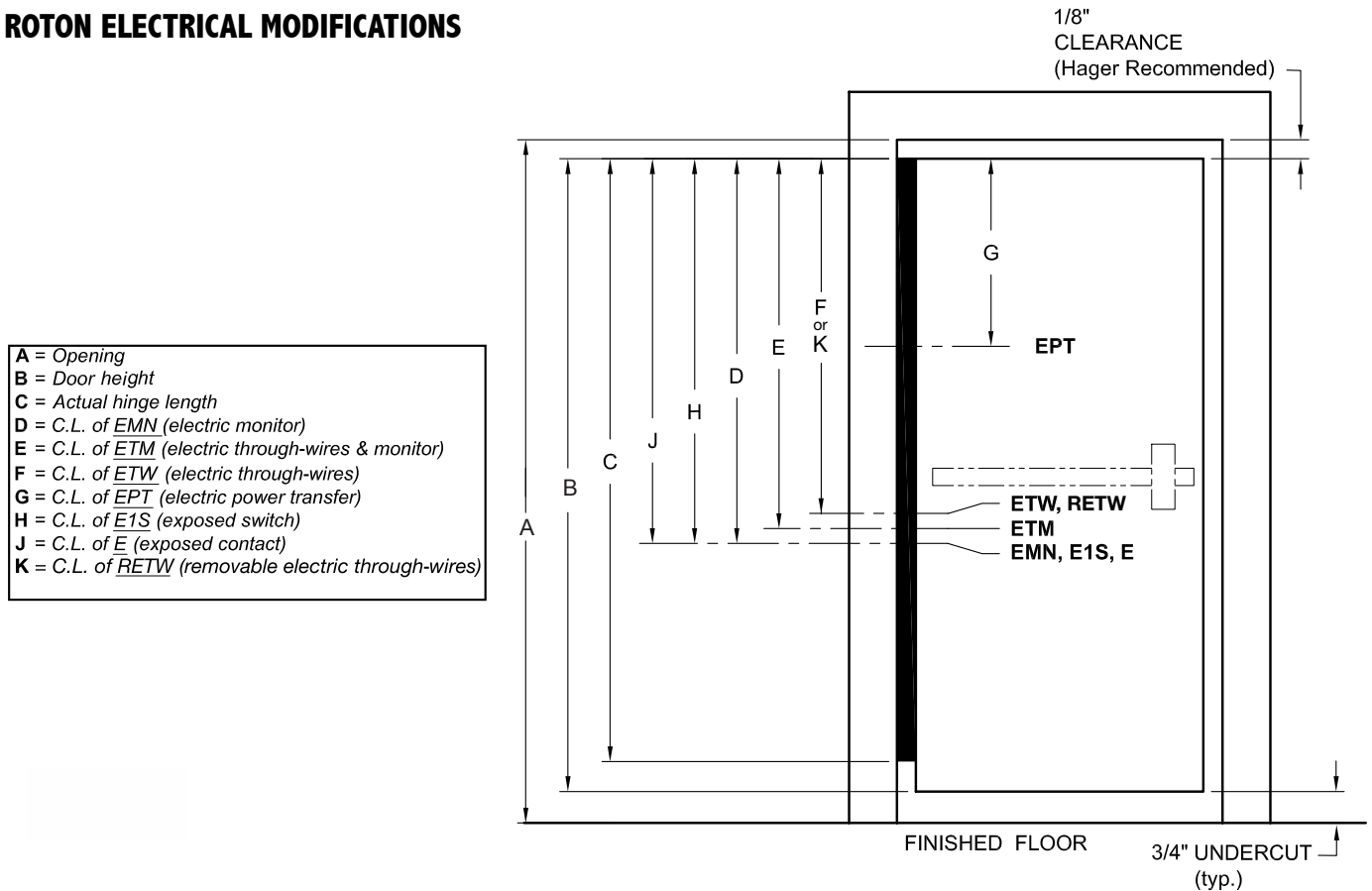
Cannot paint 500 or 1200 series hinges.

Special Holes

Price on Application

Any hinge may be ordered with special hole locations for unusual frame or door locations. Please provide specification for each leaf.

ROTON ELECTRICAL MODIFICATIONS



For ease of ordering, Hager Companies has established standard locations for power transfer cutouts. All standard location dimensions are referenced from the top edge of the door to the centerline of the power transfer cutout. Please specify handing.

NOTE: These locations are for concealed hinges only.

	Opening	Door Height	Actual Hinge Length	EMN	ETM	ETW	EPT	E1S	E	RETW
79 SD	80"	79-1/8"	79"	40-3/4"	42-3/4"	40-3/4"	34-3/8"	42-1/2"	42-1/2"	—
79 HD	80"	79-1/8"	79"	40-3/4"	43-3/8"	40-3/4"	34-3/8"	42-1/2"	42-1/2"	43-3/8"
83 SD	84"	83-1/8"	83"	45-5/16"	44-3/4"	45-5/16"	36-3/8"	46-1/2"	46-1/2"	—
83 HD	84"	83-1/8"	83"	45-5/16"	45-3/8"	45-5/16"	36-3/8"	46-1/2"	46-1/2"	45-3/8"
85 SD	86"	85-1/8"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
85 HD	86"	85-1/8"	85"	46-5/16"	46-3/8"	46-5/16"	37-3/8"	48-1/2"	48-1/2"	46-3/8"
95 SD	96"	95-1/8"	95"	56-3/8"	55-13/16"	56-3/8"	47-1/2"	59-3/4"	59-3/4"	—
95 HD	96"	95-1/8"	95"	56-3/8"	56-1/2"	56-3/8"	47-1/2"	59-3/4"	59-3/4"	56-1/2"
119 SD	120"	119-1/8"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
119 HD	120"	119-1/8"	119"	81-1/4"	81-5/16"	81-1/4"	72-5/16"	83-3/4"	83-3/4"	81-5/16"

