

CAPACITY NOTE

KUBI7 K7080



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 K7080** hinges

K7080 - 80 Kg - N° 2 hinges													
Hinge spacing (mm)	2000	80	80	80	80	80	80	80	80	80	80	77	74
	1950	80	80	80	80	80	80	80	80	80	78	75	72
	1900	80	80	80	80	80	80	80	79	76	73	70	
	1850	80	80	80	80	80	80	80	77	74	71	68	
	1800	80	80	80	80	80	80	79	75	72	69	67	
	1750	80	80	80	80	80	80	77	73	70	67	65	
	1700	80	80	80	80	80	78	74	71	68	65	63	
	1650	80	80	80	80	79	76	72	69	66	63	61	
	1600	80	80	80	80	77	73	70	67	64	62	59	
	1550	80	80	80	78	75	71	68	65	62	60	57	
	1500	80	80	80	76	72	69	66	63	60	58	56	
	1450	80	80	78	73	70	66	63	61	58	56	54	
1540	80												
	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 K7080** hinges

Hinge spacing (mm)	K7080 - 100 Kg - N° 3 hinges												
	2000		100	100	100	100	100	99	95	90	87	83	80
	1950		100	100	100	100	100	97	92	88	85	81	78
	1900		100	100	100	100	99	94	90	86	82	79	76
	1850		100	100	100	100	96	92	87	84	80	77	74
	1800		100	100	100	99	94	89	85	81	78	75	72
	1750		100	100	100	96	91	87	83	79	76	73	70
	1700		100	100	98	93	88	84	80	77	74	71	68
	1650		100	100	95	90	86	82	78	75	72	69	66
	1600		100	100	92	88	83	79	76	72	69	67	64
	1550		100	100	90	85	81	77	73	70	67	65	62
	1500		100	98	87	82	78	74	71	68	65	62	60
	1450		100	94	84	79	75	72	69	66	63	60	58
1730	100												
	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



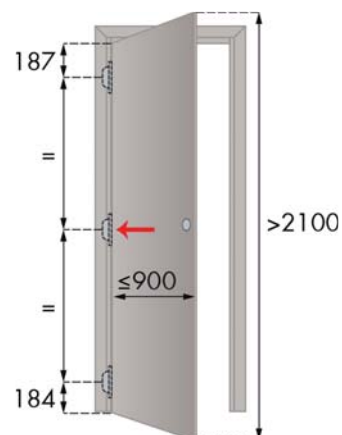
INSTALLATION OPTIONS

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:

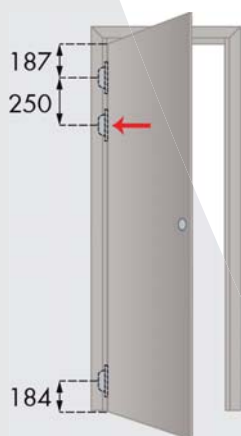
- doors higher than 2100 mm;
- doors to be installed in a damp environment;
- thin or light material doors;
- dividing doors of spaces with very different temperatures.



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.

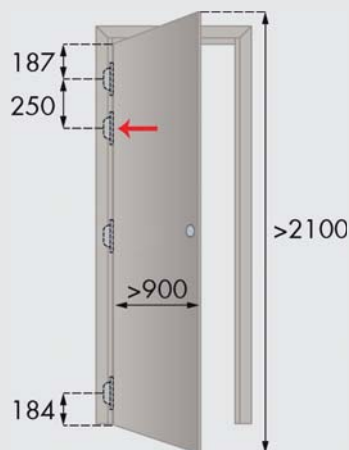


ADDITION OF A THIRD LOWER HINGE

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.

