

CAPACITY NOTE

KUBI7 K7120



PREMISE

Before choosing the hinges for your door leaf you need to consider all the aspects of the installation and make sure that the performance of the product is adequate.

In particular, it is necessary to know the width of the door leaf and the center distance to be install the hinges.

The hinge center distance is the distance between the center of the highest hinge and the center of the lowest hinge on the door leaf (regardless other installed hinges) and it influences the hinge capacity so that the lower its value is, the lower the hinge capacity is. At the same time the hinge capacity is inversely proportional to the **width** of the door, it follows that the wider the door is, the lower the capacity of the hinges is.

By increasing the center distance, it is possible to reduce the stress on the hinges, improving their performance.

CAPACITY TABLE

The following table allows you to view the correlation between the center distance, width and weight (max possible) in a door leaf equipped with 2 **KUBI7 K7120** hinges

K7120 - 100 Kg - N° 2 hinges												
Hinge spacing (mm)	2000	120	120	120	120	120	120	120	120	120	115	111
	1950	120	120	120	120	120	120	120	120	117	113	108
	1900	120	120	120	120	120	120	120	119	114	110	105
	1850	120	120	120	120	120	120	120	116	111	107	103
	1800	120	120	120	120	120	120	118	113	108	104	100
	1750	120	120	120	120	120	120	115	110	105	101	97
	1700	120	120	120	120	120	117	112	107	102	98	94
	1650	120	120	120	120	119	113	108	104	99	95	92
	1600	120	120	120	120	115	110	105	100	96	92	89
	1550	120	120	120	118	112	107	102	97	93	89	86
	1500	120	120	120	114	108	103	98	94	90	87	83
	1450	120	120	116	110	105	100	95	91	87	84	80
1540	120											
	926	700	800	900	950	1000	1050	1100	1150	1200	1250	1300
Door width (mm)												

- Test door: center distance 1540 mm - width 926 mm - opening angle 0°-90°.

- NB: the door weight must also include the hardware and any applied decorations.

The weight is meant to be a smooth door leaf, without windows or glass inserts that remove the gravity center of the door weight from the geometric center of the door



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CAPACITY TABLE

The following table allows you to view the correlation between the center distance, width and weight (max possible) in a door leaf equipped with 3 **KUBI7 K7120** hinges

Hinge spacing (mm)	K7120 - 140 Kg - N° 3 hinges												
	2000		140	140	140	140	140	139	132	127	121	117	112
	1950		140	140	140	140	140	135	129	123	118	114	109
	1900		140	140	140	140	138	132	126	120	115	111	106
	1850		140	140	140	140	135	128	122	117	112	108	104
	1800		140	140	140	138	131	125	119	114	109	105	101
	1750		140	140	140	134	127	121	116	111	106	102	98
	1700		140	140	138	130	124	118	113	108	103	99	95
	1650		140	140	134	126	120	114	109	104	100	96	92
	1600		140	140	129	123	117	111	106	101	97	93	90
	1550		140	140	125	119	113	108	103	98	94	90	87
	1500		140	137	121	115	109	104	99	95	91	87	84
	1450		140	132	117	111	106	101	96	92	88	84	81
1730	140												
	900	700	800	900	950	1000	1050	1100	1150	1200	1250	1300	
Door width (mm)													

- Test door: center distance 1540 mm - width 926 mm - opening angle 0°-90°.

- NB: the door weight must also include the hardware and any applied decorations.

The weight is meant to be a smooth door leaf, without windows or glass inserts that remove the gravity center of the door weight from the geometric center of the door



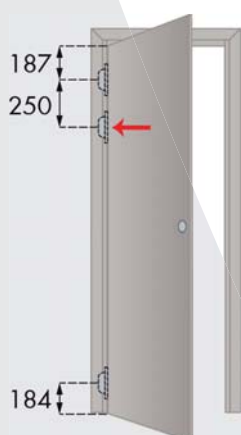
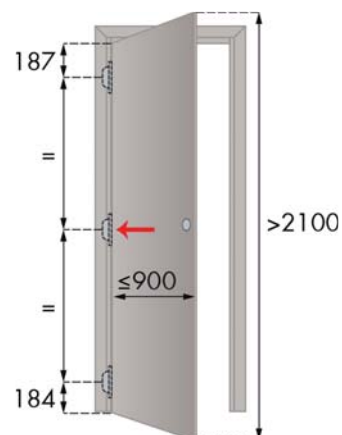
INSTALLATION OPTIONS

Suggestions for non-standard installations are provided below, but we inform you that the application of the concealed hinges with other devices (door closers, bumpers, panic bars, sash seals, etc.) is not considered in the capacity tables and must be tested by the customer.

ADDITION OF A THIRD CENTRAL HINGE

In the following cases, it is recommended to add a third hinge, to be installed in the center to help preserve the flatness of the door leaf:

- doors higher than 2100 mm;
- doors to be installed in a damp environment;
- thin or light material doors;
- dividing doors of spaces with very different temperatures.



ADDITION OF A THIRD TOP HINGE

If there is a door closer, 3 hinges are required. The third hinge acts as a support for the lower one, to be installed 250 mm away from the uppermost hinge.

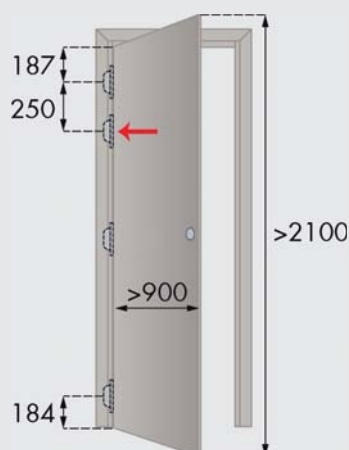
NB: the recommended adjustment of the door closer is the minimum requirement to make it work. Too much pressure from the door closer could compromise the work of the hinges. Furthermore, if the installed door closer has the "opening limit*" function, it must be deactivated to ensure the major durability of the hinge.

ADDITION OF A THIRD LOWER HINGE

When a doorstop or sash seals are applied, 3 hinges are required. The third hinge acts as a support for the lower one, to be installed 250 mm away from the lower positioned hinge.

NB: the doorstop must be mounted as far away as possible from the rotation axis of the door. We recommend an installation at a distance of approximately 75% of the door width in the direction of the lock.

NB: the recommended adjustment of the guillotine seal is a minimum requirement to make it work. Excessive pressure of the guillotine seal on the floor could compromise the work of the hinges.



ADDITION OF A FOURTH TOP HINGE

For doors with a height greater than 2100 mm and a width greater than 900 mm, or for installations in highly crowded public places (for example schools, hospitals or airports), the installation of 4 hinges is recommended. The fourth hinge acts as a support for the upper one, to be installed 250 mm away from the uppermost hinge.

