

UNE standards

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

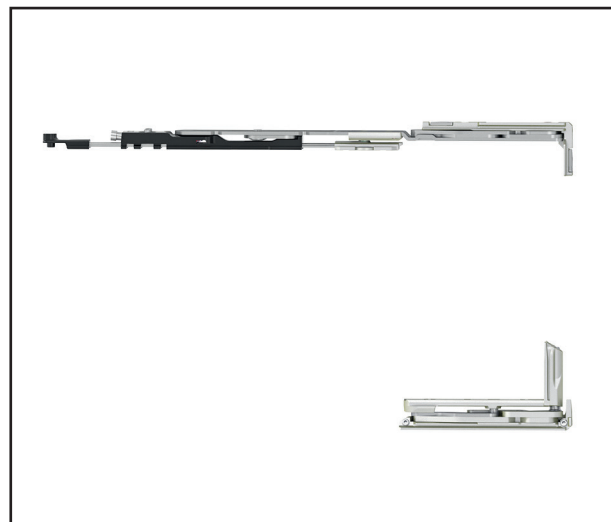
» UNE-EN 13126-1: 2012

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	H2	100	4	1300 x 1200 *

digit 1	Durability	Grade H2: 10.000 cycles (+1%).
digit 2	Mass test	100 kg.
digit 3	Corrosion resistance	Grade 4: 240 hours, very high corrosion resistance.
digit 4	Test dimensions	SRW = 1300 mm, SRH = 1200 mm (±10 mm).

* Test dimensions 1300 x 1200: 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.



CH180 PLUS hinge kits

Reference	Description	Friction stay	Opening	Type of closure		
				to the inverter	to the frame	tilt-before-turn
H1213 R1	CH180 PLUS hinge kit	large	right-hand opening	✓	✓	-
H1213 L1	CH180 PLUS hinge kit	large	lef-hand opening	✓	✓	-
H1213 R2	CH180 PLUS hinge kit	large	right-hand opening	-	-	✓
H1213 L2	CH180 PLUS hinge kit	large	lef-hand opening	-	-	✓
H1213 R3	CH180 PLUS hinge kit	small	right-hand opening	✓	✓	-
H1213 L3	CH180 PLUS hinge kit	small	lef-hand opening	✓	✓	-
H1213 R4	CH180 PLUS hinge kit	small	right-hand opening	-	-	✓
H1213 L4	CH180 PLUS hinge kit	small	lef-hand opening	-	-	✓
H1214 R	CH180 PLUS hinge kit for passive sash		right-hand opening	-	-	-
H1214 L	CH180 PLUS hinge kit for passive sash		lef-hand opening	-	-	-

CH180 PLUS hinges tilt & turn kits

Reference	Description	Friction stay	Opening	Type of closure		
				to the inverter	to the frame	tilt-before-turn
H1233 R1	CH180 PLUS tilt & turn kit	large	right-hand opening	✓	-	-
H1233 L1	CH180 PLUS tilt & turn kit	large	lef-hand opening	✓	-	-
H1233 R3	CH180 PLUS tilt & turn kit	small	right-hand opening	✓	-	-
H1233 L3	CH180 PLUS tilt & turn kit	small	lef-hand opening	✓	-	-
H1239 R1	CH180 PLUS tilt & turn kit	large	right-hand opening	-	✓	-
H1239 L1	CH180 PLUS tilt & turn kit	large	lef-hand opening	-	✓	-
H1239 R3	CH180 PLUS tilt & turn kit	small	right-hand opening	-	✓	-
H1239 L3	CH180 PLUS tilt & turn kit	small	lef-hand opening	-	✓	-
H1223 R2	CH180 PLUS tilt & turn kit	large	right-hand opening	-	-	✓
H1223 L2	CH180 PLUS tilt & turn kit	large	lef-hand opening	-	-	✓
H1223 R4	CH180 PLUS tilt & turn kit	small	right-hand opening	-	-	✓
H1223 L4	CH180 PLUS tilt & turn kit	small	lef-hand opening	-	-	✓

