

# Grass Half Cranked Hinge (48mm) for Back-to-Back/Partial Overlay Cabinets

## REVEAL & OVERLAY TABLES

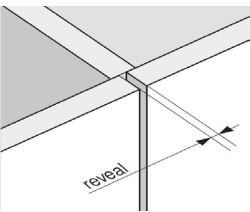
**WHAT IS A REVEAL?**

**FOR OVERLAY DOORS**

**HOW TO USE THESE CHARTS**

When a door swings, it needs a certain amount of clearance at both ends of the door so that anything close (ie. another door or a side panel) does not interfere with the opening door. This clearance gap is called the reveal.

For overlay doors, the minimum reveal is important only if the door is close to something (ie door or wall). The reveal is the gap between the edge of the door and the second door or wall. If you have back-to-back doors you must consider that both doors may be open at the same time so you need a minimum reveal that is double what the second table says.



The first table below shows the reveal between two back-to-back doors based on bore distance and cabinet side wall thickness. The bore distance is the distance from the edge of the door to the edge of the cup that is drilled in the back of the door (see page two of this document for further information). When doing replacements, take your bore distance and cabinet side wall thickness to determine what your reveal will be using this hinge.

The second table below shows the minimum amount of reveal required for this hinge depending on bore distance and door thickness. This applies to both single and back-to-back door applications. For new installations, start by determining what reveal distance is possible and/or desired using the first chart. Use the second chart to verify that your door thickness will accommodate the desired reveal.

Example: If you have a 19mm thick side wall and want a 3mm reveal, you would need to have a 5mm bore distance. To determine possible door thickness options you would then use the second table. With a 5mm bore distance and a 3mm back-to-back reveal, that would allow up to a 1.5mm reveal per door. This tells us that we could safely use a door ranging from 16mm to 20mm in thickness. While using a 22mm thick door is possible, it would cause binding issues between two doors if you wanted to open both at the same time.

APPOXIMATE CONVERSION CHART	
3mm	1/8"
4mm	5/32"
5mm	3/16"
5.5mm	7/32"
6mm	1/4"
7mm	9/32"
8mm	5/16"
9mm	11/32"
9.5mm	3/8"
10mm	13/32"
11mm	7/16"
12mm	15/32"
13mm	1/2"
13.5mm	17/32"
14mm	9/16"
15mm	19/32"
16mm	5/8"
17mm	11/16"
18mm	23/32"
19mm	3/4"
20mm	25/32"
20.5mm	7/8"
21mm	27/32"
22mm	7/8"
23mm	29/32"
24mm	15/16"
25.4mm	1"
26mm	1-1/32"
27mm	1-1/16"
28mm	1-3/32"
29mm	1-1/18"
30mm	1-3/16"
31mm	1-7/32"
32mm	1-1/4"
33mm	1-5/16"
34mm	1-11/32"
35mm	1-3/8"
36mm	1-13/32"

### BACK-TO-BACK REVEAL

		BORE DISTANCE				
		3MM	4MM	5MM	6MM	7MM
SIDE WALL THICKNESS	16MM	4mm	2mm	N/A	N/A	N/A
	19MM	7mm	5mm	3mm	1mm	N/A
	22MM	10mm	8mm	6mm	4mm	2mm

### MINIMUM REVEAL (PER DOOR)

		BORE DISTANCE				
		3MM	4MM	5MM	6MM	7MM
DOOR THICKNESS	16MM	0.5mm	0.5mm	0.5mm	0.5mm	0.5mm
	18MM	1.0mm	1.0mm	1.0mm	1.0mm	1.0mm
	19MM	1.2mm	1.2mm	1.2mm	1.2mm	1.2mm
	20MM	2.2mm	1.5mm	1.5mm	1.5mm	1.5mm
	22MM	4.7mm	3.7mm	2.8mm	2.1mm	2.1mm

\*Table values are based on doors where the edges are rounded with a 1mm radius. Numbers are reduced for doors with larger radiused corners.

# Grass Half Cranked Hinge (48mm) for Back-to-Back/Partial Overlay Cabinets

## REVEAL & OVERLAY TABLES

### PARTIAL OVERLAY APPLICATIONS

While half cranked European hinges are most commonly used in back-to-back installations, they can also be used for single doors with a small (aka partial) overlay. Use the table below to determine if this hinge will work for you, depending on your bore distance. Note that these hinges are adjustable +1mm & -3mm after installation, thus a range is given. As an example, the unadjusted overlay for a 3mm bore distance with the 2mm plate would be 6mm.

