

CONTINUOUS GEAR HINGE CLEARANCE CALCULATION CHART FOR MODELS: A110HD/LL, A111HD/LL, A140HD/LL, A240HD/LL, A260HD, A270HD/LL, A410HD/LL

CAUTION: Please follow the installation instructions carefully. Not doing so may result in improper installation voiding the manufacturer's warranty. All HINGE KING hinges have a permanent factory applied lubricant on the geared areas. Removal or alteration of this lubricant, anodizing or painting of this product in the field will void the warranty.

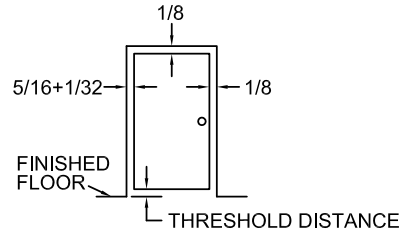
CLEARANCE REQUIREMENT CALCULATION

Single Door: Frame opening minus Total Clearance Required = Net Door Width

Double Door: Frame Opening minus Total Clearance Required Divided by 2 = Net Door Width Per Door

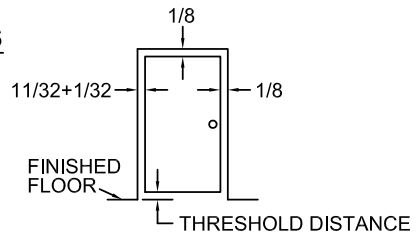
SINGLE DOORS (SQUARE EDGES)

A. HINGE THICKNESS	5/16" (0.312)
B. LOCKSIDE CLEARANCE	1/8" (0.125)
C. CLEARANCE FOR IRREGULARITIES	+ 1/32" (0.031)
<u>TOTAL CLEARANCE REQUIRED</u>	15/32" (0.468)



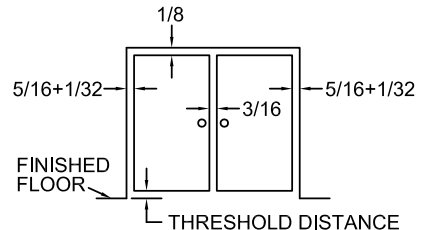
SINGLE DOORS (BEVELED EDGES)

A. HINGE THICKNESS	5/16" (0.313)
B. LOCKSIDE CLEARANCE	1/8" (0.125)
C. BEVELED EDGED CLEARANCE	1/32" (0.031)
D. CLEARANCE FOR IRREGULARITIES	+ 1/32" (0.031)
<u>TOTAL CLEARANCE REQUIRED</u>	1/2" (0.500)



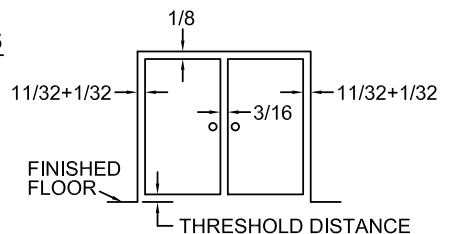
PAIRS OF DOORS (SQUARE EDGES)

A. FIRST HINGE THICKNESS	5/16" (0.313)
B. FIRST CLEARANCE FOR IRREGULARITIES	1/32" (0.031)
C. EDGE TO EDGE CLEARANCE	3/16" (0.187)
D. SECOND HINGE THICKNESS	5/16" (0.313)
E. SECOND CLEARANCE FOR IRREGULARITIES	+ 1/32" (0.031)
<u>TOTAL CLEARANCE REQUIRED</u>	7/8" (0.875)



PAIRS OF DOORS (BEVELED EDGES)

A. FIRST HINGE THICKNESS	5/16" (0.313)
B. FIRST CLEARANCE FOR IRREGULARITIES	1/32" (0.031)
C. FIRST BEVELED EDGE CLEARANCE	1/32" (0.031)
D. EDGE TO EDGE CLEARANCE	3/16" (0.187)
E. SECOND HINGE THICKNESS	5/16" (0.313)
F. SECOND CLEARANCE FOR IRREGULARITIES	1/32" (0.031)
G. SECOND BEVELED EDGE CLEARANCE	+ 1/32" (0.031)
<u>TOTAL CLEARANCE REQUIRED</u>	15/16" (0.937)



