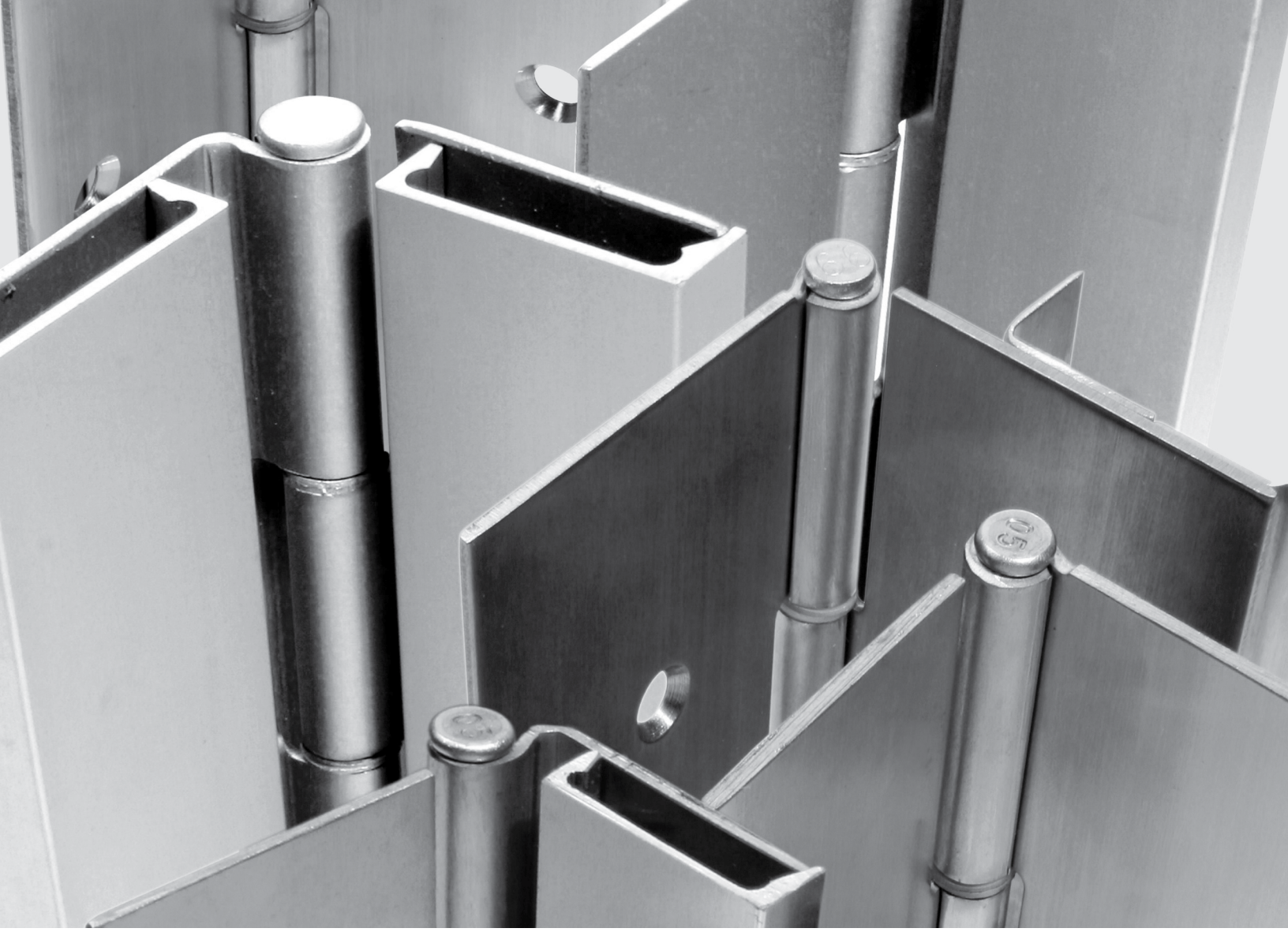









DOOR CLEARANCE GUIDE

MARKAR CONTINUOUS PIN & BARREL HINGES

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Proper door operation and long-term performance depend on selecting the correct door size in relation to the frame dimensions. This Door Clearance Guide is designed to help you accurately determine the door size required for your specific application.

To begin, choose the product type—standard, toilet partition, hinge guard, edge guard, or a combination hinge & edge guard configuration. Next, identify whether the opening uses a single door or a pair of doors. After making these selections, refer to the total undersizing values provided in this guide to calculate the proper door clearance.

