

UNE standards

The product has been tested in accordance with the procedures described in the building hardware standards:

» **UNE-EN 1935 · AC: 2004**

Single-axis hinges. Requirements and test methods.

» **UNE-EN 1670: 2007 · AC: 2008**

Corrosion resistance. Requirements and test methods.

The standard has been developed by the **Technical Committee for Standardisation CTN 85: Closure of frames in building and related products**. Tech. secretary: ASEFAVE, Asociación Española de Fabricantes de Fachadas Ligeras y Ventanas.



Hardware classification

The values indicated below have been obtained in the **STAC Test Laboratory** in accordance with the procedures described in the European standard UNE-EN 1935 · AC: 2004, « Building hardware. Single-axis hinges. Requirements and test methods. »

DIGIT	1	2	3	4	5	6	7	8
GRADE	4	7	5	0	1	4	0	12

digit 1	Category of use	Grado 4: severe duty. *
digit 2	Durability	Grado 4: 200.000 ciclos.
digit 3	Test door mass	Grade 5: 100 kg.
digit 4	Fire resistance	Grade 0: not suitable for fire/smoke resistant door assemblies.
digit 5	Safety	Grade 1: mild resistance.
digit 6	Corrosion resistance	Grade 4: 240 hours, very high resistance.
digit 7	Security	Grade 0: not suitable for use on burglar-resistant door assemblies.
digit 8	Hinge grade	Grade 12: severe duty category severo, 200.000 cycles, 100 kg.

* Severe duty: hinges for doors that are subject to frequent violent use. The 13 and 14 grade hinges offer increased resistance to potentially persistent violent attacks.



References

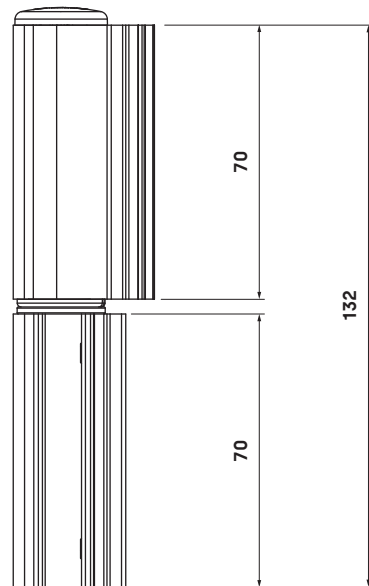
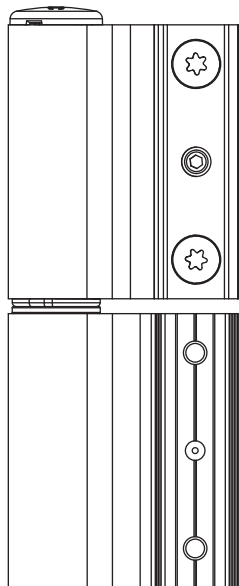
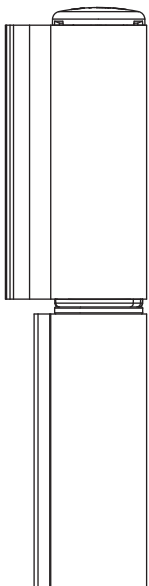
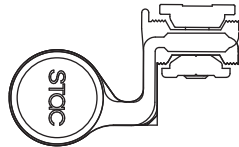
Referencia	Descripción	Horizontal adjustment	Height adjustment		
A011 <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>D</td></tr><tr><td>I</td></tr></table> **	D	I	TAURUS hinge with steel counter plates	±1 millimeter	STC-MC-0011
D					
I					
A011X **	Disassembled TAURUS hinge with steel counter plates				
STC-MC-0011	Vertical adjustment kit (±3 millimeters)				