CONTINUOUS GEAR HINGE DOOR CLEARANCE CHART-INTERNATIONAL DOOR CLOSER-00.DWG

INTERNATIONAL DOOR CLOSER

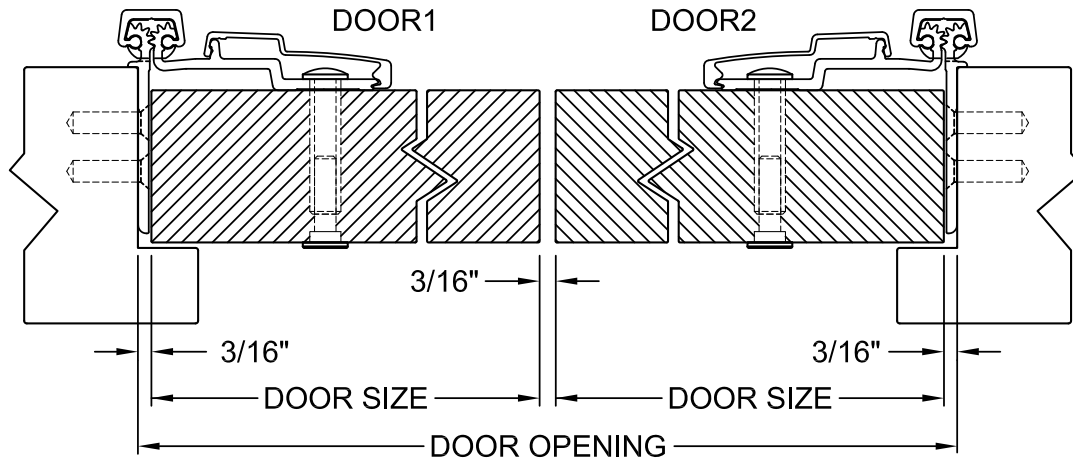
1140 KRAEMER PLACE, ANAHEIM, CA 92806
TEL: (714) 666-0390 (800) 544-4422
FAX: (714) 666-2215

CONTINUOUS GEAR HINGE DOOR CLEARANCE CHART

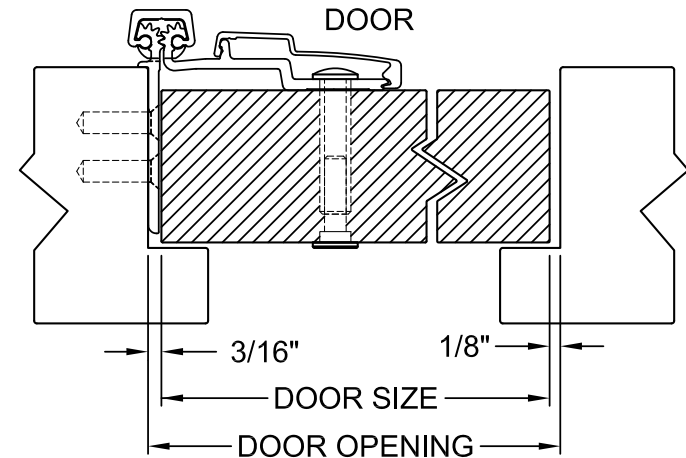
ISSUED 01-22-10

DOOR CLEARANCES FOR HALF SURFACE GEAR HINGES

A460 SHOWN FOR EXAMPLE
PAIR DOORS SQUARE EDGE



A460 SHOWN FOR EXAMPLE
SINGLE DOOR SQUARE EDGE



DOUBLE DOOR CLEARANCE

HINGE SIDE CLEARANCE (2X)	3/16"
LATCH SIDE CLEARANCE	3/16"
TOTAL WIDTH CLEARANCE	9/16"

TO DETERMINE DOOR WIDTH
SUBTRACT THE TOTAL WIDTH
CLEARANCE FROM THE WIDTH
OF THE FRAME OPENING;
DIVIDE THE RESULT BY 2

SINGLE DOOR CLEARANCE

HINGE SIDE CLEARANCE	3/16"
LATCH SIDE CLEARANCE	1/8"
TOTAL WIDTH CLEARANCE	5/16"

TO DETERMINE DOOR WIDTH
SUBTRACT THE TOTAL WIDTH
CLEARANCE FROM THE WIDTH
OF THE FRAME OPENING.

