



GUILLOTINE TECHNICAL CATALOG





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I. DESCRIPTION OF THE PRODUCT AND FEATURES

a. This first-class product is designed to be used with confidence and comfort in all four seasons.

b. It offers the possibility of use where horizontal glass panels are collected vertically downwards and can be fully closed when desired.

c. It consists of movable glass systems surrounded by aluminum-framed glass panels, which are modularly mounted on an aluminum structural carrier frame.

d. It is composed of three framed glass systems. The mechanism that enables the assembly movement includes a chain carrying the upper glass mounted with a gear wheel on a steel motor tube, along with a custom-made weight balancing attachment mounted at the front of the chain.

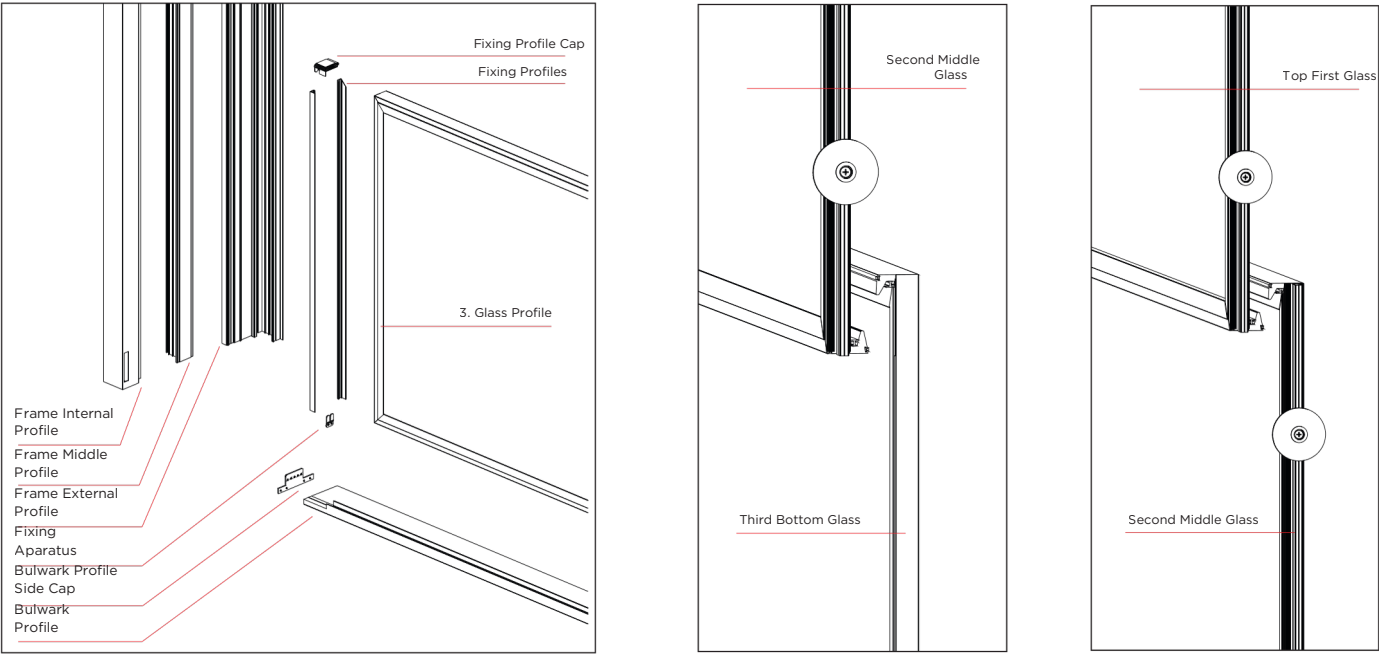
e. The chain system responsible for the movement features a self-locking function when stationary, according to the motor's operating principle, even under potential safety risks. Additionally, the weight balancers at the front of the chains provide manual support in similar situations.

f. Various types of heat- and UV-protected special rubber gaskets and brush insulation wicks are used throughout the system and its structural combinations. These seals prevent water and air infiltration, enhancing the product's performance with a "4 Seasons Comfort" approach.