00	Plain finish or unfinished
** 01	White lacquered finish
02	Black lacquered finish

91	Special lacquer finish 1
** 92	Special lacquer finish 2
93	Special lacquer finish 3

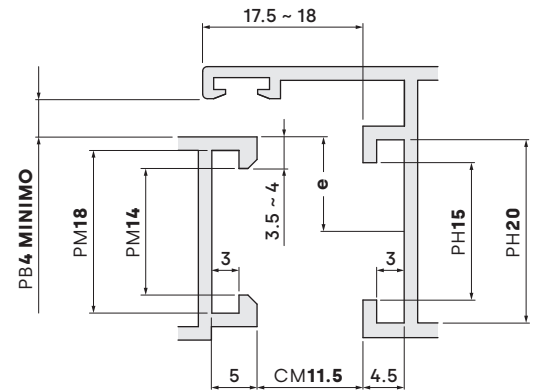
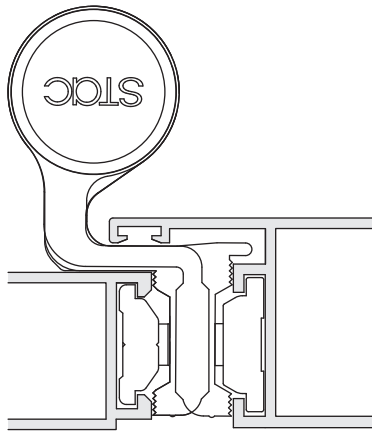
D	The reference is valid for right-hand opens
I	The reference is valid for left-hand opens

Overall dimensions

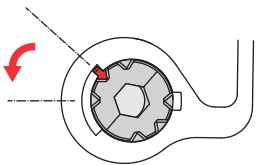
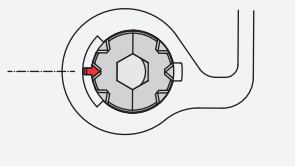


Supported Euro groove profiles

Frame profile (PM)	Sash profile (PH)	Chamber (CM)	Hing pitch (PB)	Axis (e)
14 ~ 18 millimeters	15 ~ 20 millimeters	11.5 millimeters	4 millimeters	10 millimeters

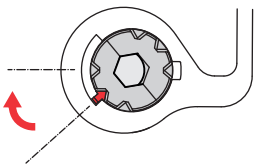


Horizontal adjustment ± 1 mm



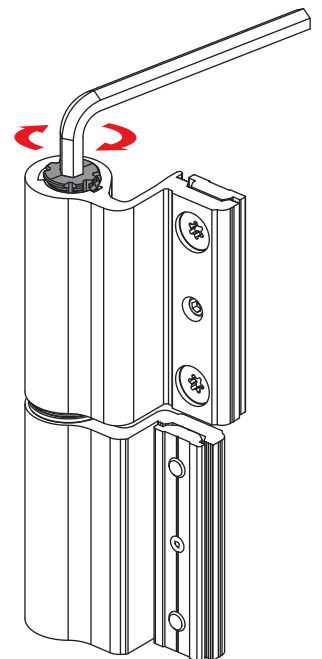
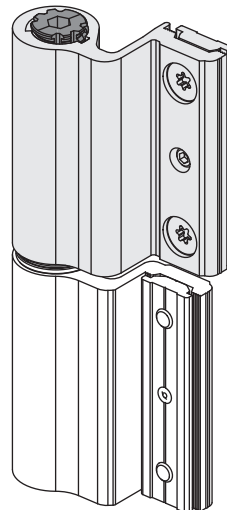
+1 →