SD = Standard Duty

HD = Heavy Duty



ROTON ELECTRICAL MODIFICATIONS (CONTINUED)

	Von Duprin EPT 2 or EPT 10 Power Transfer Preparation	Exposed Electric Contacts	Exposed Electric Switches	Concealed Electric Through-Wire	Concealed Electric Monitoring	Concealed Electric Through-Wire and Monitoring	Removable Electric Through-Wire
Part Number	EPT	E	E1S	ETW	EMN	ETM	RETW
780-045HD	•						
780-046HD	•						
780-053	•						
780-053HD	•						
780-054HD	•						
780-110HD			•				
780-057				•			•
780-111	•	•	•	•	•	•	
780-111HD	•	•	•	•	•	•	•
780-111LL	•	•	•	•	•	•	
780-112	•	•	•	•	•	•	
780-112HD	•	•	•	•	•	•	•
780-112LL	•	•	•	•	•	•	
780-124HD	•	•	•	•	•	•	•
780-124LL	•	•	•	•	•	•	
780-157				•			•
780-224	•	•	•	•	•	•	
780-224HD	•	•	•	•	•	•	•
780-224LL	•	•	•	•	•	•	
780-226HD	•	•	•	•	•	•	•
780-226LL	•	•	•	•	•	•	
1200-600	•			•			
1200-650	•			•			



MODIFICATIONS & ADDITIONS PRICE

ADDITION TO LIST

Quick Connect

\$63.23

Available for ETM, ETW, and RETW options. Top and bottom knockouts for standard conduit fittings.

Concealed Electric Monitoring (EMN)

\$354.29

- Miniature switch is incorporated into the frame leaf.
- Specify handing and the dimension from the top edge of the door to the centerline of the electric monitoring location.
- Special Electric Modifications and EPT locations may require additional charges if screw holes have to be moved.
- Templates regarding location of monitoring switch available upon request.

Concealed Electric Through-Wire and Monitoring (ETM)

- Electric Preparation

ETM-4

\$707.13

ETM-8

\$820.78

ETM-10

\$874.17

- All ETM have 28-Gauge continuous conductors.
- This combines the continuous electric conductors and the miniature switch to provide both power transfer and monitoring.
- Miniature switch is incorporated into the frame leaf.
- Specify handing and the dimension from the top edge of the door to the centerline of each electric modification location.
- Templates regarding location of monitoring switch available upon request.

Concealed Electric Through-Wire (ETW)

- Electric Preparation

ETW-4

\$354.29

ETW-8

\$461.21

ETW-10

\$525.36

ETW-12

\$587.93

- All ETW have 28-Gauge continuous conductors.
- 12" per side required as a suffix.
- Cut out for prep - 1/2" drilled hole.
- Transfers power discreetly from building to door hardware.
- Specify handing and the dimension from the top edge of the door to the centerline of the electric through-wire location.
- Special electric modifications and EPT locations may require additional charges if screw holes have to be moved. Contact Hager Customer Service for charges.
- Templates regarding location of through-wires available upon request.

Available on the following Roton Concealed profiles:

- 780-057HD
- 780-112HD
- 780-157HD
- 780-226HD
- 1200-650HD
- 780-111HD
- 780-124HD
- 780-224HD
- 1200-600HD

Power Transfer or Electric Power Transfer Preparation (EPT)

Concealed Leaf

\$137.81

Half Surface

\$83.03

- Hinge leaf cutout to accommodate power transfer device.
- Specify handing and the dimension from the top edge of the door to the **centerline** of the power transfer location.
- Special Electric Modifications and EPT locations may require additional charges if screw holes have to be moved.



Roton Continuous Hinges

MODIFICATIONS & ADDITIONS PRICE

ADDITION TO LIST

Lead Wire for Concealed Electric Hinges

Electric Preparation

4-wire hinge

8-wire hinge

10-wire hinge

- Standard wire leads are 12" per side
- Additional wire leads are available

Per Foot

\$12.21

\$22.18

\$25.15

Exposed Electric Switches (E1S)

\$123.82

- Miniature push button switch incorporated in hinge frame leaf to monitor position of the door.
- Three 12" wire leads.
- Each monitoring hinge only needs one E1S Switch.
- Specify handing and the dimension from the top edge of the door to the centerline of the electric switch location.
- Templates regarding location of contact switch available upon request.

Exposed Electric Contacts (E)

\$123.82

- Transfers power to door in closed position.
- Must have at least two (2) contacts to transfer power.
- Specify handing and the dimension from the top edge of the door to the centerline of the electric contact location.
- Templates regarding location of contacts available upon request.

Removable Electric Through-Wire (RETW) Twelve Wire

\$859.91

Removable 12 Wire Module Only

\$350.66

Component

Finish

7-102-1870

Clear

7-112-1872

Dark Bronze

7-112-1876

Gold

7-112-1881

Black

Removable Electric Through-Wire (RETW) Ten Wire

\$728.77

Removable 10 Wire Module Only

\$283.67

Component

Finish

7-102-1860

Clear

7-112-1870

Dark Bronze

7-112-1875

Gold

7-112-1880

Black



Available on heavy duty profiles:

- 780-057HD • 780-112HD • 780-157HD • 780-226HD
- 780-111HD • 780-124HD • 780-224HD
- Transfers power discreetly from building to door hardware.
- Removable ETW module can be easily removed for adjustment for service.
- Templates regarding location of monitoring switch available upon request.
- Specify handing and the dimension from the top edge of the door to the centerline of the electric through-wire location.



