Blum 170 Degree Back-to-Back/Partial Overlay Hinge

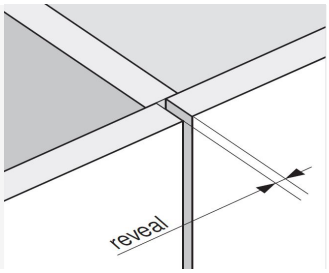
REVEAL & OVERLAY TABLES

WHAT IS A REVEAL?

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

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, as seen in the image to the right.



HOW TO USE THESE CHARTS

The 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, you will need to measure your current cabinet side wall thickness and bore distance to see what reveal you will get with this setup. If doing a new installation, start by determining what reveal you want between your doors. Use the chart to then determine how thick your side wall thickness and bore distance needs to be.

New installation example: If you want a 0mm reveal, you would most easily attain that by using a 19mm side wall thickness and an 8mm bore distance. Alternatively, you could also use a 16mm side wall thickness with a 6mm bore distance. This standard gives you a 1mm reveal that can be adjusted down to 0mm (as these hinges offer +- 2mm in adjustment).

BACK-TO-BACK REVEAL

SIDE WALL THICKNESS	BORE DISTANCE					
	3MM	4MM	5MM	6MM	7MM	8MM
16MM	7mm	5mm	3mm	1mm	N/A	N/A
19MM	10mm	8mm	6mm	4mm	2mm	0mm
22MM	13mm	11mm	9mm	7mm	5mm	3mm

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”

HardwareSource

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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 +-2mm after installation. The true overlay dimension is in the middle of this listed range (e.g. 2.5mm to 6.5mm is a 4.5mm overlay dimension before adjustment).

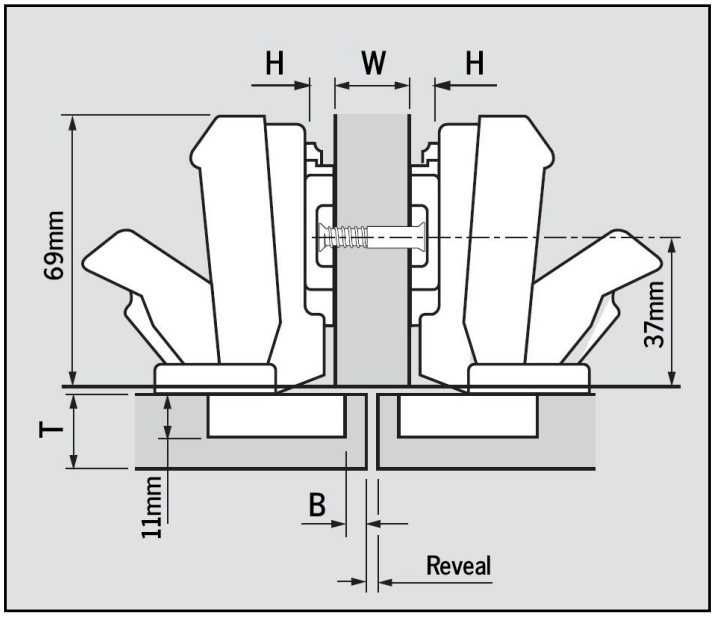
OVERLAY TABLE

OVERLAY RANGE	BORE DISTANCE					
	3MM	4MM	5MM	6MM	7MM	8MM
2.5MM TO 6.5MM	0mm Plate (SKU 652296)					
3.5MM TO 7.5MM		0mm Plate (SKU 652296)				
4.5MM TO 8.5MM			0mm Plate (SKU 652296)			
5.5MM TO 9.5MM				0mm Plate (SKU 652296)		
6.5MM TO 10.5MM					0mm Plate (SKU 652296)	
7.5MM TO 11.5MM						0mm Plate (SKU 652296)

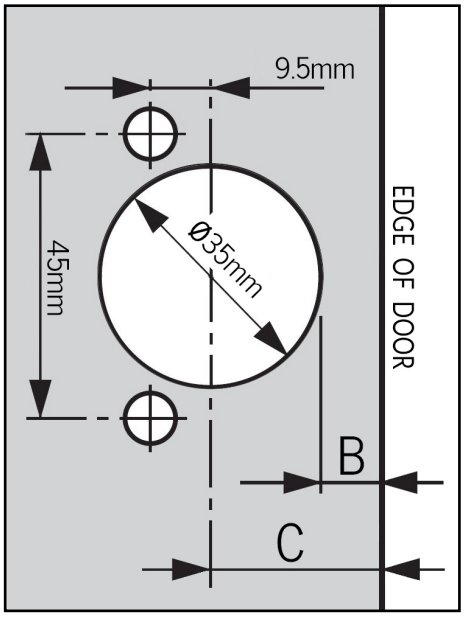
BORE DISTANCE

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)



BORE HOLE PATTERN
(BACKSIDE OF DOOR)



H = Plate Height **W** = Side Panel Thickness **T** = Door Thickness **B** = Bore Distance **C** = Cup Centerpoint

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"
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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"