UNE standards

The products have been tested in accordance with the procedures described in the building hardware standards:

» UNE-EN 13126-1: 2012

Hardware for windows and door height windows. Requirements and test methods. Part 1: Requirements common to all types of hardware.

» 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 13126-8: 2018: « Building hardware. Hardware for windows and door height windows. Part 8: Requirements and test methods for tilt & turn, tilt-first and turn-only hardware. »

	1	2	3	4
UNE-EN 13126-8: 2018	H3	160	4	1400 x 1550 *

digit 1	Durability	**Grade H3**: 20.000 cycles (+1%).
digit 2	Mass test	160 kg.
digit 3	Corrosion resistance	**Grade 4**: 240 hours, very high corrosion resistance.
digit 4	Test dimensions	SRW = 1400 mm, SRH = 1550 mm (±10 mm).

* Test dimensions 1400 x 1550: applicable only for hardware with a maximum sash mass of ≤ 130 kg . All dimensions are in millimetres, SRW x SRH (SRW = sash rebate width, SRH = sash rebate height), with a tolerance of ±10 mm.

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CLX 160 hinge kit

Reference	Description
T1113 **	CLX ambidextrous hinge kit for active sash
T1114 **	CLX ambidextrous hinge kit for passive sash

**	**00**	Plain finish or unfinished
	91	Special lacquer finish 1

**	**01**	White lacquered finish
	92	Special lacquer finish 2

**	**02**	Black lacquered finish
	93	Special lacquer finish 3

CLX 160 hinge tilt & turn kits

Reference	Description	Locking to the inverter	Locking to the frame	Tilt-before-turn
T1133 **	CLX 160 tilt & turn kit	✔	-	-
T1118 **	CLX 160 tilt & turn kit with LYRA cremone	✔	-	-
T1118 ** **S**	CLX 160 tilt & turn kit with SIRIUS cremone	✔	-	-
T1139 **	CLX 160 tilt & turn kit	-	✔	-
T1132 ** **S**	CLX 160 tilt & turn kit with SIRIUS cremone	-	✔	-
TS1139 **	CLX 160 tilt & turn kit with EVO SECURITY hardware	-	✔	-
T1123 **	CLX 160 tilt & turn kit	-	-	✔

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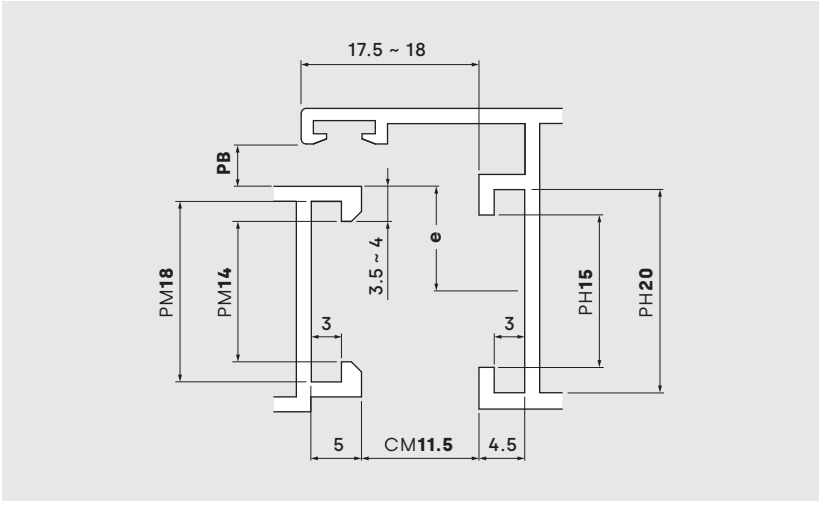
Restrictions on use according to friction stay

	Reference	Supplementary	L min-max	H min-max	X	max	B		L min	mv	B
	T110301	-	570 ~ 1200	500 ~ 2800	135	160 kg	L - 495	-	618	493	L - 546
*	**T110304**	-	570 ~ 1200	500 ~ 2800	135	160 kg	L - 495	-	618	493	L - 546
	T110301	**A130301**	910 ~ 1500	500 ~ 2800	135	160 kg	L - 595	-	1000	493	L - 646
*	**T110304**	**A130301**	1200 ~ 1500	500 ~ 2800	135	160 kg	L - 965	325	-	-	-
									micro-ventilation		

The dimensions are expressed in millimetres.
Friction stays valid for tilt & turn windows with tilt-before-turn operation. *
(L = sash length, H = sash height, X = maximum opening, B = length of rod).