MODIFICATIONS & ADDITIONS

Mortar Box - 430

Price on Application

- Serves as a mortar shield.
- Overall dimensions: 9" (229 mm) length with tabs, 7" (178 mm) inside, 1-3/4" x 1-3/4" (45 mm x 45 mm) inside dimension.
- Galvanized steel 0.040" (1 mm)

Replacement Molding 780-052M

Hinge Lengths

79", 83", 85"
95"
119"

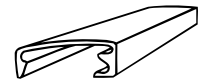
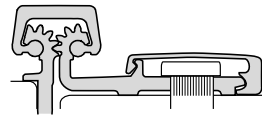
Clear Anodized

\$50.95
\$58.87
\$70.29

Dark Bronze Anodized

\$58.87
\$70.29
\$81.58

Replacement door leaf molding for: 780-053, 780-053HD, 780-054HD, 780-155HD, 780-057HD, 780-157, 780-157HD, 780-257HD, and 780-259HD.



Replacement Molding 780-210M

Hinge Lengths

79", 83", 85"
95"
119"

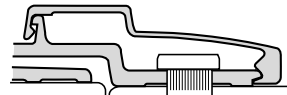
Clear Anodized

\$53.59
\$66.26
\$77.62

Dark Bronze Anodized

\$66.26
\$77.62
\$87.71

Replacement door leaf molding for: 780-210, 780-210HD, 780-211, 780-211HD, 780-213HD, 780-045HD, and 780-046HD.



Replacement Molding 780-247M

Hinge Lengths

79", 83", 85"
95"
119"

Clear Anodized

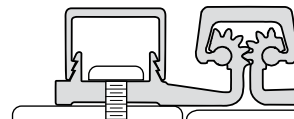
\$45.54
\$53.59
\$66.26

Dark Bronze Anodized

\$53.59
\$66.26
\$77.62

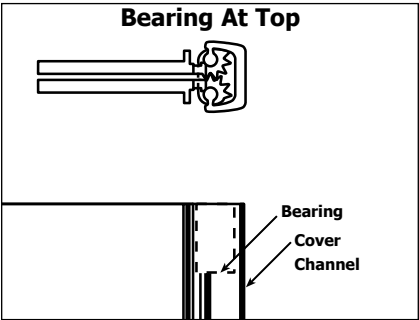
Replacement frame leaf molding
780-157, 780-157HD, 780-257HD

Note: Replacement moldings for 780-052M and 780-210M are shipped in stock lengths for trimming in the field and furnished with Allen head set screw and wrench.



Roton Continuous Hinges

MODIFICATIONS & ADDITIONS PRICE	ADDITION TO LIST
Short Hinges Hinges shorter than 79" will be invoiced at the 79" price. Where two or more short hinges can be obtained from a standard length, pricing is based on the number of standard lengths utilized plus an assembly charge for each hinge.	\$29.44
Extra Long Hinges Hinges over 119" are manufactured as two separate lengths with a staggered joint for on-site connection. Hinge segments are taken from standard sizes for best economics in relation to the quantity required. Hanging specifications are required to position the cuts inconspicuously and to finish symmetrical pairs in double door applications.	\$128.70
Custom Hole Pattern Hinge may be ordered with special hole locations for unusual frame or door conditions. Please provide specifications for each leaf.	Price on Application
Bearing At Top This application allows for the bearing to be set at the very top of the cover channel. The cover channel is flush with the top of the geared hinge, preventing any obstructions or debris from being inserted in the top of the channel.	\$54.78
780 Series Concealed Molded Hospital Tip 780 Series Concealed and several Full Surface models can be prepared with a smooth tapered top bearing. This option is ideal for use in hospitals and correctional facilities to help provide a clean and safe environment. For Roton® Ligature-Resistant Opening Solutions see our TIPIT® section below. Not compatible with the round back cover channel option. For complete list of compatible models for this option, please reference chart on page 13.	\$161.70



Hospital Tip and TIPIT® Compatibility		
Part #	Molded Hospital Tip	TIPIT®
750-134		•
750-138		•
780-045		•
780-046		•
780-053		•
780-054		•
780-057	•	
780-110	•	•
780-111	•	•
780-112	•	•
780-113	•	•
780-124	•	•
780-155		•
780-210	•	•
780-211		•
780-224	•	•
780-226	•	•



Roton Continuous Hinges

MODIFICATIONS & ADDITIONS

TIPIT®

Designed to work with in new and retrofit applications, the TIPIT® was designed with safety in mind. When openings are fitted with the patented TIPIT® in conjunction with our Roton® Continuous Geared Hinge, this combination provides a safe environment while meeting institutional requirements for preventing objects from being hung from the top of the hinge.

Concealed

\$76.56



Full Surface (Gray or Black)

\$194.04



Tamper Resistant Hinge

\$189.82

This application is intended for use in hospital psychiatric areas and places of high security. The hinge is **prepared with a hospital tip** and every other bearing is supplied with a set screw to lock against the inside of the cover channel for additional security. 780 Series Concealed and Full Surface models (780-057, 780-157, and 780-210) are available in this configuration. Torx screws available at additional charge (see page 15).

Dutch Door Prep

\$112.40

Furnished as continuous frame leaf, whole door leaf is cut to fit dutch door specified length.