OVERLAY TABLE

		BORE DISTANCE				
		3MM	4MM	5MM	6MM	7MM
OVERLAY RANGE	3MM TO 7MM	2mm Plate (SKU 207104)				
	4MM TO 8MM		2mm Plate (SKU 207104)			
	5MM TO 9MM			2mm Plate (SKU 207104)		
	6MM TO 10MM				2mm Plate (SKU 207104)	
	7MM TO 11MM					2mm Plate (SKU 207104)

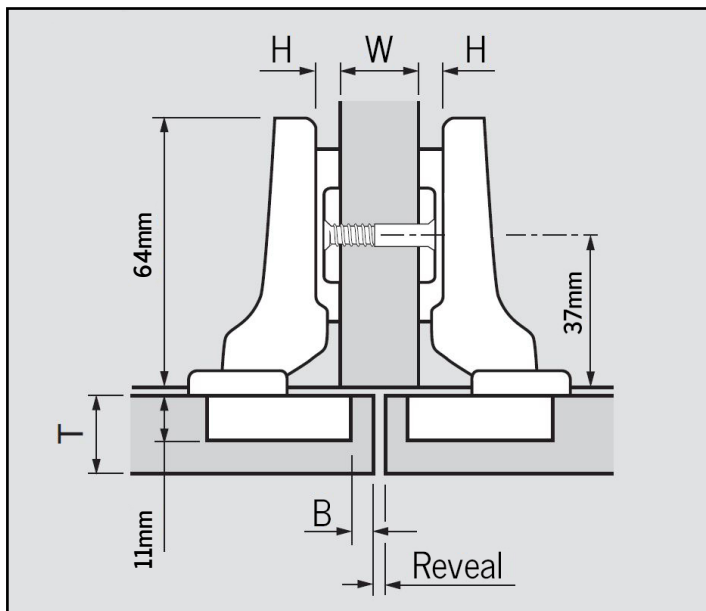
### APPOXIMATE CONVERSION CHART

3mm	1/8"
4mm	5/32"
5mm	3/16"
5.5mm	7/32"
6mm	1/4"
7mm	9/32"
8mm	5/16"
9mm	11/32"
9.5mm	3/8"
10mm	13/32"
11mm	7/16"
12mm	15/32"
13mm	1/2"
13.5mm	17/32"
14mm	9/16"
15mm	19/32"
16mm	5/8"
17mm	11/16"
18mm	23/32"
19mm	3/4"
20mm	25/32"
20.5mm	7/8"
21mm	27/32"
22mm	7/8"
23mm	29/32"
24mm	15/16"
25.4mm	1"
26mm	1-1/32"
27mm	1-1/16"
28mm	1-3/32"
29mm	1-1/18"
30mm	1-3/16"
31mm	1-7/32"
32mm	1-1/4"
33mm	1-5/16"
34mm	1-11/32"
35mm	1-3/8"
36mm	1-13/32"

### BORE DISTANCE

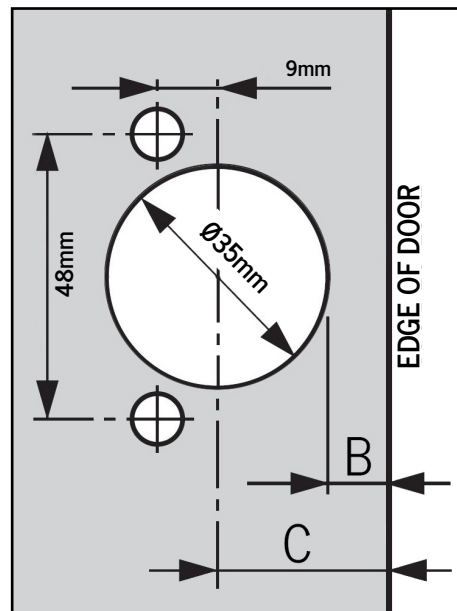
Bore distance (also commonly referred to as the "tab") is how far the hole in the back of your door is drilled from the edge of the door. It is important to get an accurate bore distance measurement to make sure your doors sit in the proper position for both replacements and new installations. The diagrams below can be used to help further understand the back-to-back installation in general, as well as more specific dimensions such as reveal and bore distance.

BACK-TO-BACK INSTALLATION (TOP-DOWN VIEW)



H = Plate Height    W = Side Panel Thickness    T = Door Thickness

BORE HOLE PATTERN (BACKSIDE OF DOOR)



B = Bore Distance    C = Cup Centerpoint