Supported Euro groove profiles

Frame profile (PM)	**Sash profile** (PH)	**Chamber** (CM)	**Axis** (e)	**Hinge pitch** (PB)
14 ~ 18 millimetres	15 ~ 20 millimetres	11.5 millimetres	10 millimetres	3.5 millimetres



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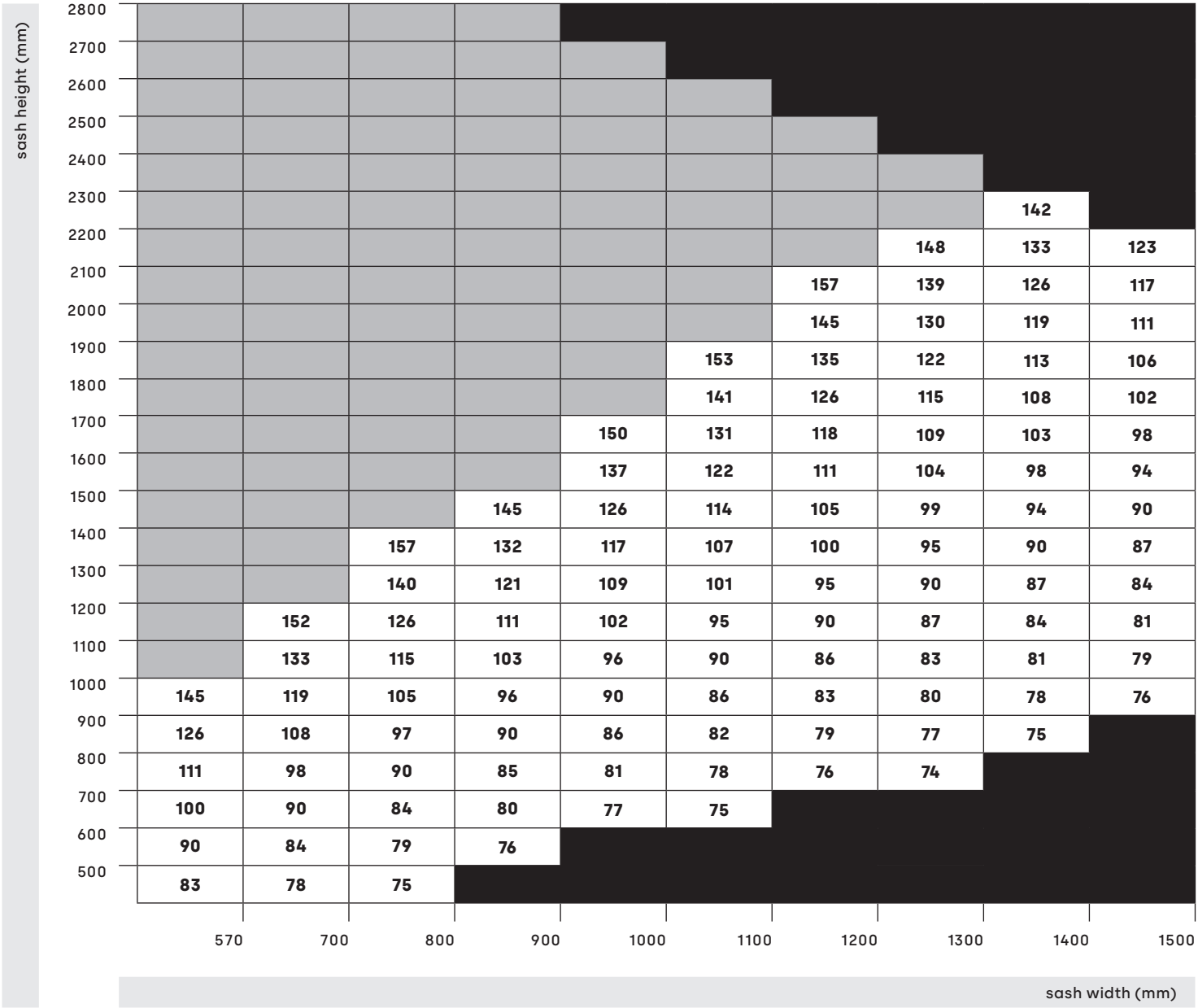
Weight configurations

Maximum weight — The limit for hinges is set at **160 kg**.

Considerations — CLX 160 hinges must be installed in accordance with the information given in the table below and following the mandatory safety measures described in **Annex 1**.

CLX 160 hinges must be used with CLX friction stays (T110301 | T110304). Please note that both the location of the window and the height of the cremone may vary from the recommended configurations. From a height or width of 1000 mm and a weight of 80 kg, it is recommended that a balcony door profile be used.