Bearing Replacement Kit

Standard Duty for 780 Series

Heavy Duty for 780 Series

Extra Heavy Duty for 1200 Series

Clear and Dark Bronze

\$57.62

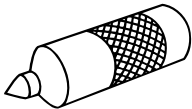
\$109.69

\$218.00

Center Punches

Self-Centering center punches are available for #12 countersunk screws supplied. To make sure screw heads seat properly, accurate center punching is required.

\$12.87



MODIFICATIONS & ADDITIONS PRICE

ADDITION TO LIST

Shim Stock

1/16" x 1-1/2" Wide x 7' Long

1/8" x 1-1/2" Wide x 7' Long

\$44.35 each

\$61.84 each

Larger sizes available

Price on application

For clearance between the door and frame which may be excessive, a continuous shim is helpful (applied behind the frame leaf only). Anodized aluminum extrusions are supplied with no holes.

Shipping Carton

\$30.95 each

Extra shipping cartons are available for reshipping hinges in quantities of 2 or less.

Fasteners

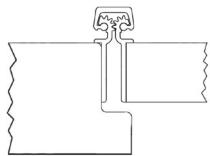
All hinges are shipped with appropriate fasteners for metal doors and frames except where noted. **If wood screws are required, please specify on order, and wood screws will be substituted at no extra charge.** Bulk screws are packed separately.

Description	Part Numbers		
	Clear	Dark Bronze	
#12 x 1-1/2" Flat Head Wood Screw	7-080-0050	7-080-0051	\$342.80/box of 500
#12-24 x 11/16" Self-Drilling Flat Head Screw	7-080-0070	7-080-0072	\$306.50/box of 500
#12-24 x 1/2" Spanner Head Machine Screw			\$2.77 each
#12-24 x 11/16" Drill Quick Torx Screw			\$2.77 each
#12-24 x 13/32" Self-Threading Screw (Clear or Bronze)			\$1.12 each
#12-24 x 11/16" Self-Drilling Flat Head Screw (Clear or Bronze)			\$1.58 each
#12-24 x 11/16" Self-Drilling Pan Head Screw (Clear)			\$1.58 each
#12 x 1-1/2" Flat Head Wood Screw (Clear or Bronze)			\$1.58 each
Sexbolts			\$4.09 each

Note: Additional fasteners may be ordered as follows (add to the hinge list price before applying buying group discount).



Roton Continuous Geared Hinges



500-048

Concealed Leaf
With Sheet Metal Screws
1-1/6" Nominal Leaf Thickness

24" (610 mm)

Clear

97.48

1

Dark Bronze

129.89

36" (914 mm)

Clear

110.42

1

Dark Bronze

146.19

48" (1219 mm)

Clear

128.89

1

Dark Bronze

162.36

72" (1829 mm)

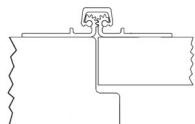
Clear

162.36

1

Dark Bronze

194.83



500-220

Full Surface
With Sheet Metal Screws
1-1/6" Nominal Leaf Thickness

24" (610 mm)

Clear

97.48

1

Dark Bronze

128.89

36" (914 mm)

Clear

113.72

1

Dark Bronze

146.19

48" (1219 mm)

Clear

129.89

1

Dark Bronze

162.36

72" (1829 mm)

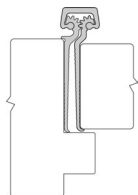
Clear

162.36

1

Dark Bronze

194.83



750-134

Concealed Leaf
With Half Drill Quick
and Half Wood Screws
1-3/4" Interior Wood Door

79" (2007 mm)

Clear

210.08

8

83" (2108 mm)

Clear

210.08

8

85" (2159 mm)

Clear

210.08

8

95" (2413 mm)

Clear

267.16

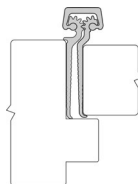
8

119" (3023 mm)

Clear

413.49

6



750-138

Concealed Leaf
With Half Drill Quick
and Half Wood Screws
1-3/8" Interior Wood Door

79" (2007 mm)

Clear

213.77

8

83" (2108 mm)

Clear

213.77

8

85" (2159 mm)

Clear

213.77

8

95" (2413 mm)

Clear

261.49

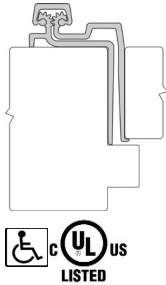
8

119" (3023 mm)

Clear

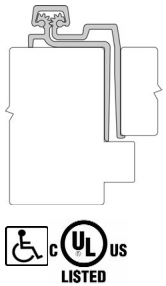
403.26

8



780-041HD
Concealed Leaf
Heavy Duty
1-3/4" Door Swing Clear Action

Size	Finish	List	Case Qty.
79" (2007 mm)	Clear	478.37	6
	Dark Bronze	634.92	
	Black	730.22	
83" (2108 mm)	Clear	478.37	6
	Dark Bronze	634.92	
	Black	730.22	
85" (2159 mm)	Clear	478.37	6
	Dark Bronze	634.92	
	Black	730.22	
95" (2413 mm)	Clear	592.94	6
	Dark Bronze	781.04	
	Black	898.13	
119" (3023 mm)	Clear	885.06	2
	Dark Bronze	1,164.11	
	Black	1,338.74	

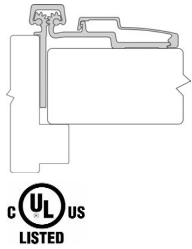


780-041LL
Concealed Leaf
With Half Drill Quick
and Half Wood Screws
1-3/4" Door Lead Lined
Heavy Duty Profile Only
Swing Clear Action

