

NUMBER OF HINGES PER DOOR

Description

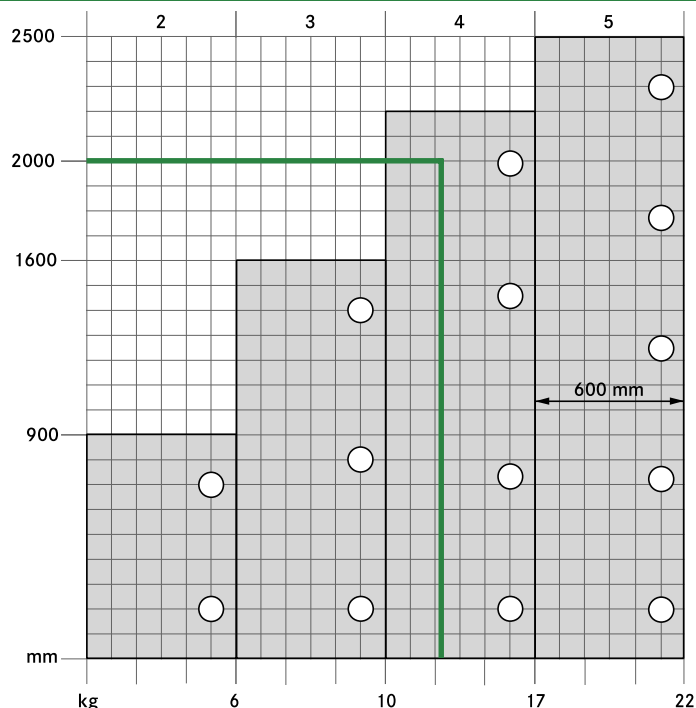
The number of hinges is determined by the door height, door weight, quality of the material and the fixing of the cup and mounting plate.

The load and height data refer to 600 mm standard door widths. In case of doubt, the number of hinges should be determined with a trial fitting.

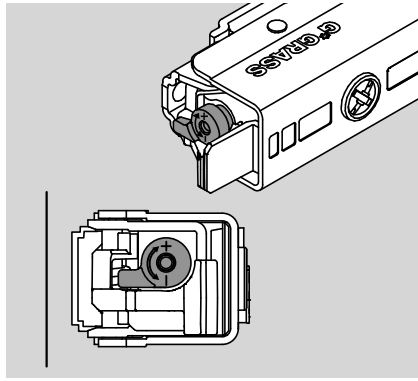
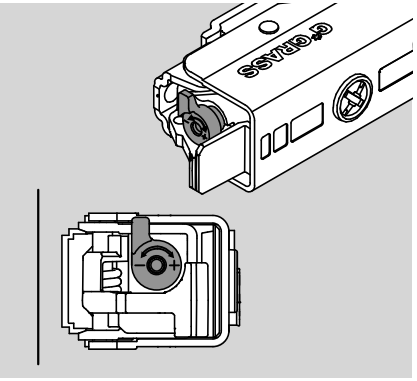
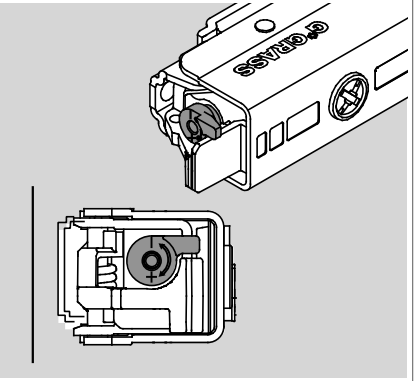
Example:

For doors measuring 2000 x 600 mm and weighing 13 kg we recommend the installation of 4 hinges.

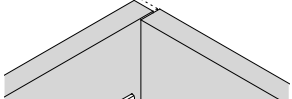
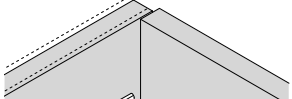
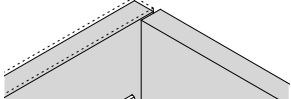
The table refers to hinges with and without integrated damper.



TOOL-FREE DAMPER ADJUSTMENT

Low level	Medium level (factory setting)	High level
		
<p>Adjustment lever points</p> <ul style="list-style-type: none"> towards cabinet wall <p>Suitable for:</p> <ul style="list-style-type: none"> small, light-weight doors 	<p>Adjustment lever points</p> <ul style="list-style-type: none"> downwards when fitted on the left and upwards when fitted on the right <p>Suitable for:</p> <ul style="list-style-type: none"> standard doors 	<p>Adjustment lever points</p> <ul style="list-style-type: none"> into the cabinet <p>Suitable for:</p> <ul style="list-style-type: none"> large, heavy doors
<p>The damping force of each hinge can be set individually. A simple lever adjustment is all that is required to increase or reduce the damping force as required.</p>		