Horizontal adjustment +1



-1 ←

Horizontal adjustment -1



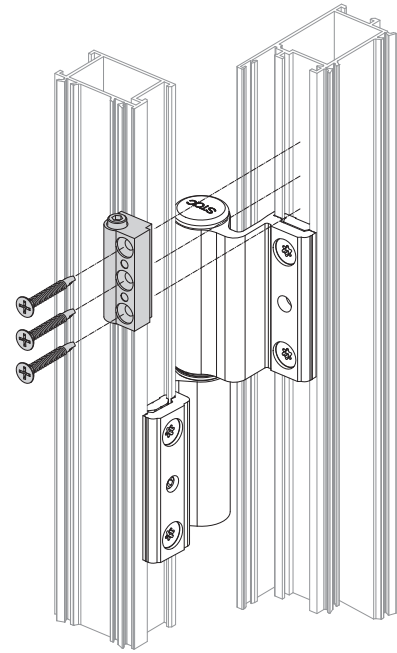
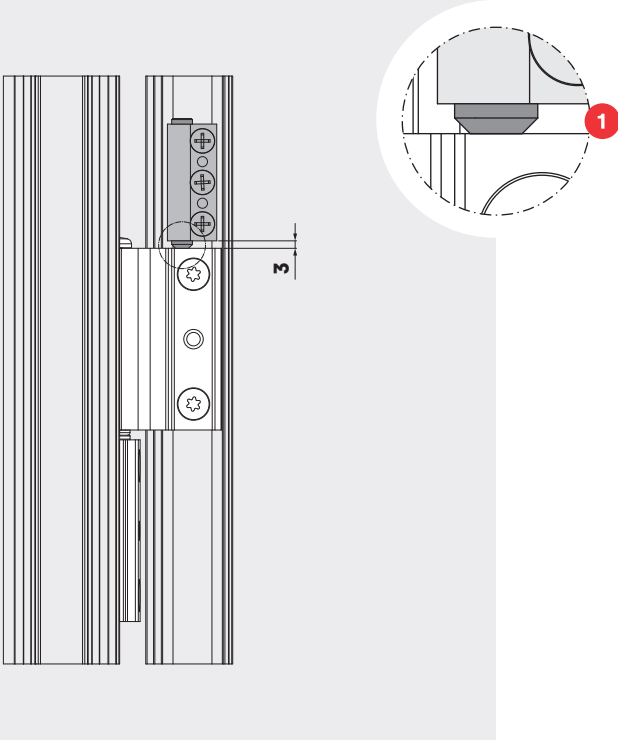
Vertical adjustment ± 3 mm (STC-MC-0011)

Considerations

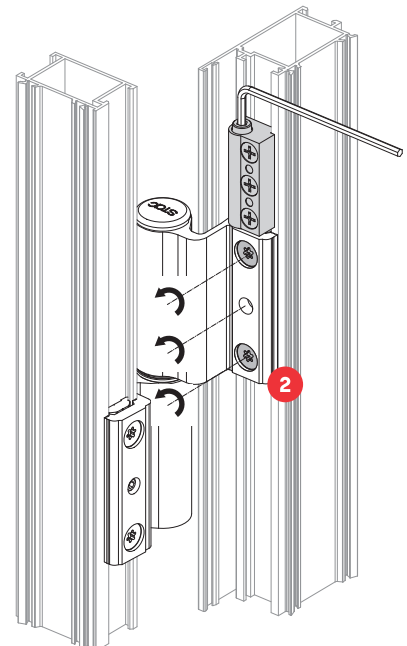
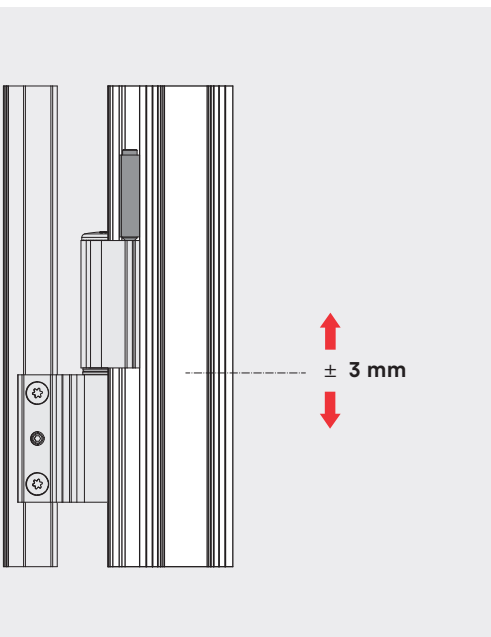
- (1) To obtain the adjustment range of 3 mm install the adjustment device keeping a distance of 3 millimeters from the base of the adjustment device to the contact surface with de hinge sash.
- (2) Before adjusting it is necessary to loosen the fastening screws of the hinges to the profile.



