

LOAD CAPACITY TABLE

Hinges for doors up to 250 Kg

The loading capacity of the hinges is a data that cannot be determined in an absolute manner, since not all the elements that constitute doors and windows can always be determined in advance.

The main variables are:

- 1) dimensions of the shutter;
- 2) weight of the shutter;
- 3) number of hinges;
- 4) position of the hinges;
- 5) type and quality of the frame material. For example: the presence of knots in wood may jeopardize the grip of the hinge or in the case of PVC frames the presence and the shape of the internal metal reinforcement may affect the loading capacity of the hinges;
- 6) accuracy, precision and experience in the assembly. For example: installing the male more than 6 mm away from the frame or a thread not completely screwed, can compromise the proper functioning of the hinges;
- 7) position and frequency of use of the window/door.

The following table has been defined taking into consideration:

1) the information provided by the European Norm UNI EN 1935:2002.

2) the tests performed on the hinges.

In particular, norm 1935:2002 suggests to load a hinge with 1/3 of the declared weight in the CE certificate or declaration of performance, thus recommends the use of three hinges per shutter, praxis OTLAV agrees with, since it makes the door/window more stable.

The regulations 1935:2002 also determines that in the case of doors or windows of remarkable width, it is necessary to apply a "coefficient of increase of the shutter mass", which determines the decrease of the loading capacity of the hinges.

NB: with doors of **166 kg** and hinges capacity **250 kg**, it is possible to use a hinge less than reported in this table.

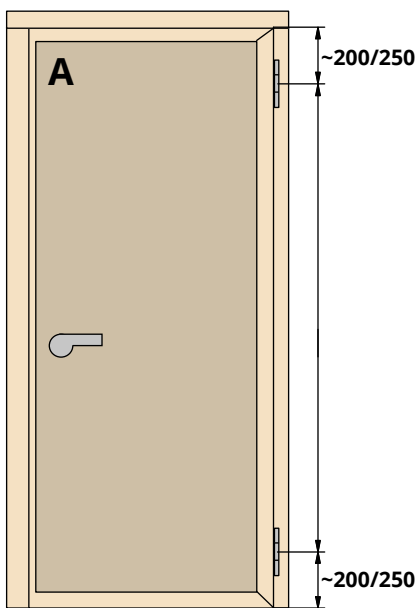
Hinges for doors up to 250 Kg

Door height mm.	2700	4	4	4	5	5	5	5	5	Ctd	Ctd
	2400	4	4	4	5	5	5	5	5	Ctd	Ctd
	2300	3	3	4	4	5	5	5	Ctd	Ctd	Ctd
	2200	3	3	3	4	4	4	Ctd	Ctd	Ctd	Ctd
	2100	3	3	3	3	4	Ctd	Ctd	Ctd	Ctd	Ctd
	2000	3	3	3	3	Ctd	Ctd	Ctd	Ctd	Ctd	Ctd
	1900	3	3	3	3	Ctd	Ctd	Ctd	Ctd	Ctd	Ctd
	1800	3	3	3	3	Ctd	Ctd	Ctd	Ctd	Ctd	Ctd
	1200	3	3	3	3	Ctd	Ctd	Ctd	Ctd	Ctd	Ctd
	800	3	3	3	3	Ctd	Ctd	Ctd	Ctd	Ctd	Ctd
Door width mm.		600	800	900	1000	1050	1100	1150	1200	1250	1300