Using the correct measurements from the start ensures smooth function, reduces installation issues, and helps maintain the durability of the opening over time.



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UNDER-SIZING REQUIRED FOR NON-ADJUSTABLE DOOR APPLICATIONS

Hinge Side Clearance.....Dimension Specific Per Model
Lock Side Clearance .....1/8" Per N.F.P.A. (For single doors as well as between door pairs)
Frame Irregularities Allowance (Optional) .....1/16" minimum*
*INCREASE DEPENDING ON BEVEL ANGLE; CONTACT PEMKO TECH SUPPORT IF ADDITIONAL INFORMATION IS REQUIRED.

SQUARE EDGE NON-ADJUSTABLE APPLICATIONS

Example for Standard Single Door:

MODEL: (HG305).....	5/16"	Markar Hinge Side Clearance **(A)**
	1/8"	Lock Side Clearance **(B)**
	+1/16"	Frame Irregularity (Optional)
	1/2"	

Example for Standard Pair of Doors:

MODEL: (HG305).....	5/16"	Markar Hinge Side Clearance - Door 1 **(A)**
	5/16"	Markar Hinge Side Clearance - Door 2 **(A)**
	1/8"	Lock Side Clearance - Between Pair of Doors **(B)**
	+1/16"	Frame Irregularity (Optional)
	13/16"	



A - Hinge Side Clearance

B - Lock Side Clearance

Door Width = Frame Width - Under-Size Dimension

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NON-ADJUSTABLE CONTINUOUS HINGES

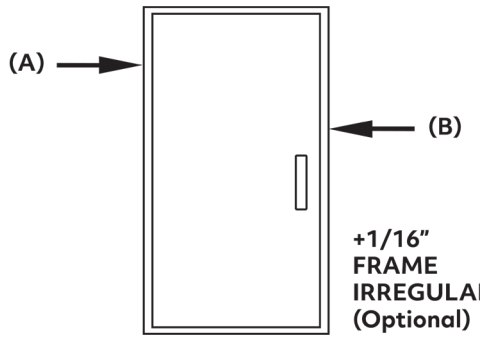
300 SERIES PIN & BARREL STAINLESS STEEL CONTINUOUS HINGES					
MODEL	**Hinge Side Clearance (A)**	**Lock-Side Clearance (B)**	**Frame Irregularity (Optional)**	**Total Under-sizing For Single Door**	**Total Under-sizing For Pair of Doors**
FM300 & FM300WT	1/4"	1/8"	1/16"	7/16"	11/16"
FS301*	1/8"	1/8"	1/16"	5/16"	7/16"
FS302*	1/8"	1/8"	1/16"	5/16"	7/16"
HS303*	1/8"	1/8"	1/16"	5/16"	7/16"
HM304*	1/8"	1/8"	1/16"	5/16"	7/16"
FS/SC309*	1/8"	1/8"	1/16"	5/16"	7/16"

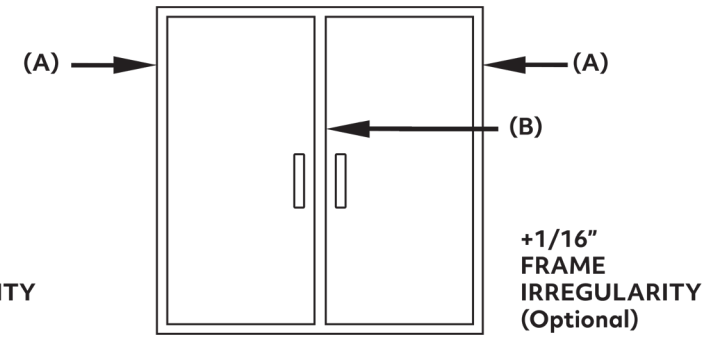
200 SERIES PIN & BARREL CARBON STEEL CONTINUOUS HINGES					
MODEL	**Hinge Side Clearance (A)**	**Lock-Side Clearance (B)**	**Frame Irregularity (Optional)**	**Total Under-sizing For Single Door**	**Tot al Under-sizing For Pair of Doors**
FM200	1/4"	1/8"	1/16"	7/16"	11/16"
HS203*	1/8"	1/8"	1/16"	5/16"	7/16"