NOTE:

FOR DOUBLE DOOR ENTRANCES WITH A MULLION **BETWEEN** THE PAIR OF DOORS,
CALCULATE EACH DOOR WIDTH USING THE SINGLE DOOR CLEARANCES.

FOR DOUBLE DOOR ENTRANCES WITH A MULLION **BEHIND** THE PAIR OF DOORS,
CALCULATE EACH DOOR WIDTH USING THE DOUBLE DOOR CLEARANCES.

INTERNATIONAL DOOR CLOSER

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DOOR CLEARANCE HALF SURFACE-INTERNATIONAL DOOR CLOSER-00.DWG

A211,A213,A450,A460,
A530,A540,A550

ISSUED 01-22-10

DUTCH DOOR HINGE ORDER FORM

Customer:

P.O. No.

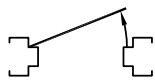
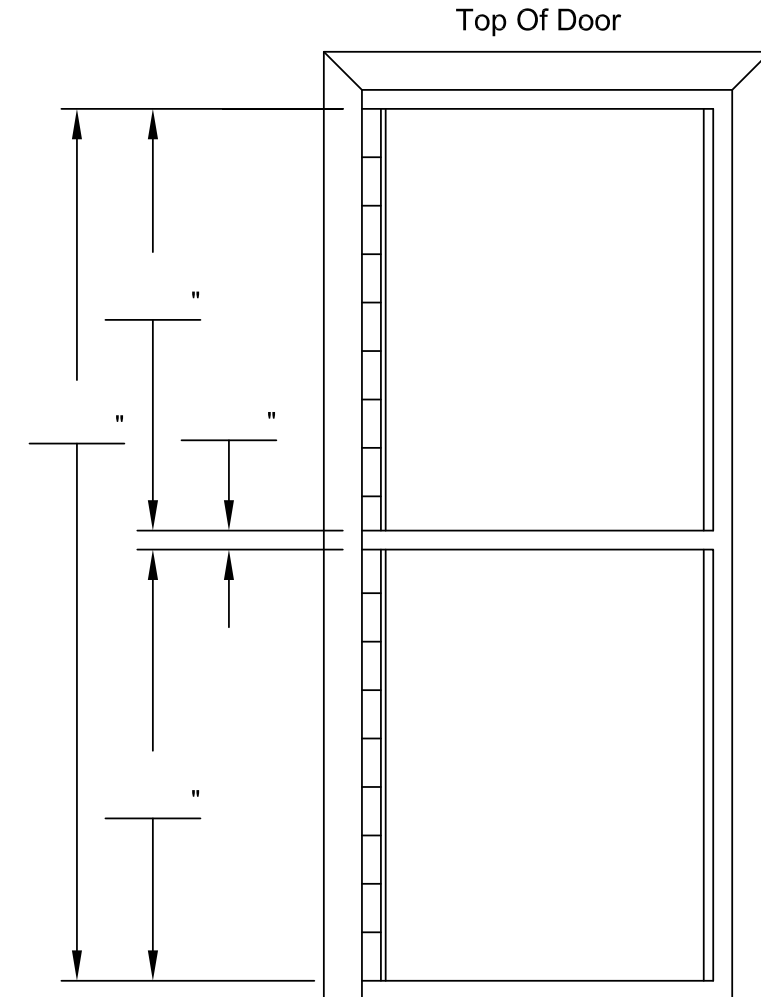
Model:

Qty.

I, the undersigned, approve the design and dimensions as shown on this print, and authorize the fabrication of these Hinges as indicated.