» Installation



» ± 3 mm adjustment with 3 mm allen key



Weight configurations with 2 hinges

A011	D	**
	I	

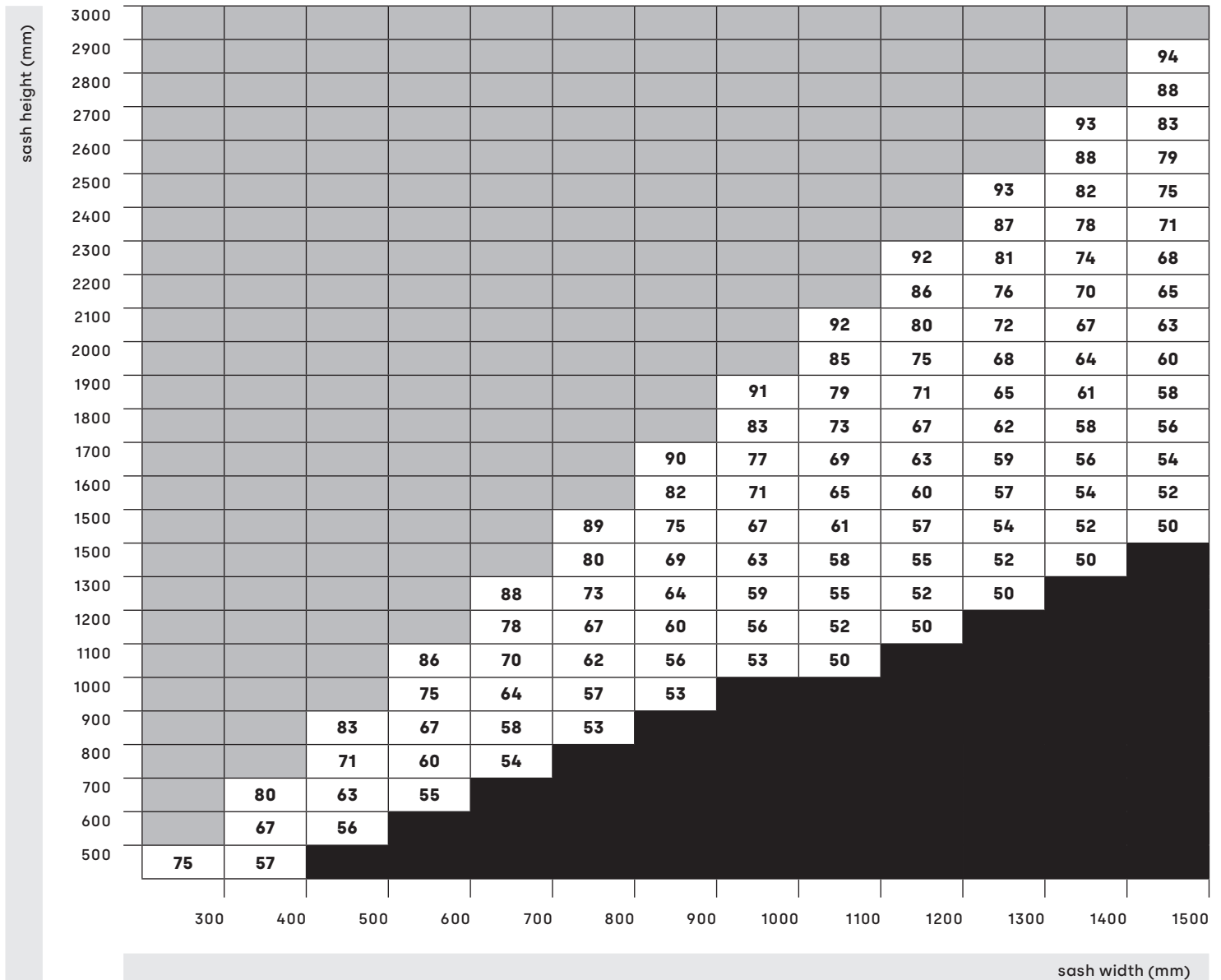
Maximum weight The established limit for hinges is **100 kg**.