100 SERIES PIN & BARREL ALUMINUM CONTINUOUS HINGES					
MODEL	**Hinge Side Clearance (A)**	**Lock-Side Clearance (B)**	**Frame Irregularity (Optional)**	**Total Under-sizing For Single Door**	**Total Under-sizing For Pair of Doors**
FM100	3/8"	1/8"	1/16"	9/16"	15/16"
FS102*	1/8"	1/8"	1/16"	5/16"	7/16"

3500 SERIES PIN & BARREL STAINLESS STEEL SECURITY HINGES					
MODEL	**Hinge Side Clearance (A)**	**Lock-Side Clearance (B)**	**Frame Irregularity (Optional)**	**Total Under-sizing For Single Door**	**Total Under-sizing For Pair of Doors**
FM3500	5/16"	1/8"	1/16"	1/2"	13/16"
FS3501*	1/8"	1/8"	1/16"	5/16"	7/16"
FS3502*	1/8"	1/8"	1/16"	5/16"	7/16"

* Models are compatible with industry standard clearances for butt hinges.





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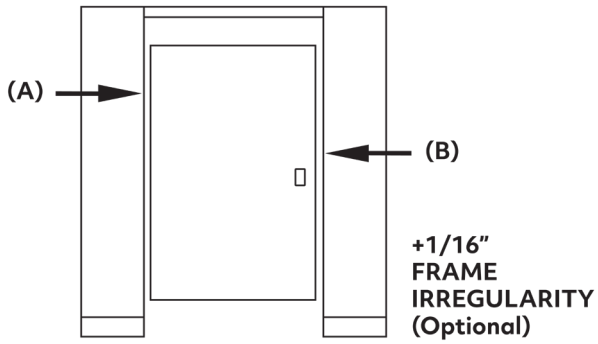
NON-ADJUSTABLE TOILET PARTITION CONTINUOUS HINGES

400 SERIES ALUMINUM PIN & BARREL TOILET PARTITION HINGES				
MODEL	**Hinge Side Clearance (A)**	**Lock-Side Clearance (B)**	**Frame Irregularity (Optional)**	**Total Under-sizing For Single Door**
FM400	3/8"	1/8"	1/16"	9/16"
FS402	1/8"	1/8"	1/16"	5/16"

900 SERIES STAINLESS STEEL PIN & BARREL TOILET PARTITION HINGES				
MODEL	**Hinge Side Clearance (A)**	**Lock-Side Clearance (B)**	**Frame Irregularity (Optional)**	**Total Under-sizing For Single Door**
FS900	1/8"	1/8"	1/16"	5/16"
FS902	1/8"	1/8"	1/16"	5/16"



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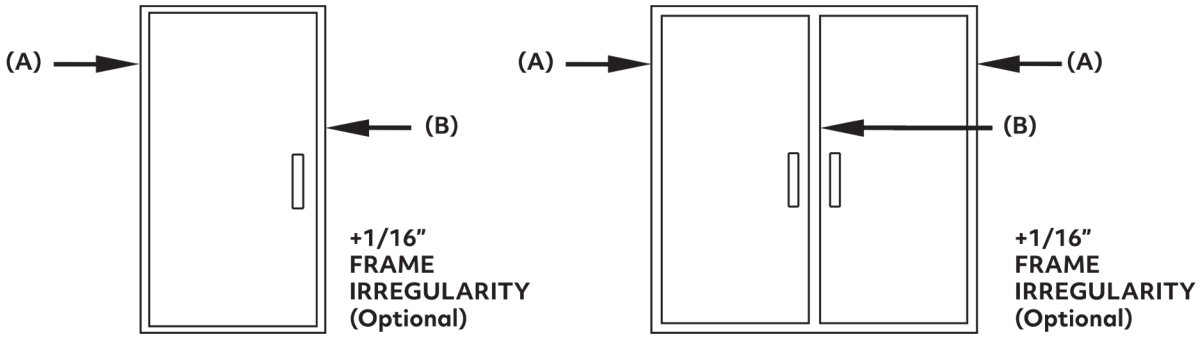
NON-ADJUSTABLE HINGE GUARD CONTINUOUS HINGES

300 SERIES PIN & BARREL STAINLESS STEEL HINGE GUARD CONTINUOUS HINGES					
MODEL	**Hinge Side Clearance (A)**	**Lock-Side Clearance (B)**	**Frame Irregularity (Optional)**	**Total Under-sizing For Single Door**	**Total Under-sizing For Pair of Doors**
HG305 & HG305WT	5/16"	1/8"	1/16"	1/2"	13/16"
HG310	1/4"	1/8"	1/16"	7/16"	11/16"
HG311*	1/8"	1/8"	1/16"	5/16"	7/16"
HG315	1/4"	1/8"	1/16"	7/16"	11/16"
HG323	5/16"	1/8"	1/16"	1/2"	13/16"
HG326	5/16"	1/8"	1/16"	1/2"	13/16"
HG329	1/4"	1/8"	1/16"	7/16"	11/16"

* Models are compatible with industry standard clearances for butt hinges.