Date:

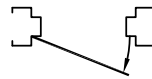
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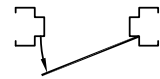
LEFT HAND



RIGHT HAND



LEFT HAND
REVERSE



RIGHT HAND
REVERSE

DDH-ORDER FORM-INTERNATIONAL DOOR CLOSER-00.DWG

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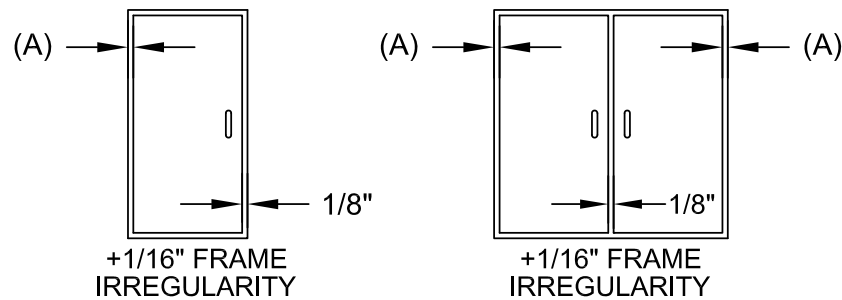
DUTCH DOOR HINGE
ORDER FORM

ISSUED 01-22-10

STAINLESS STEEL HINGE & EDGE GUARD CLEARANCE CHART

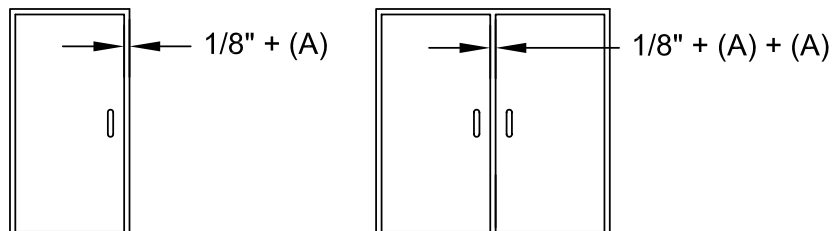
HINGE CLEARANCE CHART			
MODEL	CLEARANCE (A)	TOTAL UNDER-SIZING FOR SINGLE DOOR	TOTAL UNDER-SIZING FOR PAIR OF DOORS
A500	1/4	7/16	11/16
*A502	1/8	5/16	7/16
*A503	1/8	5/16	7/16
*A504	1/8	5/16	7/16
A505	3/8	9/16	15/16
*A506	1/8	5/16	7/16
*A511	1/8	5/16	7/16
A515	1/4	7/16	11/16
A5500	5/16	1/2	13/16

MODELS WITH * WILL WORK WITH INDUSTRY STANDARD CLEARANCES



EDGE GUARD CLEARANCE CHART			
MODEL	CLEARANCE (A)	TOTAL UNDER-SIZING FOR SINGLE DOOR	TOTAL UNDER-SIZING FOR PAIR OF DOORS
A528B or A528BM	1/16	3/16	1/4
A528S or A528SM	1/16	3/16	1/4
A538CB or A538CBM	1/16	3/16	1/4
A538CS or A538CSM	1/16	3/16	1/4
A548TB or A548TBM	1/16	----	1/4
A548TS or A548TSM	1/16	----	1/4

IN A STAND-ALONE APPLICATION, WHERE THE A548T IS USED ON A PAIR OF DOORS WHILE THE OPPOSITE DOOR CONTAINS NO EDGE GUARD, THE TOTAL UNDER-SIZING FOR THE PAIR OF DOORS WOULD BE 3/16"



SS HINGE CLEARANCE CHART-INTERNATIONAL DOOR CLOSER-00.DWG

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STAINLESS STEEL HINGE
 & EDGE GUARD
 CLEARANCE CHART

ISSUED 01-22-10

DUTCH DOOR HINGE ORDER FORM

Customer:

P.O. No.