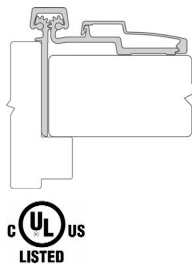
Size	Finish	List	Case Qty.
79" (2007 mm)	Clear	497.51	6
	Dark Bronze	650.76	
	Black	748.44	
83" (2108 mm)	Clear	497.51	6
	Dark Bronze	650.76	
	Black	478.44	
85" (2159 mm)	Clear	497.51	6
	Dark Bronze	650.76	
	Black	478.44	
95" (2413 mm)	Clear	608.92	6
	Dark Bronze	796.88	
	Black	916.48	
119" (3023 mm)	Clear	899.58	2
	Dark Bronze	1,180.08	
	Black	1,357.09	

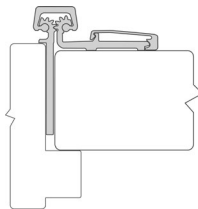
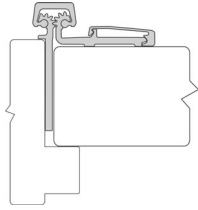


Roton Continuous Geared Hinges



Description	Size	Finish	List	Case Qty.
780-045HD Half Surface Heavy Duty	79" (2007 mm)	Clear	567.20	4
		Dark Bronze	758.21	
		Black	871.99	
	83" (2108 mm)	Clear	567.20	4
		Dark Bronze	758.21	
		Black	871.99	
	85" (2159 mm)	Clear	567.20	4
		Dark Bronze	758.21	
		Black	871.99	
	95" (2413 mm)	Clear	697.22	4
		Dark Bronze	932.58	
		Black	1,072.34	
	119" (3023 mm)	Clear	1,038.71	2
		Dark Bronze	1,387.32	
		Black	1,595.48	
780-046HD Half Surface Heavy Duty	79" (2007 mm)	Clear	610.50	4
		Dark Bronze	800.84	
		Black	920.96	
	83" (2108 mm)	Clear	610.50	4
		Dark Bronze	800.84	
		Black	920.96	
	85" (2159 mm)	Clear	610.50	4
		Dark Bronze	800.84	
		Black	920.96	
	95" (2413 mm)	Clear	748.57	4
		Dark Bronze	995.41	
		Black	1,144.70	
	119" (3023 mm)	Clear	1,118.30	2
		Dark Bronze	1,481.96	
		Black	1,704.25	

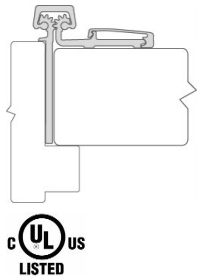




Description	Size	Finish	List	Case Qty.
780-053 Half Surface	79" (2007 mm)	Clear	296.74	5
		Dark Bronze	408.01	
		Black	469.13	
	83" (2108 mm)	Clear	296.74	5
		Dark Bronze	408.01	
		Black	469.13	
	95" (2413 mm)	Clear	367.62	5
		Dark Bronze	497.24	
		Black	571.82	
780-053HD Half Surface Heavy Duty	79" (2007 mm)	Clear	372.24	5
		Dark Bronze	466.88	
		Black	536.98	
	83" (2108 mm)	Clear	372.24	5
		Dark Bronze	466.88	
		Black	536.98	
	85" (2159 mm)	Clear	372.24	5
		Dark Bronze	466.88	
		Black	536.98	
	95" (2413 mm)	Clear	461.87	5
		Dark Bronze	559.55	
		Black	643.50	
	119" (3023 mm)	Clear	706.99	3
		Dark Bronze	943.80	
		Black	1,085.44	



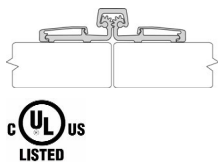
Betas Continuous Geared Hinges



780-054HD

Half Surface
Heavy Duty

Description	Size	Finish	List	Case Qty.
780-054HD Half Surface Heavy Duty	79" (2007 mm)	Clear	406.56	5
		Dark Bronze	500.02	
		Black	574.99	
	83" (2108 mm)	Clear	406.56	5
		Dark Bronze	500.02	
		Black	574.99	
	85" (2159 mm)	Clear	406.56	5
		Dark Bronze	500.02	
		Black	574.99	
	95" (2413 mm)	Clear	502.66	5
		Dark Bronze	594.66	
		Black	683.76	
	119" (3023 mm)	Clear	733.26	3
		Dark Bronze	998.05	
		Black	1,147.74	

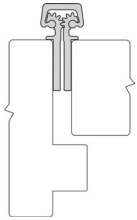


780-057HD

Full Surface
Heavy Duty
Bi-Fold Applications

780-057HD Full Surface Heavy Duty Bi-Fold Applications	79" (2007 mm)	Clear	434.28	5
		Dark Bronze	613.27	
		Black	705.28	
	83" (2108 mm)	Clear	434.28	5
		Dark Bronze	613.27	
		Black	705.28	
	85" (2159 mm)	Clear	434.28	5
		Dark Bronze	613.27	
		Black	705.28	
	95" (2413 mm)	Clear	552.16	5
		Dark Bronze	759.26	
		Black	873.18	
	119" (3023 mm)	Clear	823.02	4
		Dark Bronze	1,130.84	
		Black	1,300.46	

Roton Continuous Geared Hinges



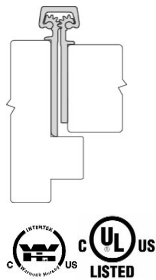
Description	Size	Finish	Year List	Stock No.	Case Qty.
780-110HD Concealed Leaf Heavy Duty 1" to 1-3/8" door	79" (2007 mm)	Clear		276.14	8
		Dark Bronze		356.80	
		Black		410.26	
	83" (2108 mm)	Clear		276.14	8
		Dark Bronze		356.80	
		Black		410.26	
	85" (2159 mm)	Clear		276.14	8
		Dark Bronze		356.80	
		Black		410.26	
	95" (2413 mm)	Clear		331.85	8
		Dark Bronze		430.06	
		Black		494.60	
	119" (3023 mm)	Clear		525.62	7
		Dark Bronze		690.23	
		Black		793.85	

1. Items with the price in **bold and red** are Quick Ship items and ship in 24 hours.
Please use stock number when ordering. 2. U/M is each unless otherwise noted.

