

## 5 Knuckle Hinges

### Full Mortise Standard Weight Plain Bearing

**F179** – [ANSI A8133 except for 3" x 3"] Steel – polished and plated or phosphated and prime coated for painting

**F191** – [ANSI A2133] Brass or bronze – polished and plated or painted

**F191 (32)** – [ANSI A5133] Stainless steel – highly polished

**F191 (32D)** – [ANSI A5133] Stainless steel – satin finish



- For use on internal or external doors without door closers in hospitals, churches, schools, airports, hotels, malls, apartment houses, office buildings, etc.
- All hinges have template screw hole location for use on either wood or hollow metal doors and frames
- Use anti-friction bearing hinges on high and average frequency doors and all doors equipped with door closers
- Hinges can be furnished with hospital tips [HT]



Size Open		Gauge of Metal		Flat Head Screws Per Piece		Quantity Per		Case Weight		Case Weight	
						Box	Case	Bronze		Steel	
Inches	[mm]	Inches	[mm]	Machine	Wood	Each	Each	Lbs.	[Kg]	Lbs.	[Kg]
3 x 3*	[76 x 76]	.080	[2]		6 - 9 x 3/4	2	100	32	[15]		
3-1/2 x 3	[89 x 76]	.123	[3.1]	6 - 10-24 x 1/2	6 - 10 x 1	2	100	60	[27]	64	[29]
3-1/2 x 3-1/2	[89 x 89]	.123	[3.1]	6 - 10-24 x 1/2	6 - 10 x 1	2	100	66	[30]	72	[33]
4 x 3-1/2	[102 x 89]	.130	[3.3]	8 - 12-24 x 1/2	8 - 12 x 1-1/4	3	48	38	[17]	44	[20]
4 x 4	[102 x 102]	.130	[3.3]	8 - 12-24 x 1/2	8 - 12 x 1-1/4	3	48	43	[20]	46	[21]
4-1/2 x 4	[114 x 102]	.134	[3.4]	8 - 12-24 x 1/2	8 - 12 x 1-1/4	3	48	51	[23]	54	[25]
4-1/2 x 4-1/2	[114 x 114]	.134	[3.4]	8 - 12-24 x 1/2	8 - 12 x 1-1/4	3	48	55	[25]	60	[27]
*5 x 4	[127 x 102]	.146	[3.7]	8 - 12-24 x 1/2	8 - 12 x 1-1/4	3	30	40	[18]	43	[20]
*5 x 4-1/2	[127 x 127]	.146	[3.7]	8 - 12-24 x 1/2	8 - 12 x 1-1/4	3	30	43	[20]	46	[21]
*5 x 5	[127 x 127]	.146	[3.7]	8 - 12-24 x 1/2	8 - 12 x 1-1/4	3	48	46	[21]	51	[23]

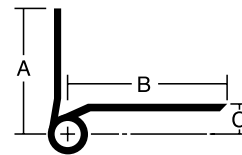
\*Steel only – for other substrates consult factory

### Half Surface Standard Weight Plain Bearing

**F173** – [ANSI A8433] Steel – polished and plated or phosphated and prime coated for painting



- For low frequency kalamein or wood doors
- Use ball bearing hinges on all doors equipped with door closers
- Easily applied as only jamb leaf is mortised
- Packed with machine screws and grommet nuts



Measurements below



Size Length of Joint		Width		Offset		Gauge of Metal		Flat Head Screws Per Piece		Quantity Per		Case Weight	
		Frame Leaf [A]	Door Leaf [B]	Door Leaf [C]				Frame Leaf	Door Leaf	Box	Case	Lbs.	[Kg]
Inches	[mm]	Inches	[mm]	Inches	[mm]	Inches	[mm]	Inches	[mm]	Lbs.	Lbs.	Each	Each
4-1/2	[114]	2-1/16	[52.4]	2-9/16	[65.1]	9/16	[14.3]	.134	[3.4]	4-12-24 x 1/2	3-1/4-20 x 2	3	30
												37	[17]