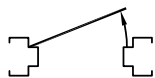
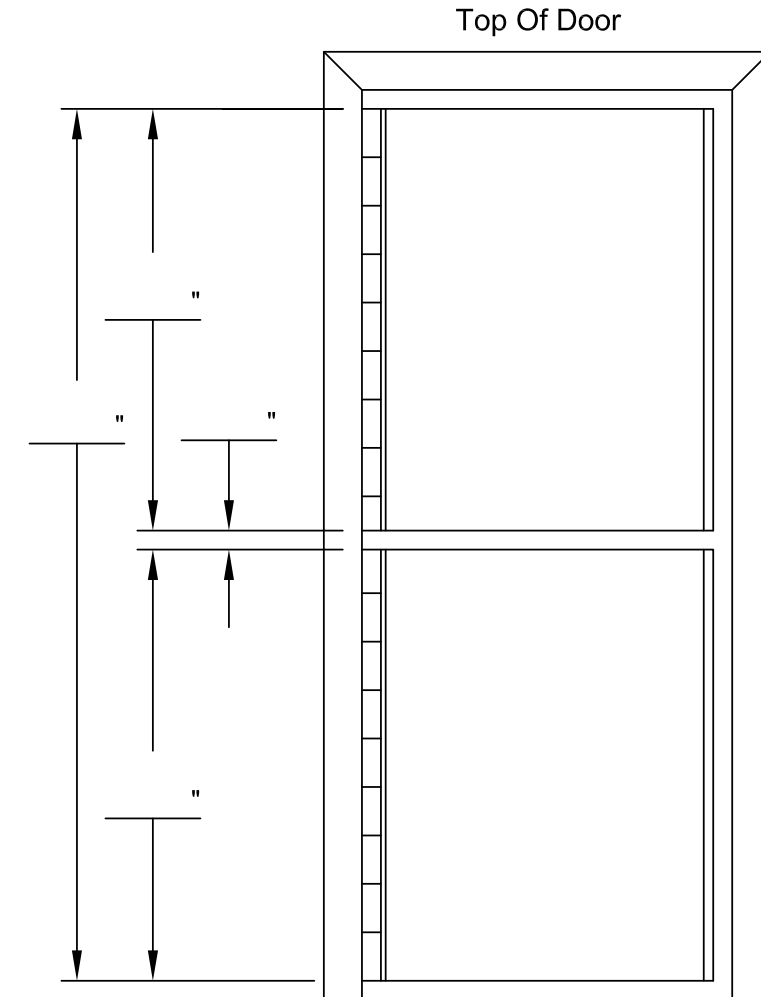
Model:

Qty.

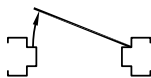
I, the undersigned, approve the design and dimensions as shown on this print, and authorize the fabrication of these Hinges as indicated.

Date:

Signed:



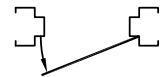
LEFT HAND



RIGHT HAND



LEFT HAND
REVERSE



RIGHT HAND
REVERSE

DDH-ORDER FORM-INTERNATIONAL DOOR CLOSER-00.DWG

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DUTCH DOOR HINGE
ORDER FORM

ISSUED 01-22-10

EDGE GUARD ORDER FORM

Customer:

P.O. No.

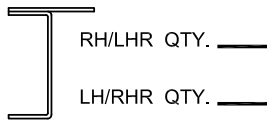
I, the undersigned, approve the design and dimensions as shown on this print, and authorize the fabrication of these Edge Guards as indicated.

Date:

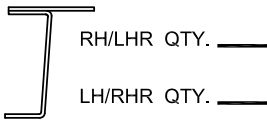
Signed:

MODEL # WITH AN "M" DESIGNATOR IS A MORTISED TYPE OF EDGE GUARD

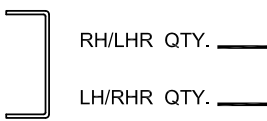
- ☐ A548TS
☐ A548TSM



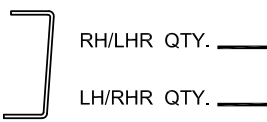
- ☐ A548TB
☐ A548TBM



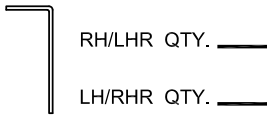
- ☐ A538CS
☐ A538CSM



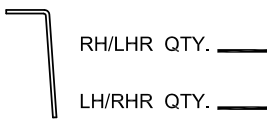
- ☐ A538CB
☐ A538CBM



- ☐ A528S
☐ A528SM



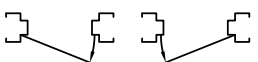
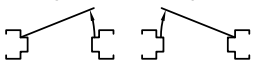
- ☐ A528B
☐ A528BM