March 2025
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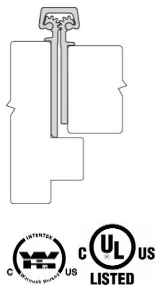


Roton Continuous Geared Hinges



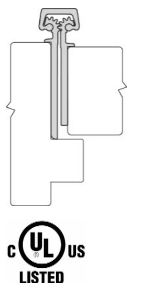
780-111
Concealed Leaf

79" (2007 mm)	Clear	215.69	8
	Dark Bronze	278.65	
	Black	320.43	
83" (2108 mm)	Clear	215.69	8
	Dark Bronze	278.65	
	Black	320.43	
95" (2413 mm)	Clear	262.81	8
	Dark Bronze	341.75	
	Black	392.96	



780-111HD
Concealed Leaf
Heavy Duty

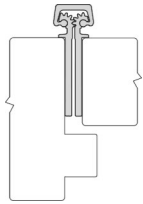
79" (2007 mm)	Clear	268.36	8
	Dark Bronze	350.46	
	Black	403.13	
83" (2108 mm)	Clear	268.36	8
	Dark Bronze	350.46	
	Black	403.13	
85" (2159 mm)	Clear	268.36	8
	Dark Bronze	350.46	
	Black	403.13	
95" (2413 mm)	Clear	325.78	8
	Dark Bronze	421.34	
	Black	484.57	
119" (3023 mm)	Clear	520.61	7
	Dark Bronze	677.95	
	Black	779.59	



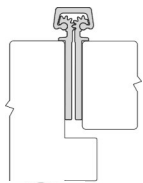
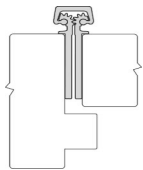
780-111LL
Concealed Leaf
With Half Drill Quick
and Half Wood Screws
Lead Lined
Heavy Duty Profile Only

79" (2007 mm)	Clear	290.40	8
	Dark Bronze	369.07	
	Black	424.51	
83" (2108 mm)	Clear	290.40	8
	Dark Bronze	369.07	
	Black	424.51	
85" (2159 mm)	Clear	290.40	8
	Dark Bronze	369.07	
	Black	424.51	
95" (2413 mm)	Clear	345.18	8
	Dark Bronze	439.82	
	Black	505.82	
119" (3023 mm)	Clear	534.60	7
	Dark Bronze	697.22	
	Black	801.90	

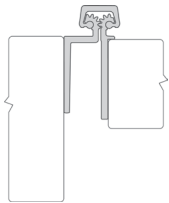




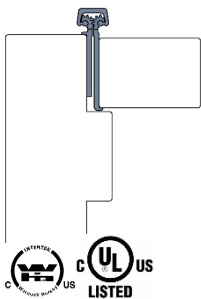
Description	Size	Finish	List	Case Qty.
780-112 Concealed Leaf <i>Single Pack w/ Drill Quick Screws</i>	79" (2007 mm)	Clear	181.63	8
		Dark Bronze	234.56	
		Black	269.81	
	83" (2108 mm)	Clear	181.63	8
		Dark Bronze	234.56	
		Black	269.81	
	95" (2413 mm)	Clear	222.42	7
		Dark Bronze	292.91	
		Black	336.86	
780-112 Concealed Leaf <i>Case Pack w/ Drill Quick Screws</i> Must Order Case Quantity	83" (2108 mm)	Clear	163.42	8
		Dark Bronze	211.20	
		Black	248.88	
780-112HD Concealed Leaf <i>Single Pack w/ Drill Quick Screws</i>	79" (2007 mm)	Clear	225.59	8
		Dark Bronze	291.46	
		Black	335.15	
	83" (2108 mm)	Clear	225.59	8
		Dark Bronze	291.46	
		Black	335.15	
	85" (2159 mm)	Clear	225.59	8
		Dark Bronze	291.46	
		Black	335.15	
	95" (2413 mm)	Clear	271.79	7
		Dark Bronze	358.38	
		Black	412.10	
	119" (3023 mm)	Clear	437.18	7
		Dark Bronze	576.05	
		Black	662.51	
780-112HD Concealed Leaf <i>Case Pack w/ Drill Quick Screws</i> Must Order Case Quantity	83" (2108 mm)	Clear	206.45	8
		Dark Bronze	262.42	
		Black	301.75	
780-112LL Concealed Leaf With Half Drill Quick and Half Wood Screws Lead Lined Heavy Duty Profile Only	79" (2007 mm)	Clear	248.82	8
		Dark Bronze	352.25	
		Black	374.09	
	83" (2108 mm)	Clear	248.82	8
		Dark Bronze	352.25	
		Black	374.09	
	85" (2159 mm)	Clear	248.82	8
		Dark Bronze	352.25	
		Black	374.09	
	95" (2413 mm)	Clear	302.68	8
		Dark Bronze	388.08	
		Black	446.95	
	119" (3023 mm)	Clear	482.86	7
		Dark Bronze	630.96	
		Black	725.60	