								142	
							148	133	123
						157	139	126	117
						145	130	119	111
					153	135	122	113	106
					141	126	115	108	102
				150	131	118	109	103	98
				137	122	111	104	98	94
			145	126	114	105	99	94	90
		157	132	117	107	100	95	90	87
		140	121	109	101	95	90	87	84
	152	126	111	102	95	90	87	84	81
	133	115	103	96	90	86	83	81	79
145	119	105	96	90	86	83	80	78	76
126	108	97	90	86	82	79	77	75	
111	98	90	85	81	78	76	74		
100	90	84	80	77	75				
90	84	79	76						
83	78	75							

Configuration with a maximum weight of 160 kg

00 Configuration with weight limitation

Configuration not realisable

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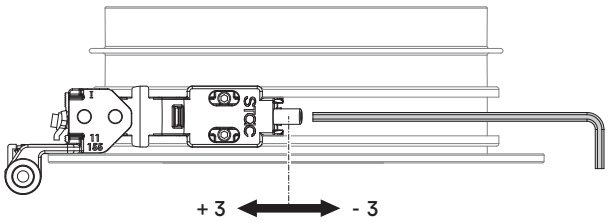
Adjustments

Sash	Tightening adjustment	Slipping adjustment	Lateral adjustment	Height adjustment
Upper passive	-	±3 mm ⬡ *allen 3*	-	-
Upper active	±1 mm ⬡ *allen 4*	±3 mm ⬡ *allen 4*	-	-
Lower passive	+0.3 mm *bushing*	-	±1.3 mm ⬡ *allen 2.5*	+3, -0.5 mm ⬡ *allen 5*
Lower active	+0.3 mm *bushing*	-	±1.3 mm ⬡ *allen 2.5*	+3, -0.5 mm ⬡ *allen 5*

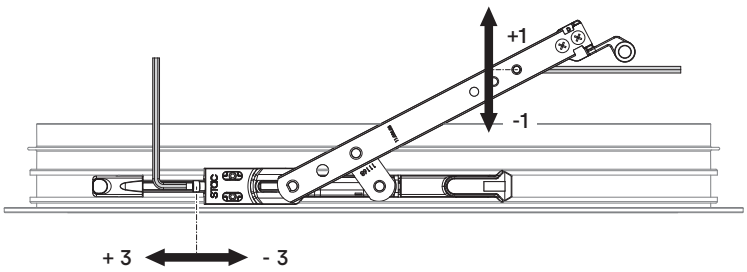
» *Adjustments on*

passive upper sash hinge



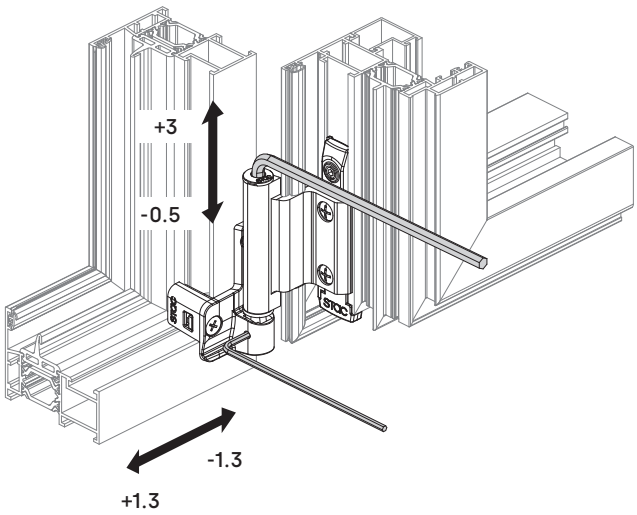
» *Adjustments on*

active upper sash hinge



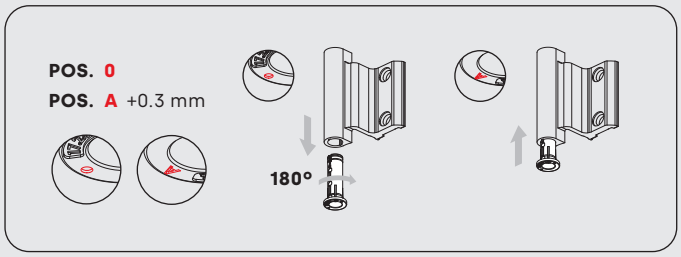
» *Adjustments on*

active & passive lower sash hinge



Tightening adjustment

By default, the hinges are supplied with pressure setting 0.