3500 SERIES PIN & BARREL STAINLESS STEEL SECURITY HINGES					
MODEL	**Hinge Side Clearance (A)**	**Lock-Side Clearance (B)**	**Frame Irregularity (Optional)**	**Total Under-sizing For Single Door**	**Total Under-sizing For Pair of Doors**
HG3505	5/16"	1/8"	1/16"	1/2"	13/16"



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UNDER-SIZING REQUIRED FOR ADJUSTABLE DOOR APPLICATIONS

Hinge Side Clearance.....Dimension Specific Per Model
Lock Side Clearance .....1/8" Per N.F.P.A. (For single doors as well as between door pairs)
Frame Irregularities Allowance (Optional) .....1/16"
Additional Allowance for Doors with Hinge Side Bevel ..... 1/16" minimum*
*INCREASE DEPENDING ON BEVEL ANGLE; CONTACT PEMKO TECH SUPPORT IF ADDITIONAL INFORMATION IS REQUIRED.

Adjustable hinges require the use of Adjust-A-Screw™ fastners and proper door reinforcements

SQUARE EDGE ADJUSTABLE APPLICATIONS

Example for Adjustable Single Door:

MODEL: (HG305).....	5/16"	Markar Hinge Side Clearance **(A)**
	1/8"	Lock Side Clearance **(B)**
	1/16"	Frame Irregularity (Optional)
	+ 0" - 3/8"	Additional Adjustment Clearance **(C)**
	1/2" min. - 7/8" max	

Example for Adjustable Pair of Doors:

MODEL: (HG305).....	5/16"	Markar Hinge Side Clearance - Door 1 **(A)**
	5/16"	Markar Hinge Side Clearance - Door 2 **(A)**
	1/8"	Lock Side Clearance - Between Pair of Doors **(B)**
	1/16"	Frame Irregularity (Optional)
	0" - 3/8"	Additional Adjustment Clearance - Door 1 **(C)**
	+ 0" - 3/8"	Additional Adjustment Clearance - Door 2 **(C)**
	13/16" min. - 1-9/16" max	



A - Hinge Side Clearance

B - Lock Side Clearance

C - 1/8" for Adjustability

Door Width = Frame Width - Under-Size Dimension

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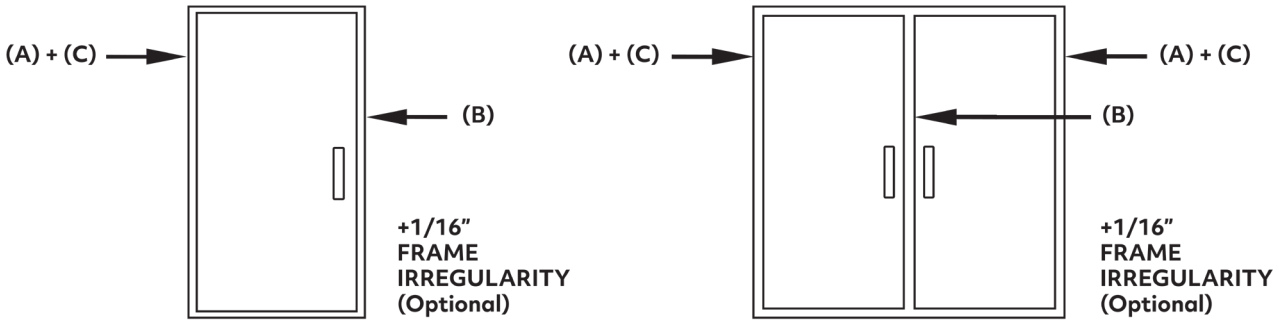
ADJUSTABLE HINGE GUARD CONTINUOUS HINGES