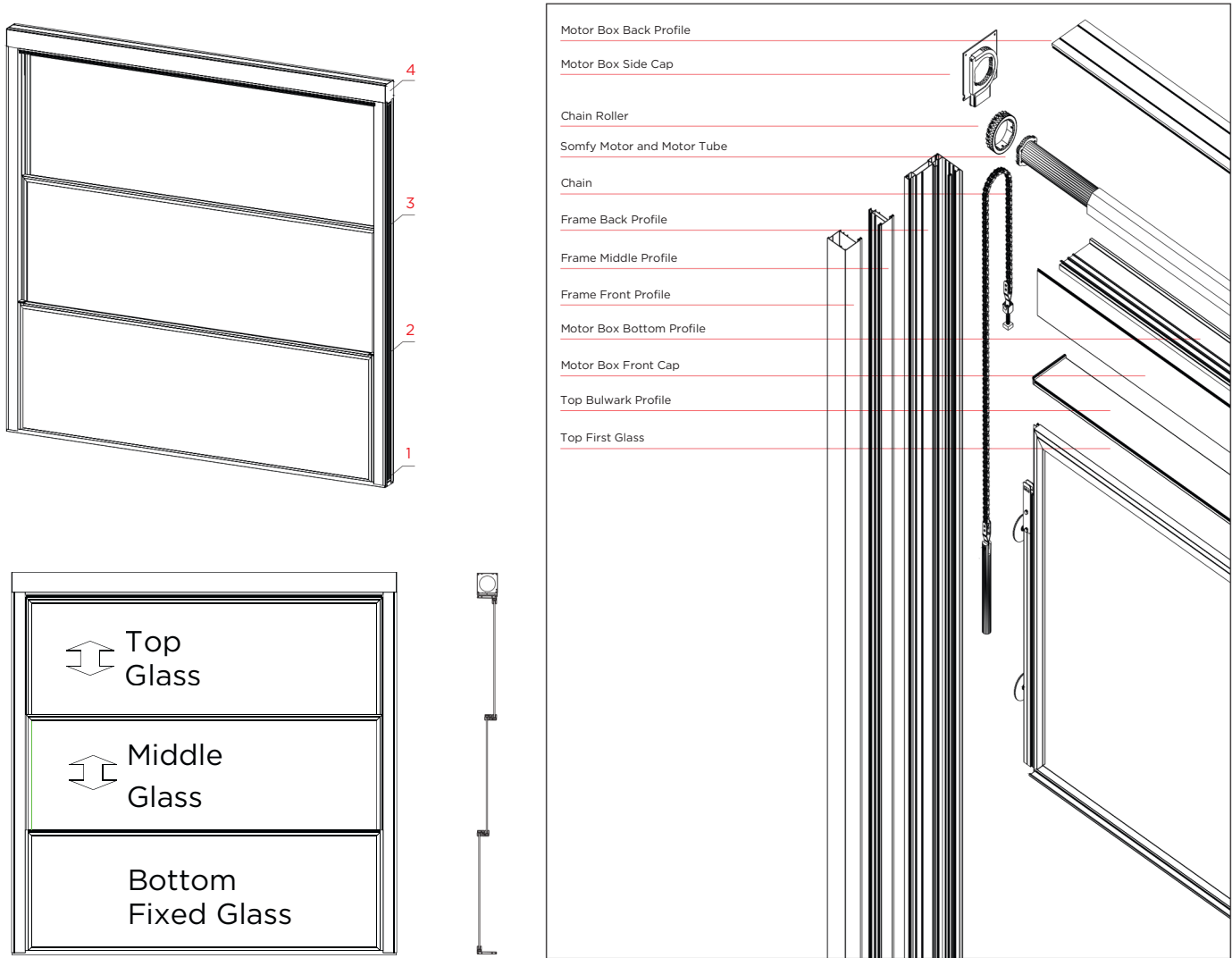
g. The system can be manufactured as a single 8mm thick glass or as double-glazed units with two 4mm thick panes and a 16mm air gap between them, referred to as Cormorano, in line with customer requests.

h. The Guillotine Glass System has been deemed suitable for the IFT ROSENHEIM certification, proving its competitiveness in gaining customer trust in global markets and successfully passing all tests in the certification process.