Considerations The UNE-EN 1935 standards sets criteria for use depending on the type of building: residential or public buildings.

- In public buildings the maximum weight per sash is reduced by 20 kg.
- In public buildings with door closer without damped restrictor the maximum weight per sash is reduced by 30 kg.

Use and installation The hinge must be installed according to the assembly instructions described in **annex 1**.

From 1800 mm sash height or 1200 mm sash width, the use of the third hinge is mandatory to avoid sagging and to ensure correct functionality. From 2000 mm sash height, the use of the fourth hinge is compulsory for sealing reasons (**annex 2**).



Configuration with a maximum weight of 100 kg



Configuration with weight limitation



Configuration not realisable

Weight configurations with 3 hinges

A011	D	**
	I	

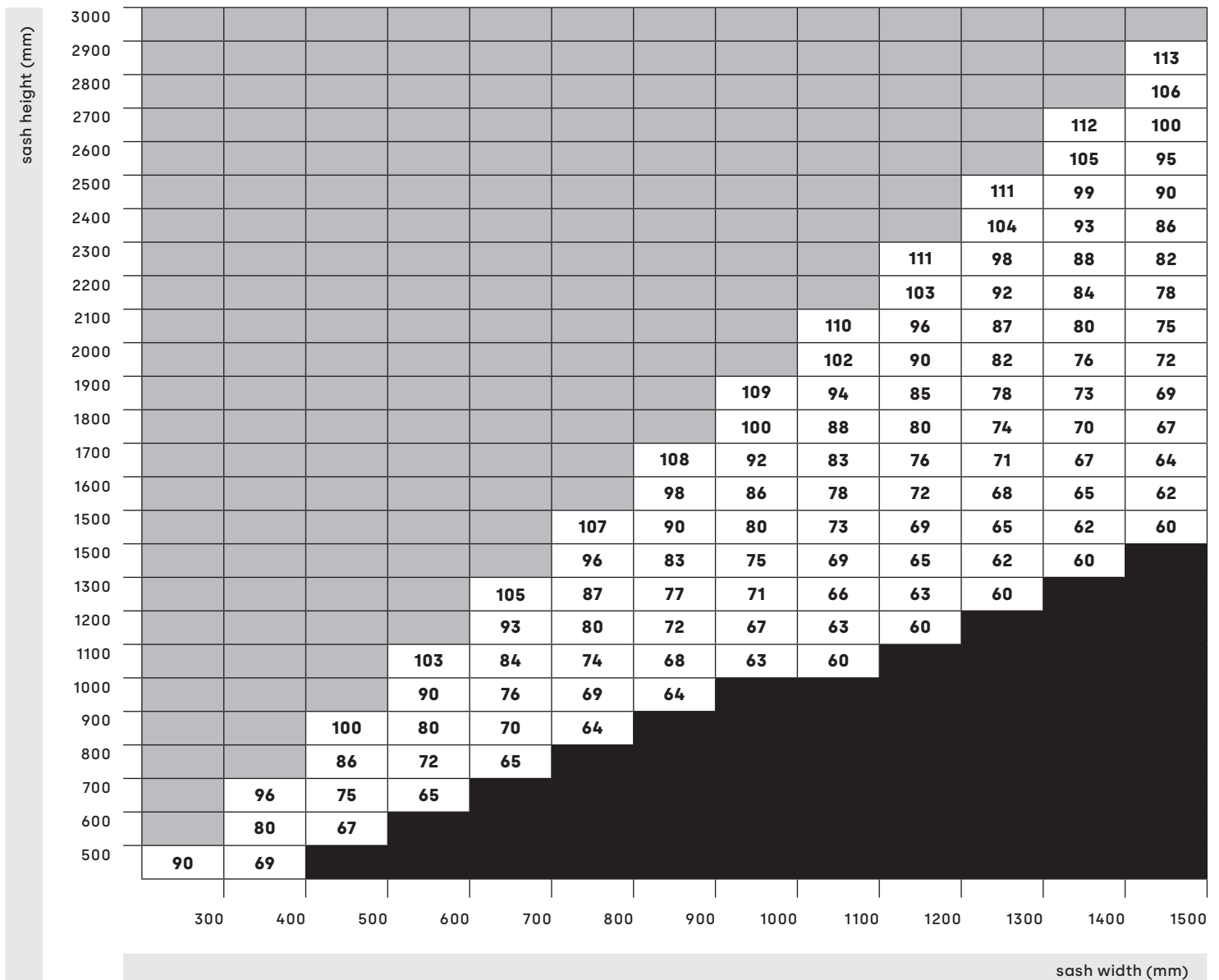
Maximum weight The established limit for hinges is **120 kg**.