300 SERIES PIN & BARREL STAINLESS STEEL HINGE GUARD CONTINUOUS HINGES						
MODEL	**Hinge Side Clearance (A)**	**Lock-Side Clearance (B)**	**Adjustability Clearance (C)**	**Frame Irregularity (Optional)**	**Total Under-sizing For Single Door**	**Total Under-sizing For Pair of Doors**
HG305 & HG305WT	5/16"	1/8"	up to 3/8"	1/16"	1/2" min. - 7/8" max.	13/16" min - 1-3/16" max
HG310	1/4"	1/8"	up to 3/8"	1/16"	7/16" min - 13/16" max.	11/16" min. - 1-1/16" max.
HG326	1/4"	1/8"	up to 3/8"	1/16"	1/2" min. - 7/8" max.	13/16" min - 1-3/16" max

3500 SERIES PIN & BARREL STAINLESS STEEL SECURITY HINGES						
MODEL	**Hinge Side Clearance (A)**	**Lock-Side Clearance (B)**	**Adjustability Clearance (C)**	**Frame Irregularity (Optional)**	**Total Under-sizing For Single Door**	**Total Under-sizing For Pair of Doors**
HG3505	5/16"	1/8"	1/8"	1/16"	1/2" min. - 7/8" max.	13/16" min - 1-3/16" max

NOTE: Proper door reinforcement and Adjust-A-Screw™ fasteners are required for adjustable feature.



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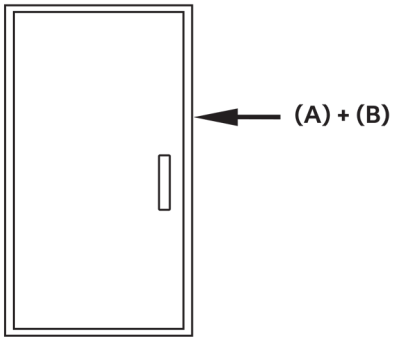
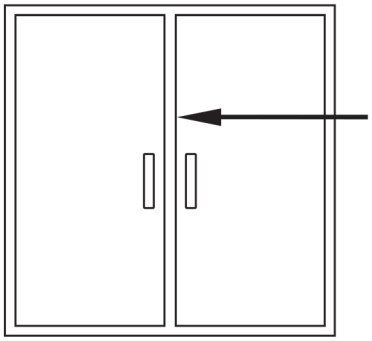
NON-ADJUSTABLE EDGE GUARDS

300 SERIES STAINLESS STEEL CONTINUOUS EDGE GUARD				
MODEL	**Edge Guard Clearance (A)**	**Lock-Side Clearance (B)**	**Total Under-sizing For Single Door**	**Total Under-sizing For Single Door**
EG308	1/16"	1/8"	3/16"	1/4"
EGC308	1/16"	1/8"	3/16"	1/4"
EGT308	1/16"	1/8"	-	1/4"
EG308 + EGT308	1/8"	1/8"	-	1/4"
EGC308 + EGT308	1/8"	1/8"	-	1/4"

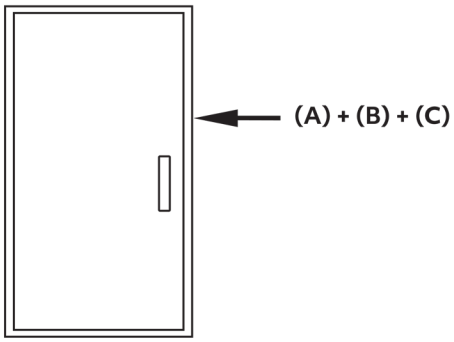


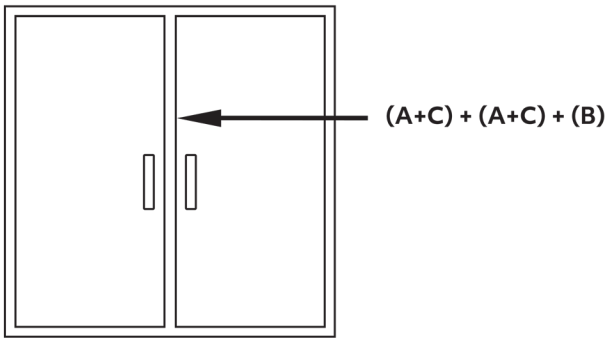


ADJUSTABLE EDGE GUARDS

300 SERIES STAINLESS STEEL CONTINUOUS EDGE GUARD					
MODEL	**Edge Guard Clearance (A)**	**Lock-Side Clearance (B)**	**Adjustability Clearance (C)**	**Total Under-sizing For Single Door**	**Total Under-sizing For Pair of Doors**
EG308	1/16	1/8"	up to 3/8"	3/16" min. - 9/16" max.	3/8" min. - 1-1/8" max
EGT308	1/16	1/8"	up to 3/8"	3/16" min. - 9/16" max.	3/16" min. - 9/16" max.
EG308 + EGT308	1/16 + 1/16	1/8"	up to 3/8"	1/4" min. - 5/8" max.	3/8" min. - 1-1/8" max