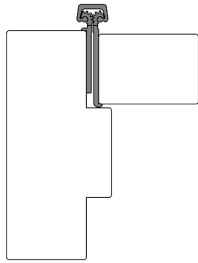


Roton Continuous Geared Hinges

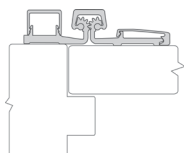
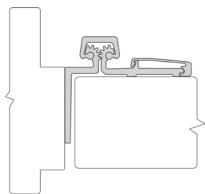


Description	Size	Finish	List	Case Qty.
780-113HD Concealed Leaf Heavy Duty "Safety Hinge" When Used Without Frame Stop	79" (2007 mm)	Clear	456.72	6
		Dark Bronze	614.06	
		Black	706.20	
	83" (2108 mm)	Clear	456.72	6
		Dark Bronze	614.06	
		Black	706.20	
	85" (2159 mm)	Clear	456.72	6
		Dark Bronze	614.06	
		Black	706.20	
	95" (2413 mm)	Clear	748.57	6
		Dark Bronze	840.58	
		Black	966.64	
	119" (3023 mm)	Clear	929.02	4
		Dark Bronze	1,098.11	
		Black	1,262.84	
780-124HD Concealed Leaf Heavy Duty profile only Single pack with drill quick screws	79" (2007 mm)	Clear	229.28	8
		Dark Bronze	298.58	
		Black	343.46	
	83" (2108 mm)	Clear	229.28	8
		Dark Bronze	298.58	
		Black	343.46	
	85" (2159 mm)	Clear	229.28	8
		Dark Bronze	298.58	
		Black	343.46	
	95" (2413 mm)	Clear	277.33	7
		Dark Bronze	333.30	
		Black	383.33	
	119" (3023 mm)	Clear	450.65	7
		Dark Bronze	590.57	
		Black	679.14	

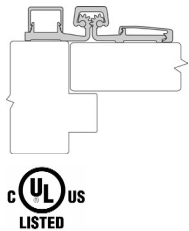




Description	Size	Finish	List	Case Qty.
780-124LL Concealed Leaf Heavy Duty profile only With half drill quick and Half Wood Screws Lead Lined	79" (2007 mm)	Clear	285.59	8
		Dark Bronze	333.30	
		Black	383.33	
	83" (2108 mm)	Clear	285.59	8
		Dark Bronze	333.30	
		Black	383.33	
	85" (2159 mm)	Clear	285.59	8
		Dark Bronze	333.30	
		Black	383.33	
	95" (2413 mm)	Clear	310.60	7
		Dark Bronze	391.91	
		Black	450.78	
	119" (3023 mm)	Clear	493.28	7
		Dark Bronze	639.94	
		Black	735.90	
780-155HD Half Surface Heavy Duty Center Hung and Egress Conversions	79" (2007 mm)	Clear	479.69	5
		Dark Bronze	645.88	
		Black	742.90	
	83" (2108 mm)	Clear	479.69	5
		Dark Bronze	645.88	
		Black	742.90	
	85" (2159 mm)	Clear	479.69	5
		Dark Bronze	645.88	
		Black	742.90	
	95" (2413 mm)	Clear	588.59	5
		Dark Bronze	796.36	
		Black	915.82	
	119" (3023 mm)	Clear	875.95	2
		Dark Bronze	1,183.91	
		Black	1,361.45	
780-157 Full Surface Frame Face Dimension Limitations	79" (2007 mm)	Clear	279.31	5
		Dark Bronze	377.26	
		Black	433.88	
	83" (2108 mm)	Clear	279.31	5
		Dark Bronze	377.26	
		Black	433.88	
	95" (2413 mm)	Clear	341.48	5
		Dark Bronze	460.81	
		Black	529.85	

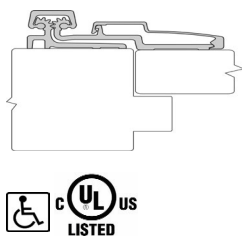


Roton Continuous Geared Hinges



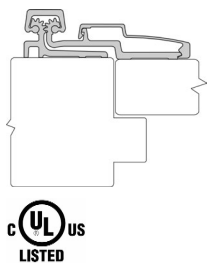
780-157HD
Full Surface
Heavy Duty
Frame Face Dimension
Limitations

Size	Finish	List	Case Qty.
79" (2007 mm)	Clear	346.10	5
	Dark Bronze	422.00	
	Black	485.35	
83" (2108 mm)	Clear	346.10	5
	Dark Bronze	422.00	
	Black	485.35	
85" (2159 mm)	Clear	346.10	5
	Dark Bronze	422.00	
	Black	485.35	
95" (2413 mm)	Clear	415.27	5
	Dark Bronze	507.01	
	Black	538.04	
119" (3023 mm)	Clear	688.25	2
	Dark Bronze	898.02	
	Black	1,030.39	



780-210
Full Surface

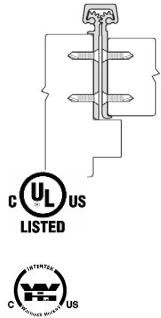
Size	Finish	List	Case Qty.
79" (2007 mm)	Clear	279.31	6
	Dark Bronze	377.26	
	Black	433.88	
83" (2108 mm)	Clear	279.31	6
	Dark Bronze	377.26	
	Black	433.88	
95" (2413 mm)	Clear	334.22	6
	Dark Bronze	455.27	
	Black	523.51	