☐ ACTIVE DOOR

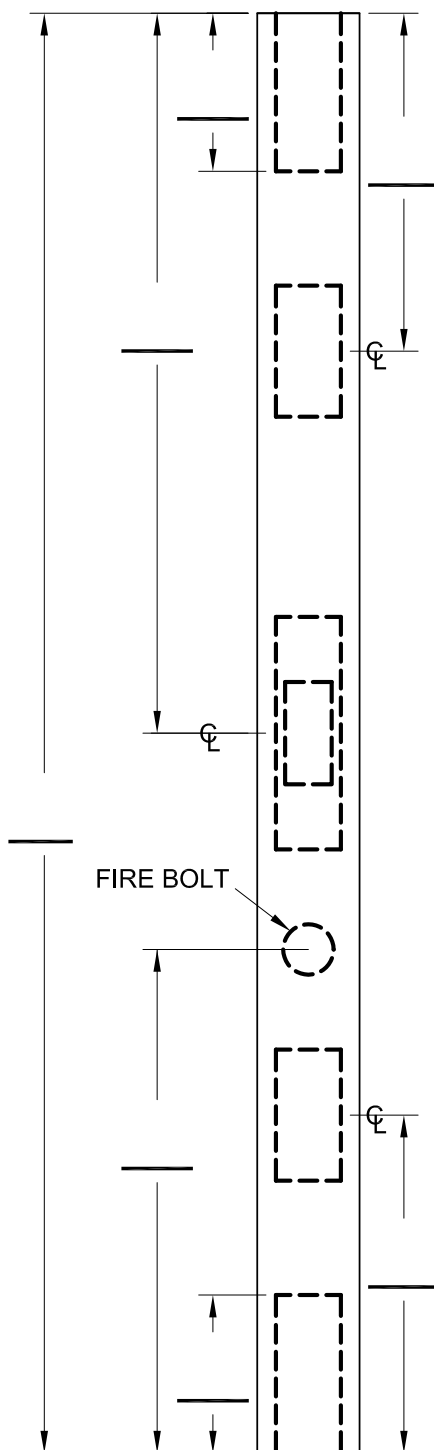
☐ INACTIVE DOOR

LEFT HAND INSIDE RIGHT HAND INSIDE



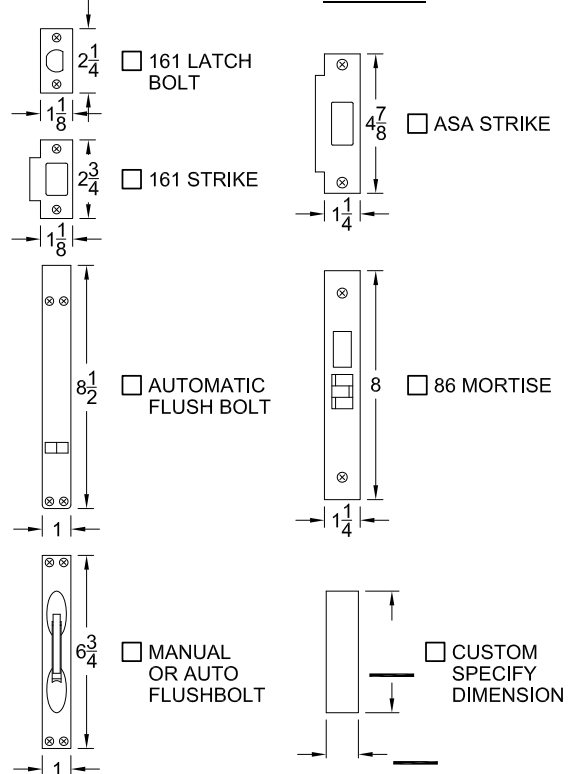
LEFT HAND REVERSE OUTSIDE RIGHT HAND REVERSE OUTSIDE

TOP OF DOOR



FOR USE ON 1-3/4" DOOR STANDARD

☐ FOR USE ON _____" DOOR



☐ FIRE BOLT (SPECIFY HOLE SIZE) _____

☐ HOLLOW METAL DOOR

☐ WOOD DOOR

SPECIAL INSTRUCTIONS

DOOR MARK No.

ALL PREP'S ARE CENTERED UNLESS OTHERWISE SPECIFIED.

