

## Continuous Hinge Applications

Information Bulletin 421



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**Eggers Industries**

Continuous hinges require special prefitting. The issue is complicated by the following three things:

- 1) Different continuous hinges require different clearance dimensions for the hinges themselves.
- 2) Some hinge manufacturers recommend 3/16" meeting edge clearance for pairs. Both WDMA I.S.1A and NFPA-80 list the meeting edge clearance for pairs of wood doors as 1/8".
- 3) Some of the prefit dimensions shown on the hinge manufacturer's literature include an "extra" prefit dimension for anticipated frame variation.

The dimensions below are based on the hinge requirement, 1/8" meeting edge clearances, and a 1/32" per leaf allowance for frame irregularities.

Hinge Model	Fire Labeled	Hinge Edge	Single Swing	Standard Swing Pair	DE Pair
ABH A110HD	Up to 90-min	Square	15/32"	13/32"	11/32"
		Beveled	1/2"	7/16"	3/8"
ABH A240HD	Up to 90-min	Square	15/32"	13/32"	11/32"
		Beveled	1/2"	7/16"	3/8"
ABH A240LL	Up to 90-min	Square	15/32"	13/32"	11/32"
		Beveled	1/2"	7/16"	3/8"
ABH A500	Up to 90-min	Square	13/32"	11/32"	9/32"
		Beveled	13/32"	11/32"	9/32"
Hagar (Roton) 780-041 HD	Up to 90-min	Square	15/32"	13/32"	11/32"
		Beveled	N/A	N/A	N/A
Hagar (Roton) 780-111 HD	Up to 90-min	Square	15/32"	13/32"	11/32"
		Beveled	1/2"	7/16"	3/8"
Hagar (Roton) 780-112 HD	Up to 90-min	Square	15/32"	13/32"	11/32"
		Beveled	1/2"	7/16"	3/8"
Hagar (Roton) 780-224 HD and IVES 224HD	Up to 90-min	Square	15/32"	13/32"	11/32"
		Beveled	1/2"	7/16"	3/8"
Hagar 790-900	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	N/A	N/A	N/A
Hagar 790-911	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	N/A	N/A	N/A

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Hagar 790-915	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	N/A	N/A	N/A
Ives 112HD	Up to 90-min	Square	15/32"	13/32"	11/32"
		Beveled	1/2"	7/16"	3/8"
Ives 600/700	Up to 90-min	Square	13/32"	11/32"	9/32"
		Beveled	7/16"	3/8"	5/16"
Ives 705 Without Adjustable Studs	Up to 90-min	Square	17/32"	15/32"	13/32"
		Beveled	9/16"	1/2"	7/16"
Ives 705 Using Adjustable Studs	Up to 90-min	Square	21/32"	19/32"	17/32"
		Beveled	11/16"	5/8"	9/16"
Markar HG305	Up to 90-min	Square	17/32"	15/32"	13/32"
		Beveled	17/32"	15/32"	13/32"
Markar HG315	Up to 90-min	Square	13/32"	11/32"	9/32"
		Beveled	13/32"	11/32"	9/32"
Markar HS-103	Non-Label	Square	11/32"	9/32"	7/32"
		Beveled	11/32"	9/32"	7/32"
Markar FM100	Non-Label	Square	17/32"	15/32"	13/32"
		Beveled	17/32"	15/32"	13/32"
Markar FM200	Up to 90-min	Square	13/32"	11/32"	9/32"
		Beveled	13/32"	11/32"	9/32"
Markar FM300	Up to 90-min	Square	13/32"	11/32"	9/32"
		Beveled	13/32"	11/32"	9/32"
Markar FM-3500	Up to 90-min	Square	15/32"	13/32"	11/32"
		Beveled	15/32"	13/32"	11/32"
McKinney 12HD	Up to 90-min	Square	15/32"	13/32"	11/32"
		Beveled	15/32"	13/32"	11/32"
McKinney 14HD	Up to 90-min	Square	15/32"	13/32"	11/32"
		Beveled	15/32"	13/32"	11/32"
McKinney 25HD	Up to 90-min	Square	15/32"	13/32"	11/32"
		Beveled	15/32"	13/32"	11/32"
Mckinney FM300	Up to 90-min	Square	13/32"	11/32"	9/32"
		Beveled	13/32"	11/32"	9/32"
PBB CG31	Up to 90-min	Square	15/32"	13/32"	11/32"
		Beveled	1/2"	7/16"	3/8"

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PBB CH31	Up to 90-min	Square	15/32"	13/32"	11/32"
		Beveled	1/2"	7/16"	3/8"
PBB CH51	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	7/16"	3/8"	5/16"
Pemko CFM 83HD	Up to 90-min	Square	15/32"	13/32"	11/32"
		Beveled	15/32"	13/32"	11/32"
Pemko SPBFM	Up to 90-min	Square	13/32"	11/32"	9/32"
		Beveled	7/16"	3/8"	5/16"
Select SL-11 HD	Up to 90-min	Square	15/32"	13/32"	11/32"
		Beveled	1/2"	7/16"	3/8"
Select SL-18 HD	Up to 90-min	Square	15/32"	13/32"	11/32"
		Beveled	1/2"	7/16"	3/8"
Select SL-24 HD	Up to 90-min	Square	15/32"	13/32"	11/32"
		Beveled	1/2"	7/16"	3/8"
Select SL300	Up to 90-min	Square	13/32"	11/32"	9/32"
		Beveled	15/32"	13/32"	11/32"
Select SL305	Up to 90-min	Square	17/32"	15/32"	13/32"
		Beveled	N/A	N/A	N/A
Stanley 661 & 661HD	Up to 90-min	Square	15/32"	13/32"	11/32"
		Beveled	1/2"	7/16"	3/8"
Stanley 641 & 651	Up to 90-min	Square	3/8"	5/16"	1/4"
		Beveled	27/64"	23/64"	19/64"
Stanley 643 & 653	Up to 90-min	Square	13/32"	11/32"	9/32"
		Beveled	13/32"	11/32"	9/32"
Stanley 646 & 656 Swing Clear	Up to 90-min	Square	5/16"	1/4"	3/16"
		Beveled	N/A	N/A	N/A
Stanley 662 & 662HD	Up to 90-min	Square	15/32"	13/32"	11/32"
		Beveled	1/2"	7/16"	3/8"

When determining prefit door dimensions for continuous hinge clearances the following wording should be part of the customer acknowledgement, "Prefit sizes for doors with continuous hinges are based on hinge requirement, 1/8" latch or meeting edge clearances and 1/32" per leaf allowance for frame irregularity. Please advise if you wish to request a different prefit clearance".

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Note: If the continuous hinge you are using is not included in this table please either verify that the hinge manufacturer's dimensions apply to wood/composite doors, or bring it to the technical department to verify and add to the above table.