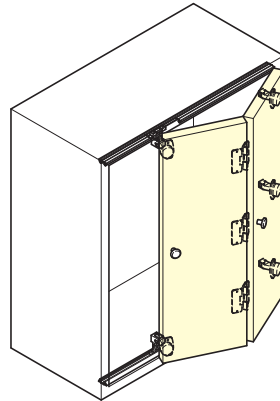


# FOLDING DOOR SYSTEM

# KF111-A

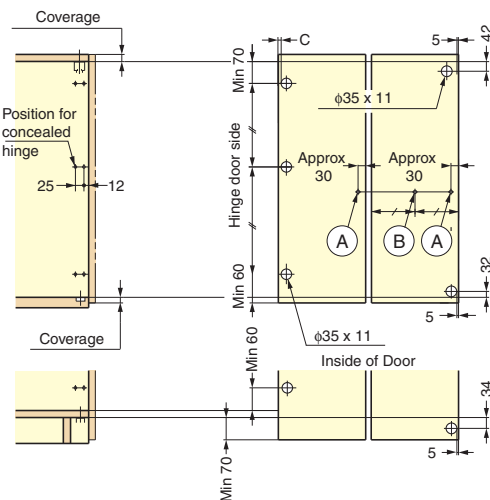
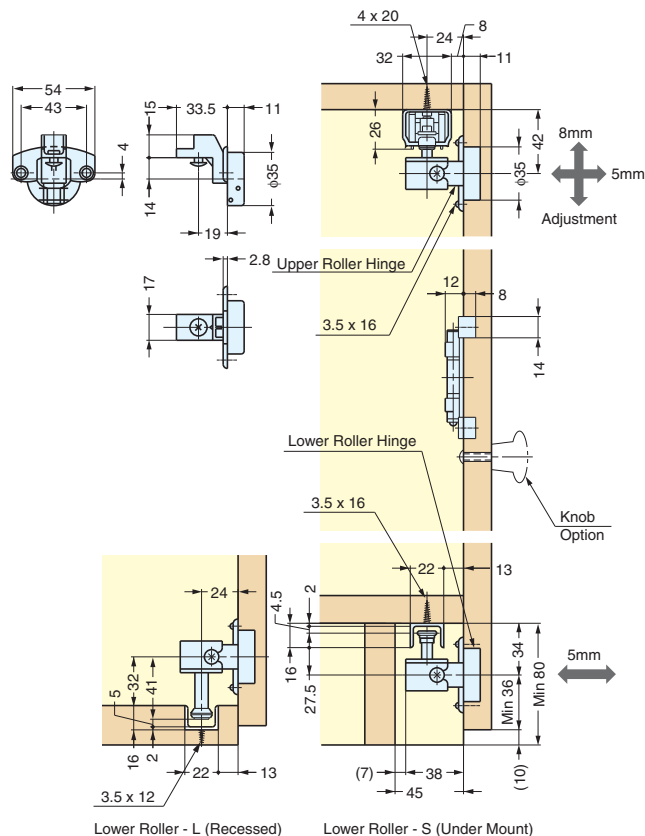


- For lightweight overlay door panels.
- Center hinge has spring mechanism to assist opening/closing.
- Adjustable with sliding guide parts.

|                |  |
|----------------|--|
| Door Width     | Max. 450mm                                     |
| Door Height    | Max. 2400mm                                    |
| Door Thickness | 15-35mm  |
| Door Weight    | Max. 10kg                                      |
| Coverage       | Max. 19mm (with Sugatsune 230 concealed hinge) |

KF111-A Part Details (For 2 doors, one side open)