Considerations The UNE-EN 1935 standards sets criteria for use depending on the type of building: residential or public buildings.

- In public buildings the maximum weight per sash is reduced by 20 kg.
- In public buildings with door closer without damped restrictor the maximum weight per sash is reduced by 30 kg.

Use and installation The hinge must be installed according to the assembly instructions described in **annex 1**.

From 1800 mm sash height or 1200 mm sash width, the use of the third hinge is mandatory to avoid sagging and to ensure correct functionality. From 2000 mm sash height, the use of the fourth hinge is compulsory for sealing reasons (**annex 2**).



Configuration with a maximum weight of 120 kg



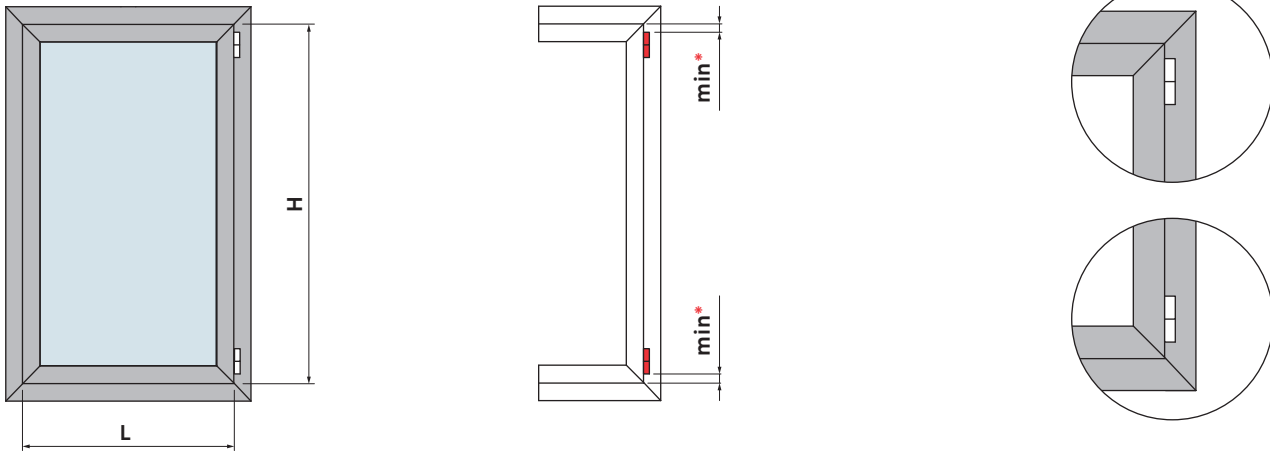
Configuration with weight limitation



Configuration not realisable

Annex 1 Hinge installation

* It is important during installation to avoid interference of the hinges with the corner joint. Both the upper zone hinge and the lower zone hinge should be installed at the minimum distance allowed by the selected sash configuration.



Annex 2 Installation of the third and fourth hinge

3rd hinge The installation of the third hinge **is compulsory from 1800 mm sash height** to avoid sagging. The hinge should be located 150 - 250 mm away from the top hinge. This does not prevent system designers from adding a central hinge for heights of 1200 mm and above for reasons of watertightness.

The installation of the third hinge is recommended **for sash widths of 1200 mm and above in order to ensure the correct functionality of the sash at all times.**

4th hinge The installation of the fourth hinge is recommended **from a sash height of 2000 mm for sealing reasons.**