II. CONNECTION POINTS DETAILS

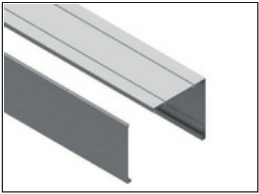
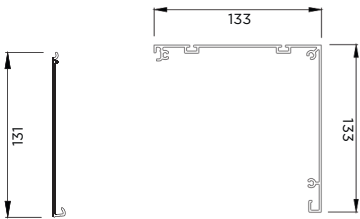


1. Bottom Frame Corner 2. 3.Glass and 2.Glass 3. 1.Glass and 2.Glass 4. Top Corner

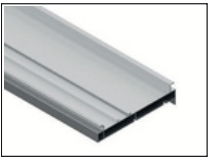
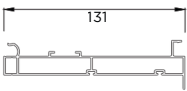


III. ALUMINUM PROFILES, SECTIONS AND PROPERTIES

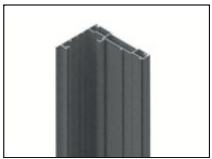
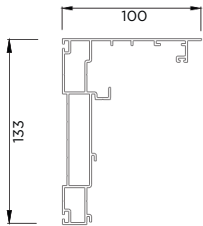
Top Motor Box
Back Profile



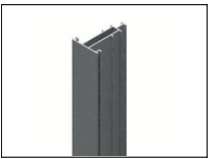
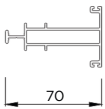
Motor Box
Bottom Profile



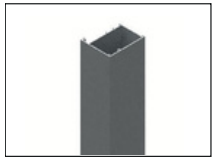
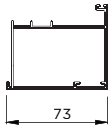
Frame
Back Profile



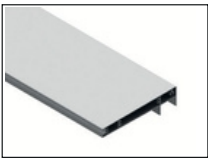
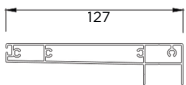
Frame
Middle Profile



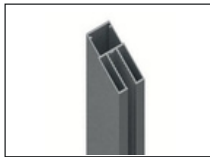
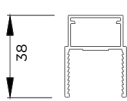
Frame
Front Profile



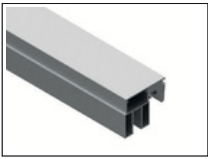
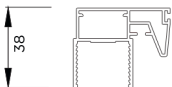
Bulwark
Profile



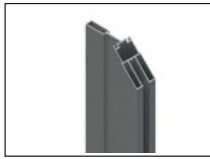
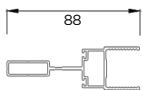
3. Glass
Frame
Profile



Glass
Top
Frame



1. and 2.
Glass
Frame
Profile



Chemical Compositions - EN573-3 (EN - AW %)

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other		Al
									Each	Total	
6060	0,30-0,60	0,10-0,30	0,10	0,10	0,35-0,60	0,05	0,15	0,10	0,05	0,15	Total

Mechanical Properties EN 755-2

Alloy	Temper	Wall Thickness e mm*	Tensile Strength Rm Mpa min	Test Resistance Rpo.2 Mpa min	Elongation		Brinell Hardness HB**
					A50mm % min	A % min	
EN -AW 6060	T4	e ≤ 25	120	60	14	16	45
	T5	e ≤ 5	160	120	6	8	55
	T6	e ≤ 3	190	150	6	8	65
		3 < e ≤ 25	170	140	6	8	60
	T66	e ≤ 3	215	160	6	8	70
		3 < e ≤ 25	195	150	6	8	65