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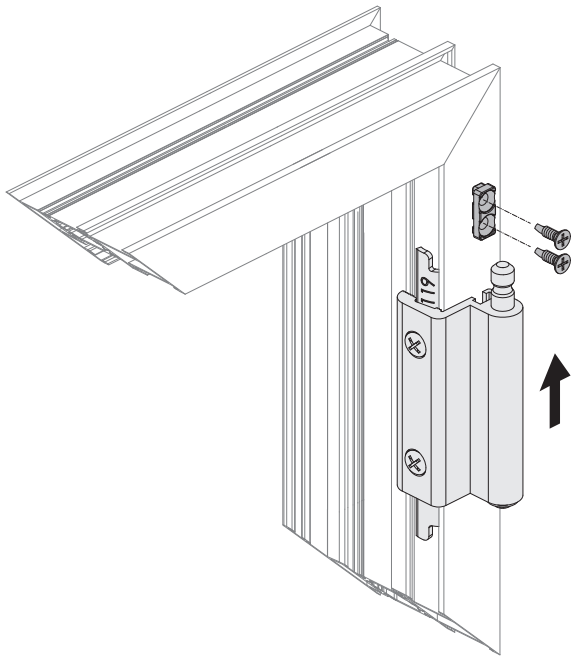
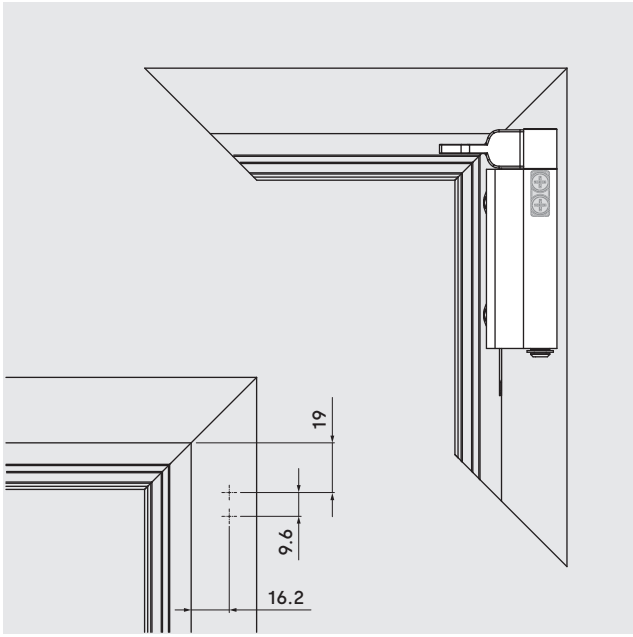
Annex 1 Security measures

For a correct installation of the CLX 160 hinges, the installation of the following elements included in the part numbers **is mandatory**:

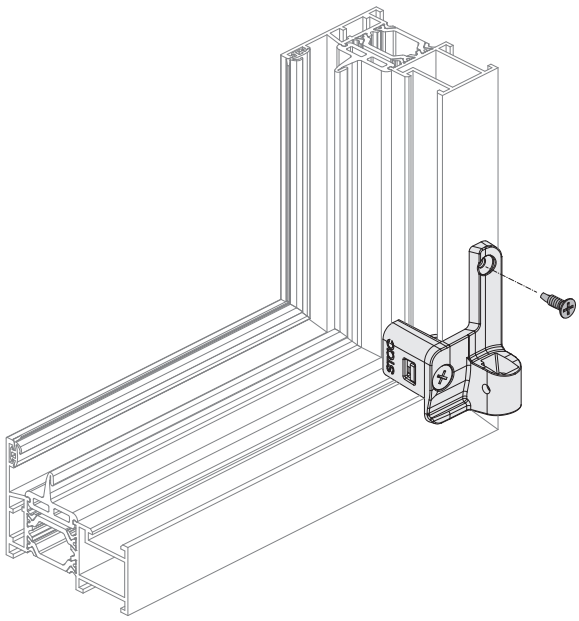
(1) Reinforcement piece with DIN 7504P 3.5 x 13 mm screws on the upper hinge.

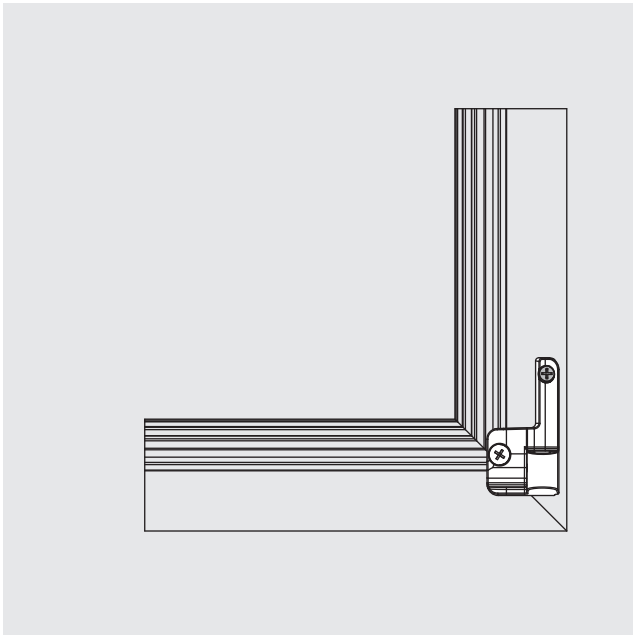
(2) Stabilising screw DIN 7504P 3.5 x 13 mm in the hinge leaf of the window frame profile.





(1) Reinforcement piece with screws DIN 7504P





(2) Stabilising screw DIN 7504P

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