DOOR ADJUSTMENTS (APPLIES TO ALL TIOMOS HINGES)

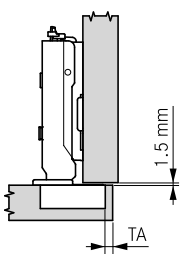
Description	Side adjustment with limit stop +/- 2mm	Convenient depth adjustment via worm gear +3/-2 mm	Height adjustment with mounting plate +/- 2 mm
<p>The height adjustment option depends on the type of mounting plate. All adjustments can be carried out independently of each other.</p> <p>When using a -2 mounting plate height, side adjustment is restricted.</p>			

DOOR REVEAL AND MINIMUM REVEAL

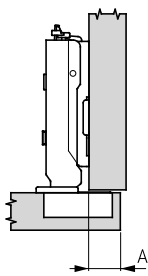
Description	Full overlay / overlay door	Half overlay door	Inset door
<p>The reveal is the distance between two doors or between the door and the cabinet side wall.</p> <p>The minimum reveal (F) is the clearance required between two doors or between door and side wall so that the door can open without hindrance.</p>			

Minimum reveal table								Achievable reveal with inset door									
<p>The width of reveal required depends on the thickness of the door.</p> <p>Example:</p> <p>For a 19 mm thick door and a cup distance of 6 mm, the minimum reveal required is 0.9 mm.</p> <p>Important</p> <p>Reveals were calculated for doors with a radius of 1 mm!</p> <p>We recommend a trial fitting.</p>	Door thickness		Cup distance						<p>The table shows the achievable reveal width for inset doors, depending on the cup distance and mounting plate height.</p> <p>Example:</p> <p>For a cup distance of 6 mm and a mounting plate height of 3 mm the reveal is 1 mm. This is also called a negative overlay.</p>	Door reveal		Cup distance					
			3	4	5	6	7					3	4	5	6	7	
		24	2.4	2.1	2.1	2.1	2.0				0.0		0		2	3	
		22	1.6	1.6	1.6	1.5	1.5				0.5					3.5	
		21	1.4	1.3	1.3	1.3	1.3				1.0	0		2	3		
		20	1.1	1.1	1.1	1.5	1.1				1.5				3.5		
		19	0.9	0.9	0.9	0.9	0.9				2.0		2	3			
		18	0.7	0.7	0.7	0.7	0.7				3.0	2	3				
		17	0.6	0.6	0.6	0.6	0.6				4.0	3					
		16	0.6	0.6	0.6	0.6	0.6										
		Minimum reveal (F)									Mounting plate height						

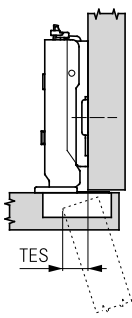
MINIMUM GAP

Description	Example:								
<p>The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can open without hindrance.</p> <p>The factory setting of the gap is 1.5 mm.</p> 	<p>For a 17 mm thick door and a cup distance of 6 mm, the minimum gap is 1.0 mm.</p>	Door thickness		Cup distance					
				3	4	5	6	7	
			24	1.0	1.0	1.0	1.2	2.1	
			22	1.0	1.0	1.0	1.0	1.5	
			21	1.0	1.0	1.0	1.0	1.2	
			20	1.0	1.0	1.0	1.0	1.0	
			19	1.0	1.0	1.0	1.0	1.0	
			18	1.0	1.0	1.0	1.0	1.0	
			17	1.0	1.0	1.0	1.0	1.0	
			16	1.0	1.0	1.0	1.0	1.0	
			Minimum gap						

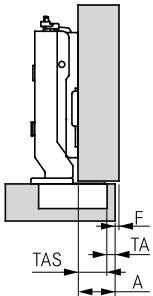
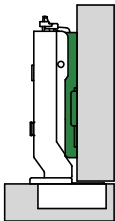
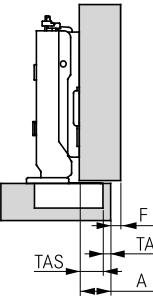
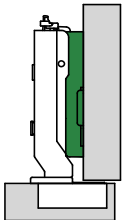
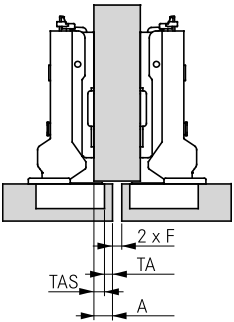
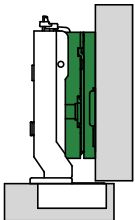
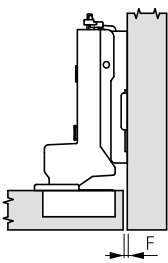
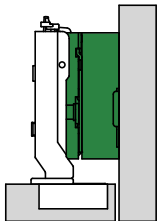
DOOR OVERLAY