| Item No.        | Part Name                      |  | Quantity (pcs)     | Description  |
|-----------------|--------------------------------|--|--------------------|--|
| 230-26/19T      | Concealed Hinge                |  | Necessary quantity | Material and Finish: Steel, Nickel   |
| 230-P4W-32T     | Mounting Plate                 |  | Necessary quantity | Material and Finish: Steel, Nickel   |
| CH-75-NI        | Center Hinge                   |  | Necessary quantity | Material: Zinc Alloy, Polyacetal   |
| CH-75-GB        |                                |  |                    | Finish: Nickel (NI), Bronze (GB)   |
| FD111-TRA       | Upper Roller                   |  | 1                  | Material: Steel, Polyacetal<br>Finish: Natural, Yellow Zinc Chromate   |
| FD111-BRS       | Lower Roller - S (Under Mount) |  | 1                  | Material: Zinc Alloy, Polyacetal<br>Finish: Natural, Yellow Zinc Chromate                                    |
| FD111-BRL       | Lower Roller - L (Recessed)    |  |                    | Material: Zinc Alloy, Polyacetal<br>Finish: Natural, Yellow Zinc Chromate                                    |
| FD111-910-SIL   | Upper Rail                     |  | 1                  | Material: Alluminum<br>Finish: Anodized<br>Color: Silver (SIL), Bronze (GB)<br>Length: 910mm, 1220mm, 1820mm |
| FD111-1220-SIL  |                                |  |                    |  |
| FD111-1820-SIL  |                                |  |                    |  |
| FD111-910-GB    |                                |  |                    |  |
| FD111-1220-GB   |                                |  |                    |  |
| FD111-1820-GB   |                                |  |                    |  |
| FD2216-910-SIL  | Lower Rail                     |  | 1                  | Material: Alluminum<br>Finish: Anodized<br>Color: Silver (SIL), Bronze (GB)<br>Length: 910mm, 1220mm, 1820mm |
| FD2216-1220-SIL |                                |  |                    |  |
| FD2216-1820-SIL |                                |  |                    |  |
| FD2216-910-GB   |                                |  |                    |  |
| FD2216-1220-GB  |                                |  |                    |  |
| FD2216-1820-GB  |                                |  |                    |  |



**Handle Installation**

Recommended handle mounting position (A) for opening & (A') for closing the door.

Install one handle at (B) position is also applicable for both opening & closing.

Required Parts

| Door Height | 230-26/19T Concealed Hinge (pcs) | CH-75 Center Hinge (pcs) |
|-------------|----------------------------------|--------------------------|
| 900mm       | 2                                | 2                        |
| 1600mm      | 3                                | 2                        |
| 2000mm      | 4                                | 3                        |
| 2400mm      | 5                                | 4                        |

| Coverage at hinge door side | C - Dimension |
|-----------------------------|---------------|
| 19mm                        | 5mm           |
| 18mm                        | 4(5)mm        |
| 17mm                        | 3(4)mm        |

( ) shows hinge adjustable range

Cabinet / Door width dimensions (Sugatsune 230-26/19T concealed hinge used)

| Application  | Hinged door at 90° open  | Hinged door at 95° open  | Other door at 87° open  |
|--|--|--|---|
| <p><b>2 Doors folding</b></p> <p>W = Width of inside cabinet<br/>W<sub>1</sub> = Width of door ① and ④<br/>W<sub>2</sub> = Width of door ② and ③<br/>W<sub>3</sub> = Width of door ③<br/>E = Coverage<br/>θ = Opening angle at hinged door</p> | $W_1 = \frac{W + 2E - 4.8}{2}$ $W_2 = W_1 + 3.2$               | $W_1 = \frac{W + 2E - 7.8}{2}$ $W_2 = W_1 + 6.2$               | $W_1 = \frac{W + 2E - 1.6}{2}$ $W_2 = W_1$ <p>Opening angle = 87°</p>       |
| <p><b>2 Doors folding and 1 swing open</b></p>   | $W_3 = W_1$ $W_1 = \frac{W_3 + 2E - 6.4}{3}$ $W_2 = W_1 + 3.2$ | $W_3 = W_1$ $W_1 = \frac{W_3 + 2E - 9.4}{3}$ $W_2 = W_1 + 6.2$ | $W_1 = \frac{W + 2E - 3.2}{3}$ $W_1 = W_2 = W_3$ <p>Opening angle = 87°</p> |
| <p><b>2 Doors folding and 2 Doors folding</b></p>  | $W_1 = \frac{W + 2E - 11.2}{4}$ $W_2 = W_1 + 3.2$              | $W_1 = \frac{W + 2E - 17.2}{4}$ $W_2 = W_1 + 6.2$              | $W_1 = \frac{W + 2E - 4.8}{4}$ $W_1 = W_2$ <p>Opening angle = 87°</p>       |