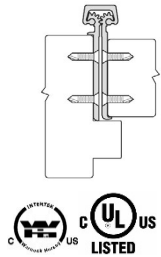
780-210HD
Full Surface
Heavy Duty

Size	Finish	List	Case Qty.
79" (2007 mm)	Clear	340.82	6
	Dark Bronze	414.35	
	Black	476.52	
83" (2108 mm)	Clear	340.82	6
	Dark Bronze	414.35	
	Black	476.52	
85" (2159 mm)	Clear	340.82	6
	Dark Bronze	414.35	
	Black	476.52	
95" (2413 mm)	Clear	402.34	6
	Dark Bronze	495.00	
	Black	569.18	
119" (3023 mm)	Clear	672.94	2
	Dark Bronze	754.25	
	Black	867.37	

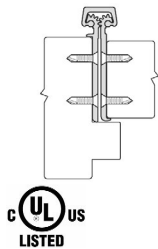




Description	Size	Finish	List	Case Qty.
780-224 Concealed Leaf 1-3/4" Doors Single Pack w/ Drill Quick Screws	79" (2007 mm)	Clear	183.88	7
		Dark Bronze	239.84	
		Black	275.88	
	83" (2108 mm)	Clear	183.88	7
		Dark Bronze	239.84	
		Black	275.88	
	95" (2413 mm)	Clear	233.11	7
		Dark Bronze	301.36	
		Black	346.50	
780-224 Concealed Leaf 1-3/4" Doors <i>Case Pack w/ Drill Quick Screws</i> Must Order Case Quantity	83" (2108 mm)	Clear	165.40	7
780-224HD Concealed Leaf 1-3/4" Doors Single Pack w/ Drill Quick Screws	79" (2007 mm)	Clear	229.42	7
		Dark Bronze	297.32	
		Black	343.07	
	83" (2108 mm)	Clear	229.42	7
		Dark Bronze	297.32	
		Black	343.07	
	85" (2159 mm)	Clear	229.42	7
		Dark Bronze	297.32	
		Black	343.07	
	95" (2413 mm)	Clear	277.86	7
		Dark Bronze	365.90	
		Black	420.82	
	119" (3023 mm)	Clear	455.27	5
		Dark Bronze	592.68	
		Black	681.65	
780-224HD Concealed Leaf 1-3/4" Doors <i>Case Pack w/ Drill Quick Screws</i> Must Order Case Quantity	83" (2108 mm)	Clear	206.45	7
		Dark Bronze	268.62	
		Black	308.88	

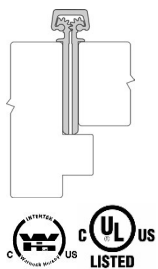


Roton Continuous Geared Hinges



780-224LL
Concealed Leaf
1-3/4" Doors Lead Lined
With Half Drill Quick
and Half Wood Screws
Heavy Duty Profile Only

Description	Size	Finish	List	Case Qty.
79" (2007 mm)		Clear	264.92	7
		Dark Bronze	338.05	
		Black	388.87	
83" (2108 mm)		Clear	264.92	7
		Dark Bronze	338.05	
		Black	388.87	
85" (2159 mm)		Clear	264.92	7
		Dark Bronze	338.05	
		Black	388.87	
95" (2413 mm)		Clear	320.36	7
		Dark Bronze	394.42	
		Black	453.55	
119" (3023 mm)		Clear	503.84	5
		Dark Bronze	649.44	
		Black	746.86	

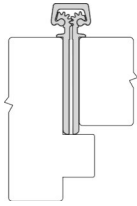


780-226HD
Concealed Leaf
Heavy Duty
For Doors 2" or Thicker

Description	Size	Finish	List	Case Qty.
79" (2007 mm)		Clear	274.43	7
		Dark Bronze	361.94	
		Black	416.33	
83" (2108 mm)		Clear	274.43	7
		Dark Bronze	361.94	
		Black	416.33	
85" (2159 mm)		Clear	274.43	7
		Dark Bronze	361.94	
		Black	416.33	
95" (2413 mm)		Clear	333.96	7
		Dark Bronze	429.40	
		Black	493.81	
119" (3023 mm)		Clear	542.39	5
		Dark Bronze	704.49	
		Black	810.08	



Roton Continuous Geared Hinges



Description	Size	Finish	List	Case Qty.
780-226LL Concealed Leaf For Lead Lined Doors 2" or Thicker With Half Drill Quick and Half Wood Screws Heavy Duty Profile Only	79" (2007 mm)	Clear	297.40	7
		Dark Bronze	378.84	
		Black	435.60	
	83" (2108 mm)	Clear	297.40	7
		Dark Bronze	378.84	
		Black	435.60	
	85" (2159 mm)	Clear	297.40	7
		Dark Bronze	378.84	
		Black	435.60	
	95" (2413 mm)	Clear	359.44	7
		Dark Bronze	431.90	
		Black	496.72	
1200-600XHD Concealed Leaf Extra Heavy Duty For doors from 1-3/4" to 2-3/8" thick.	83" (2108 mm)	Clear	1,382.04	1
		Dark Bronze	1,933.80	
	95" (2413 mm)	Clear	1,565.85	1
		Dark Bronze	2,118.60	
	119" (3023 mm)	Clear	1,750.32	1
		Dark Bronze	2,302.07	
1200-650XHD Concealed Leaf Extra Heavy Duty For doors 2-3/8" thick or thicker.	83" (2108 mm)	Clear	1,842.72	1
		Dark Bronze	2,394.48	
	95" (2413 mm)	Clear	2,026.20	1
		Dark Bronze	2,579.28	
	119" (3023 mm)	Clear	2,211.00	1
		Dark Bronze	2,762.76	