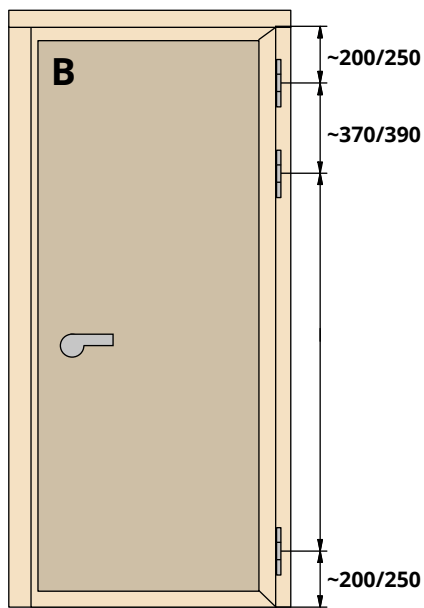
X Suggested number of hinges

Ctd Non-standard door sizes, please contact the technical department

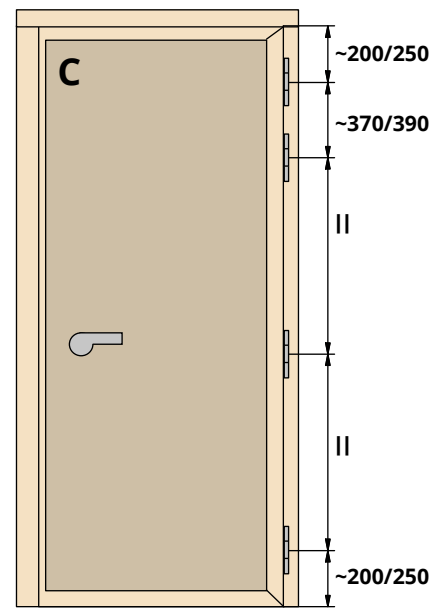
Positioning of the hinges



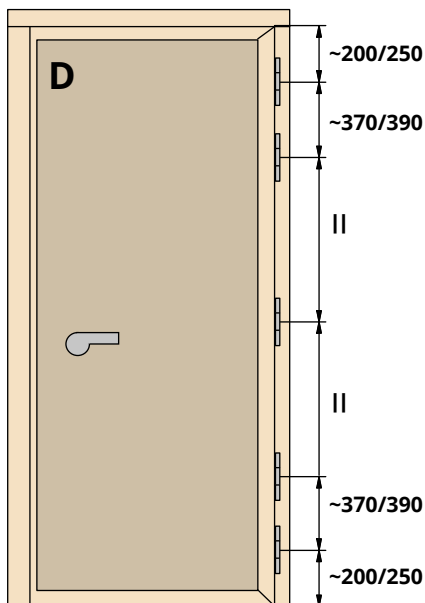
2 hinges



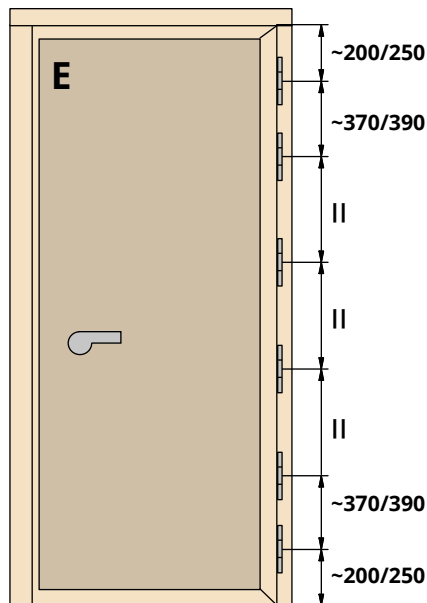
3 hinges



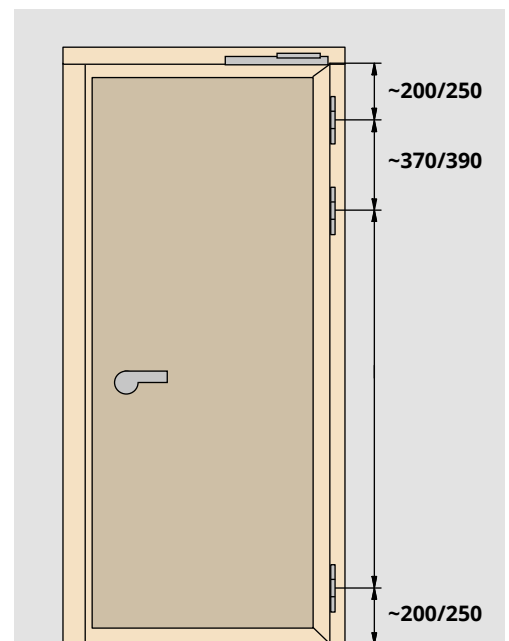
4 hinges



5 hinges



6 hinges



Door-closer

Referring to the load capacity table, add a hinge, respecting the diagrams reported hereby.

THE PRODUCT IS GUARANTEED ONLY IF USED ACCORDING TO THE INSTRUCTIONS GIVEN BY THE MANUFACTURER.

Codes table

Table of OTLAV hinges codes divided by class of weight.

Hinge classes									
0 - 10 kg	1 - 20 kg	2 - 40 kg	3 - 60 kg	4 - 80 kg	5 - 100 kg	6 - 120 Kg	7- 160 kg	200 kg	250 kg
53009	060013	030013	030014	320018	495016 Exacta	473016	495018	475018	476018
530011	210013	050013	030016	320020	482016	494020	473018		
53509	300013	055013	031016	483016		495020			
535011	300014	057013	045018	486016		495016 Ursus			
60009	300016	060014	055014	495013					
60509	NT 021	070013	055016	495014					
605011	P09013	075013	057014	495014					
61009		085013	057016	750018					
610011		095014	058014						
		100013,5	085014						
		101013,5	100015						
		102015	101015						
		103015	103015						
		190013	104015						
		190014	180016						
		409014	190014						
		P05013	190016						
		P38013	221015						
		P39013	320015						
		P50015	320016						
		P88013	335015						
			340015						
			341015						
			343015						
			355013						
			355014						
			355016						
			484016						
			485014						
			486014						
			491014						
			CE 022015						
			CE 047015						
			CE 048015						
			CE 3350150						
			FP 09608						
			TE012015						