Restrictions on use according to friction stay

Reference		Supplementary								
H1213	R1 L1	-	590	550	130	100 kg	L - 516	638	490	L-567
H1213	R2 L2	-	590	550	130	100 kg	L - 516	-	-	-
H1213	R3 L3	-	470	550	90	100 kg	L - 432	518	406	L-483
H1213	R4 L4	-	470	550	90	100 kg	L - 432	-	-	-
H1213	R1 L1	A130301	930	550	130	100 kg	L - 616	1000	490	L-667
H1213	R2 L2	A130301	1220	550	130	100 kg	L-986	-	-	-
The dimensions are expressed in millimetres. (L min = minimum sash length, Hmin = minimum sash height, X = maximum opening, B = length of rod)								micro-ventilation		

Supported Euro groove profiles

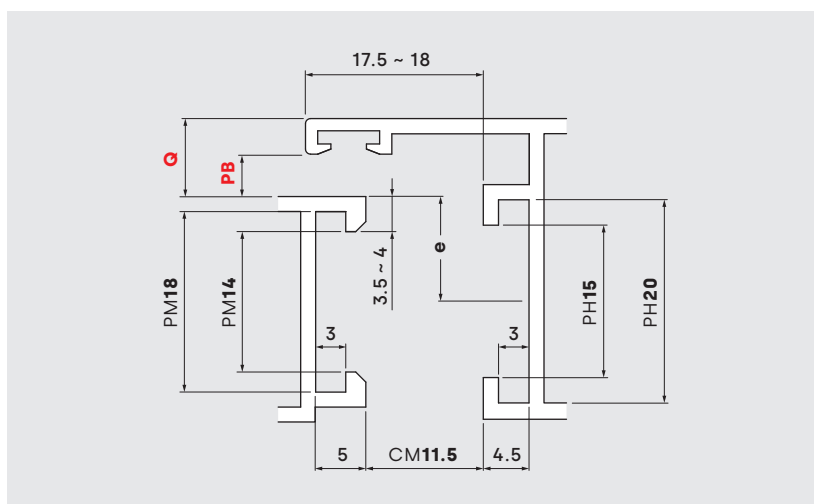
Frame profile (PM)	Sash profile (PH)	Chamber (CM)	Axis (e)	Hinge pitch (PB)
14 ~ 18 millimetres	15 ~ 20 millimetres	11.5 millimetres	10 millimetres	see tables

PB Maximum opening angle

3	175°
4.5	180°
5.5	180°

Q Maximum opening angle

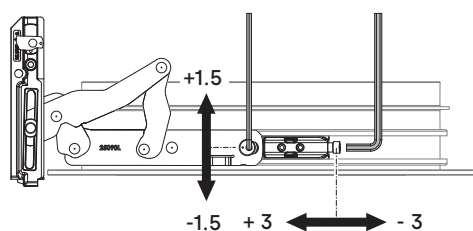
3	130°
4.5	130°
5.5	90°



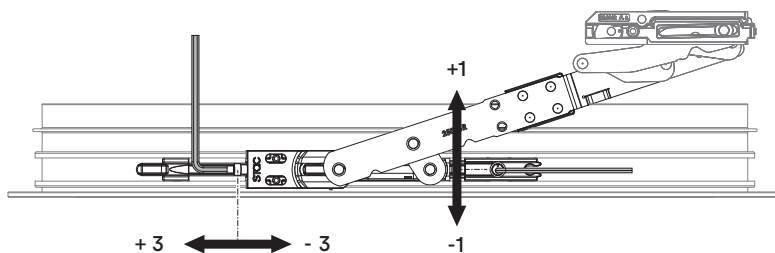
Adjustments

Sash	Tightening adjustment	Slipping adjustment	Lateral adjustment	Height adjustment
Upper passive	±1.5 mm  allen 3	±3 mm  allen 4	-	-
Upper active	±1 mm  allen 3	±3 mm  allen 4	-	-
Lower passive	+0.5 mm  allen 2.5	-	±1.5 mm  allen 3	+2.5, -0.5 mm  allen 4
Active passive	+0.5 mm  allen 2.5	-	±1.5 mm  allen 3	+2.5, -0.5 mm  allen 4

» Adjustments on
passive upper sash hinge



» Adjustments on
active upper sash hinge



» Adjustments on
active & passive lower sash hinge