PROVIDE MANUFACTURER TEMPLATE FOR EACH CUTOUT (CENTERED)

EDGE GUARD ORDER FORM-INTERNATIONAL DOOR CLOSER-01-01.DWG

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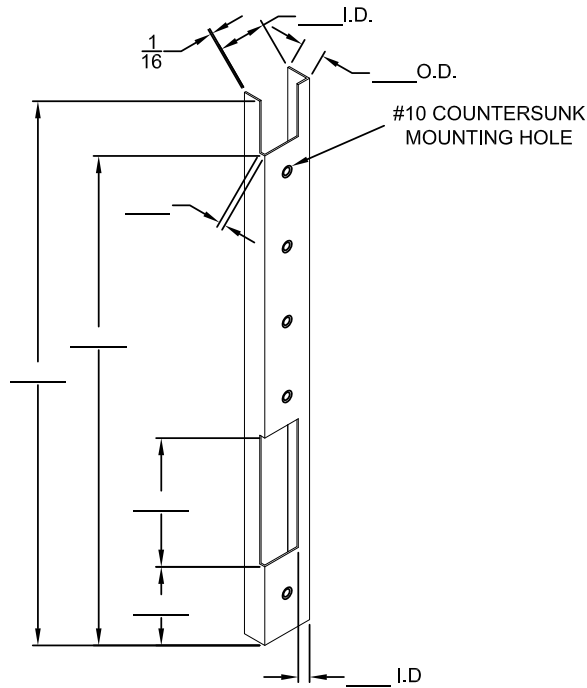
A528, A538, A548

REVISED 01-22-10

CUSTOM EDGE GUARD ORDER FORM

HINGE SIDE

THE #10 COUNTERSUNK MOUNTING HOLE
QUANTITY AND LOCATION WILL BE
DETERMINED AFTER RECEIVING HINGE
LOCATION DIMENSIONS.



- ☐ A538CS
☐ A538CSM

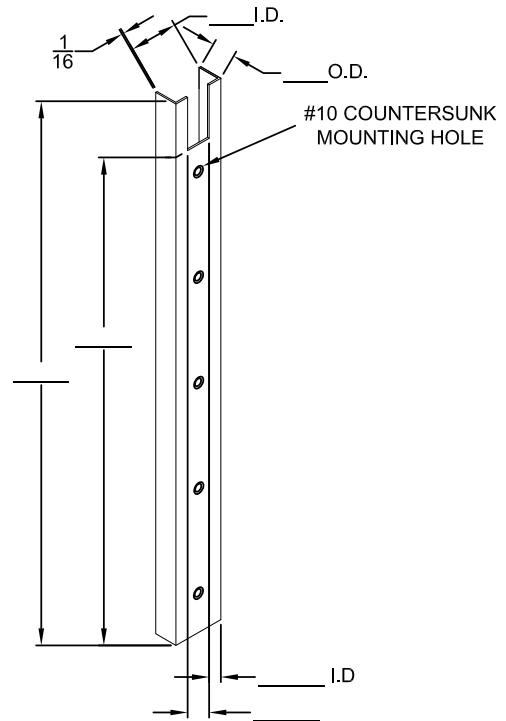
RH QTY. ____
LH QTY. ____

- ☐ A538CB
☐ A538CBM

RH QTY. ____
LH QTY. ____

STRIKE SIDE

THE #10 COUNTERSUNK MOUNTING HOLE
QUANTITY AND LOCATION WILL BE
DETERMINED AFTER RECEIVING HINGE
LOCATION DIMENSIONS.



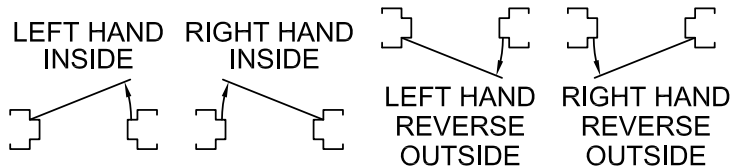
- ☐ A528S
☐ A528SM

RH QTY. ____
LH QTY. ____

- ☐ A528B
☐ A528BM

RH QTY. ____
LH QTY. ____

PROVIDE MANUFACTURER TEMPLATE FOR EACH CUTOUT (CENTERED)



- ☐ HOLLOW METAL DOOR
☐ WOOD DOOR

EDGE GUARD ORDER FORM-INTERNATIONAL DOOR CLOSER-03-01.DWG

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FAX: (714) 666-2215

A528, A538, A548

REVISED 01-22-10