Description	Example:									
The door overlay (A) is that part of the side wall or frame which is covered by the door.										
		Door overlay	Cup distance							
			3	4	5	6	7			
			19.0				0			
			18.0			0				
			17.0		0		2			
			16.5							
			16.0	0		2	3			
			15.5				3.5			
			15.0	0	2	3				
			14.5			3.5				
			14.0	2	3					
			13.5		3.5					
			13.0	2	3					
			12.5		3.5					
			12.0	3						
			11.5	3.5						
		Mounting plate height								

DOOR PROTRUSION

Description	
<p>Door protrusion (TES) occurs when the door is opened and varies depending on the type of hinge and method of application.</p> <p>It is shown on each catalogue page and refers to the factory setting with the respective mounting plate shown. It can be altered by using a different mounting plate height and by changing the side adjustment.</p>	

OPTIONS FOR CHANGING THE DOOR OVERLAY

By selecting the cranking	By using a mounting plate with a different height
<p>Full overlay (cranking 0)</p> <p>The cup overlay (TAS/ factory setting) plus cup distance (TA) is the door overlay (A).</p> <p>The dimensions are shown in a table on the respective catalogue page.</p> 	<p>Full overlay</p> <p>Use a hinge with cranking 0 and mounting plate height 0.</p> 
<p>Overlay (cranking 3)</p> <p>The cup overlay (TAS/ factory setting) plus cup distance (TA) is the door overlay (A).</p> <p>The dimensions are shown in a table on the respective catalogue page.</p> 	<p>overlay</p> <p>Use a hinge with cranking 0 and mounting plate height 3.</p> 
<p>Half overlay (cranking 9.5)</p> <p>The cup overlay (TAS/ factory setting) plus cup distance (TA) is the door overlay (A).</p> <p>The dimensions are shown in a table on the respective catalogue page.</p> 	<p>Half overlay</p> <p>Use a hinge with cranking 0 and mounting plate height 9.5.</p> 
<p>Inset (cranking 19)</p> <p>There is no door overlay.</p> <p>The minimum reveal (F) between the cabinet side and door depends on the mounting plate height and the cup distance.</p> <p>The dimensions are shown in a table on the respective catalogue page.</p> 	<p>Inset</p> <p>Use a hinge with cranking 0 and mounting plate height 21.</p> 

Tiomos

Nexis

Special hinges

Single-joint hinges

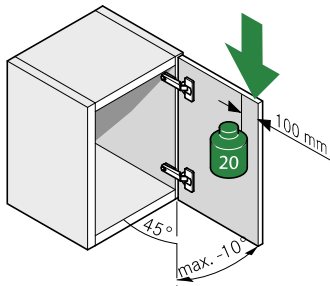
Cabinet making accessories

TEST CRITERIA FOR HINGES

Functional test

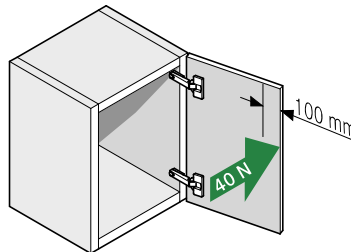
Static load – vertical

Additional load: 20 kg
Opening angle: max. -10°
Number: 10



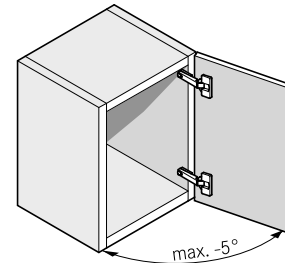
Static load – horizontal

Force: 40 N
Number: 10



Endurance test

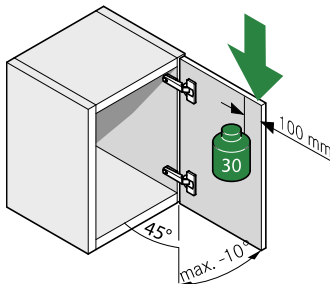
Opening angle: max. -5°
Open and close movements: 100,000



Overload testing

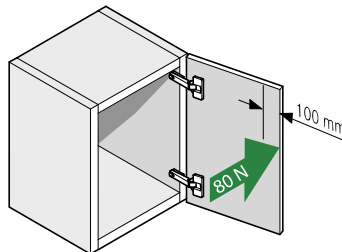
Vertical

Additional load: 30 kg
Opening angle: max. -10°
Number: 10



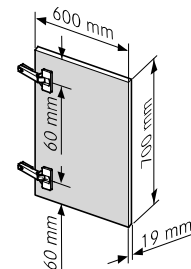
Horizontal

Force: 80 N
Number: 10



Test door

Weight approx. 5.2 kg



Salt spray and humidity test

Based on DIN ISO 9227 and DIN 6270-2