NOTE: Proper door reinforcement and Adjust-A-Screw™ fasteners are required for adjustable feature.





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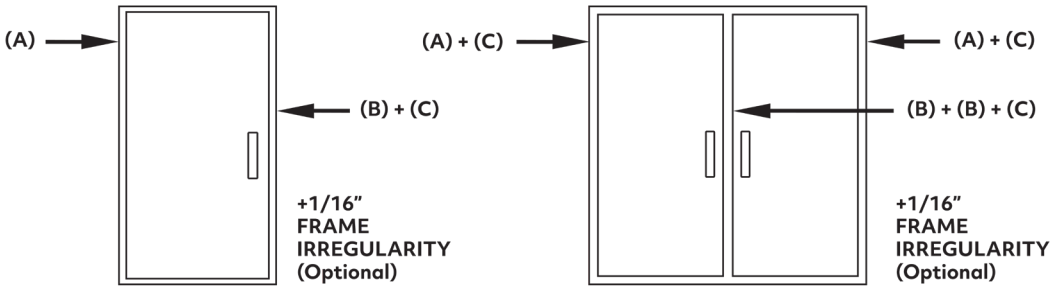
NON-ADJUSTABLE COMBINATION HINGE GUARD CONTINUOUS HINGES & EDGE GUARDS

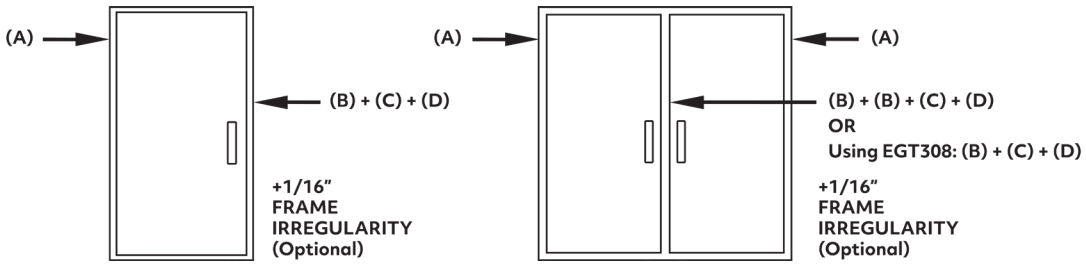
300 SERIES STAINLESS STEEL CONTINUOUS HINGE AND EDGE GUARD					
Combination Models	**Hinge Side Clearance (A) & Edge Guard Clearance (B)**	**Lock-Side Clearance (C)**	**Frame Irregularity (Optional)**	**Total Under-sizing For Single Door**	**Total Under-sizing For Pair of Doors**
HG305/HG305WT & EG308/EGC308/EGT308	(A) = 5/16" (B) = 1/16"	1/8"	1/16"	9/16"	15/16"
HG315 & EG308/ EGC308/EGT308	(A) = 1/4" (B) = 1/16"	1/8"	1/16"	1/2"	13/16"
HG329 & EG308/ EGC308/EGT308	(A) = 1/4" (B) = 1/16"	1/8"	1/16"	1/2"	13/16"



ADJUSTABLE COMBINATION HINGE GUARD CONTINUOUS HINGES & EDGE GUARDS

300 SERIES STAINLESS STEEL CONTINUOUS HINGE AND EDGE GUARD						
Combination Models	**Hinge Side Clearance (A) & Edge Guard Clearance (B)**	**Lock-Side Clearance (C)**	**Adjustability Clearance (D)**	**Frame Irregularity (Optional)**	**Total Under-sizing For Single Door**	**Total Under-sizing For Pair of Doors**
HG305/HG305WT & EG308	(A) = 5/16 (B) = 1/16	1/8"	Up to 3/8" per piece	1/16"	9/16" min. - 1-5/16" max.	15/16" min. - 2-7/16" max.
HG305/HG305WT & EGT308	(A) = 5/16 (B) = 1/16	1/8"	Up to 3/8" per piece	1/16"	–	7/8" min. - 2" max.
HG3505 & EG308	(A) = 5/16 (B) = 1/16	1/8"	Up to 3/8" per piece	1/16"	9/16" min. - 1-5/16" max.	15/16" min. - 2-7/16" max.

NOTE: Proper door reinforcement and Adjust-A-Screw™ fasteners are required for adjustable feature.



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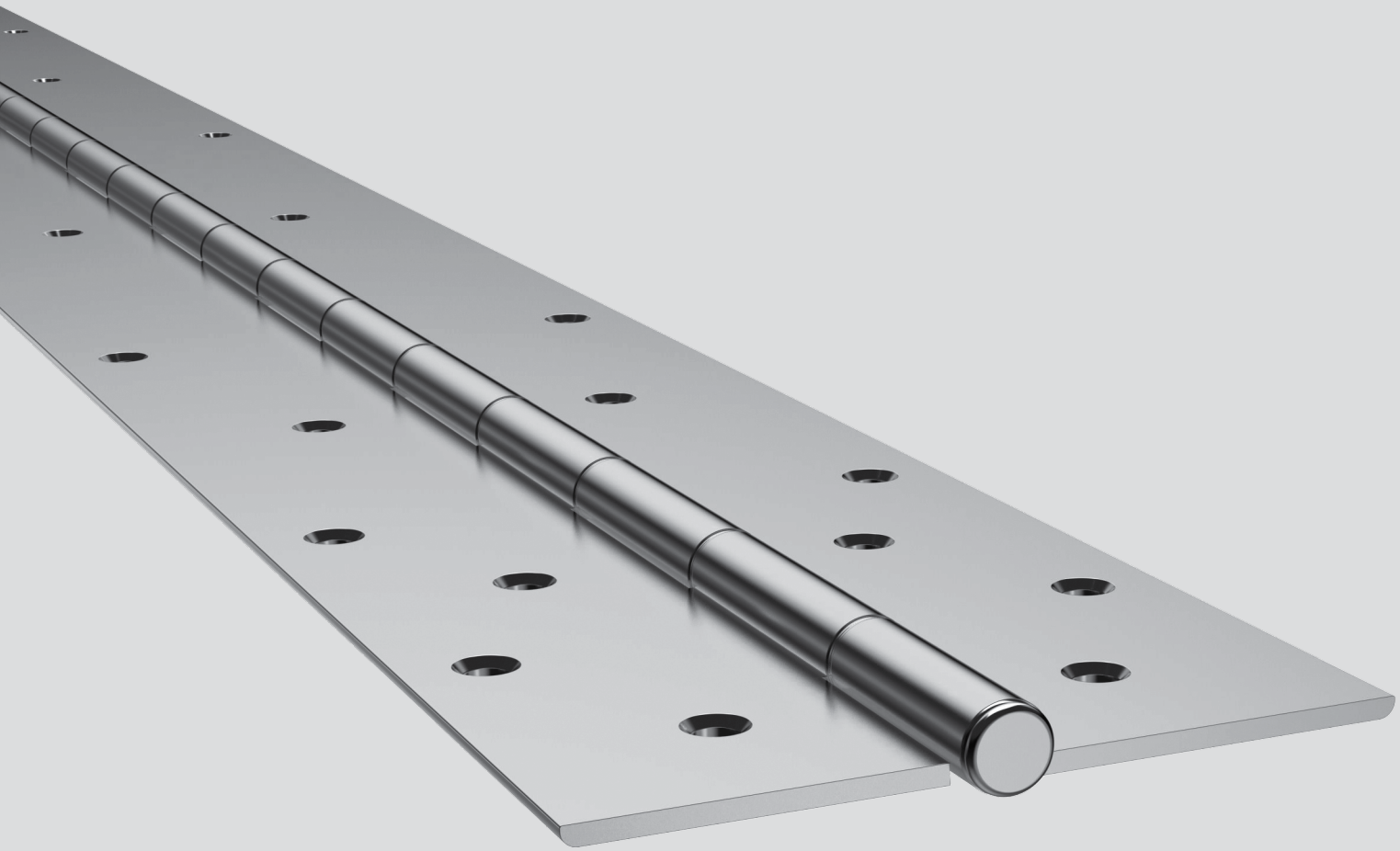

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