Physical Properties	
Alloy EN - AW	6060
Metallic Range °C	585-650
Density g/cm³	2,70
Electrical Conductivity MS/m	34-38
Thermal Cond. W/(m K)	200-220
Essence J/(Kg K)	898
Thermal expansion values	
-50 to 20 °C (10 ⁻⁶ K)	21,8
20 to 100 °C (10 ⁻⁶ K)	23,4
20 to 200 °C (10 ⁻⁶ K)	24,5
20 to 300 °C (10 ⁻⁶ K)	25,6
Elasticity Coefficient Mpa	69500
Shear Coefficient Mpa	26100

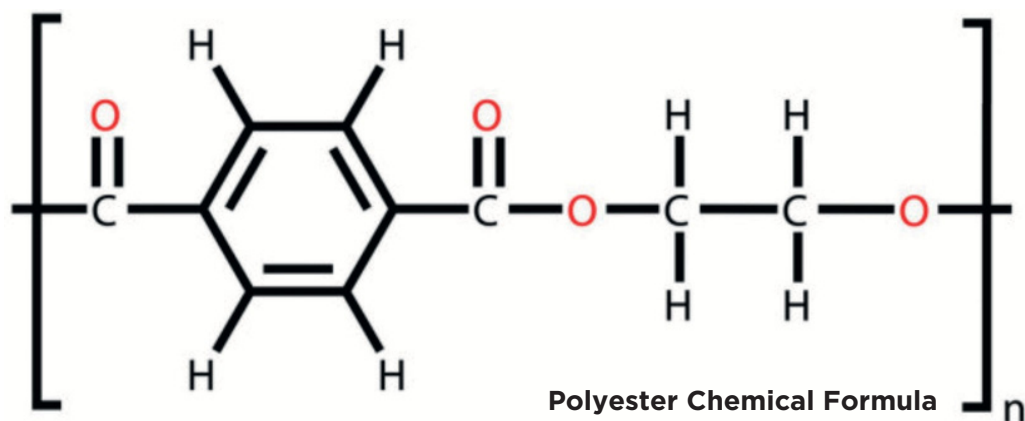
VI. POWDER COATING AND PROCESS PROPERTIES

A 5-year paint warranty is provided for all products coated with electrostatic powder paint. All aluminum and steel materials used are painted using PE Electrostatic Powder Coating. The manufacturer operates with chemical purification and abrasion facilities, which are key components of the powder coating process. All products feature first-quality polyester powder coatings from leading European and Turkish brands such as Powder JOTA, PULVE, and IBA. The paint quality complies with QUALICOAT standards. Every project produced in the factory undergoes a quality control process based on the testing and observation criteria defined by QUALICOAT. A special "Quality Certificate" is prepared for each order and delivered to customers. Along with the products, test plates and test reports demonstrating that these tests have been performed are also provided to customers.

Test Standards :

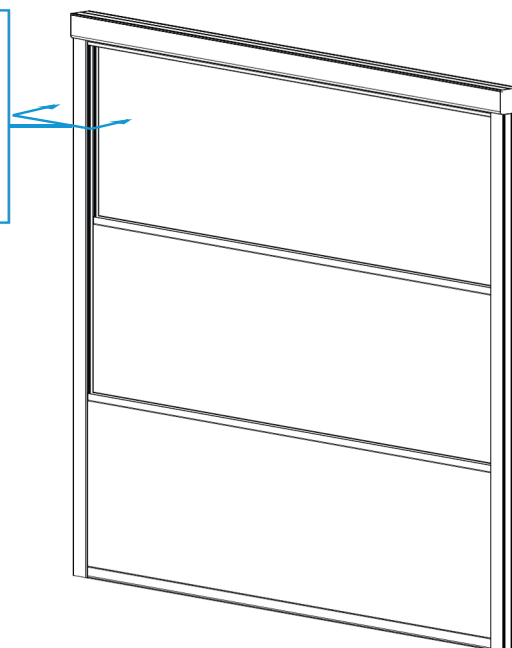
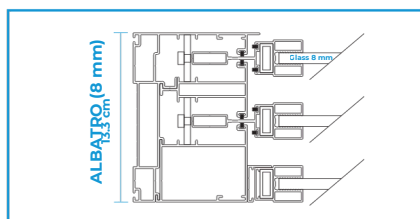
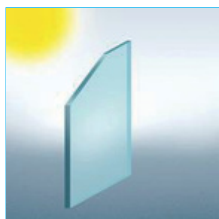
Within the QUALICOAT admissions, all tests listed below must be passed:

- **Adhesion Test (EN ISO 2409)**
- **Bending Test (EN ISO 1519)**
- **Impact Test (ASTM D2794)**
- **Cupping Test (EN ISO 1520)**
- **Surface Treatment Baths**
 - There are 5 5m3 bathrooms
 - Acidic degreasing
 - Mains rinse
 - DI rinse
 - Passivation Bath
 - DI rinse



IV . GLASS CONFIGURATIONS

PANE : Clear Float Glass
8 mm Clear



Daylight Properties (EN 410)

Daylight Transmittance : 89%
Daylight Reflectance Outdoor : 8%
Daylight Reflectance Indoor : 8%

Solar Energy Properties (EN 410)

Solar Energy Direct Transmittance : 80%
Solar Energy Reflectance Outdoor : 7%
Solar Energy Absorption Solar : 13%
Heat Gain Coefficient (Solar Factor / g) : 83%
Shading Coefficient : 0.96
UV Transmission : 58%

Thermal Conductivity (EN 673)

U Value W/(m2K) : 5.6

Sound Insulation Value (EN 12758)

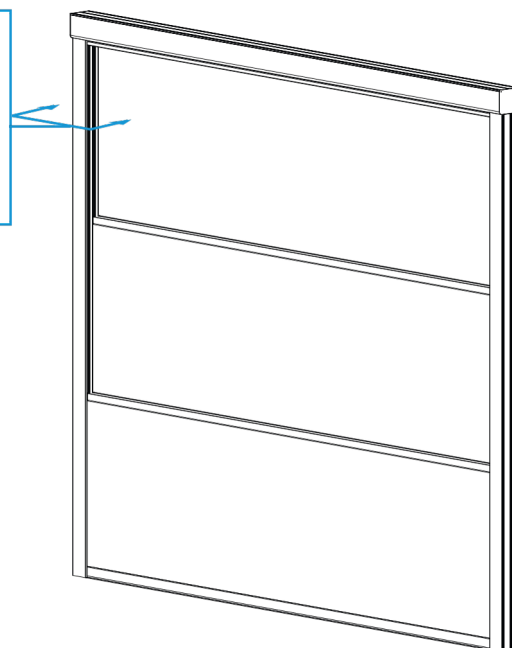
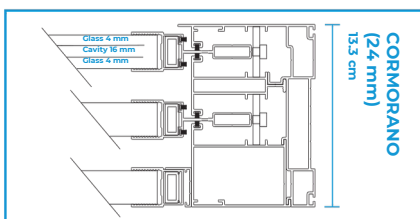
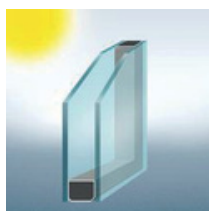
Rw (C; Ctr) dB : 32 (-2; -3)

Verlass Cormorano Double Glass Type 1

OUTER PANE : Clear FloatGlass
4 mm Clear

CAVITY : 16 mm Cavity (Air)

INNER PANE : Clear Float Glass
4 mm Clear



Daylight Properties (EN 410)

Daylight Transmittance : 82
Daylight Reflectance Outdoor : %
Daylight Reflectance Indoor : 15
%

Solar Energy Properties (EN 410)

Solar Energy Direct Transmittance : ~~75~~ %
Solar Energy Reflectance Outdoor : ~~7~~ %
Solar Energy Absorption : 13%
Solar Heat Gain Coefficient (Solar Factor / g) : 78%
Shading Coefficient : 0.90
UV Transmission : 53%

Thermal Conductivity (EN 673)

U Value W/(m2K) : 2.7

Sound Insulation Value (EN 12758)

Rw (C; Ctr) dB : 29 (-1; -4)

Cormorano Double Glass Type 2

- OUTER PANE

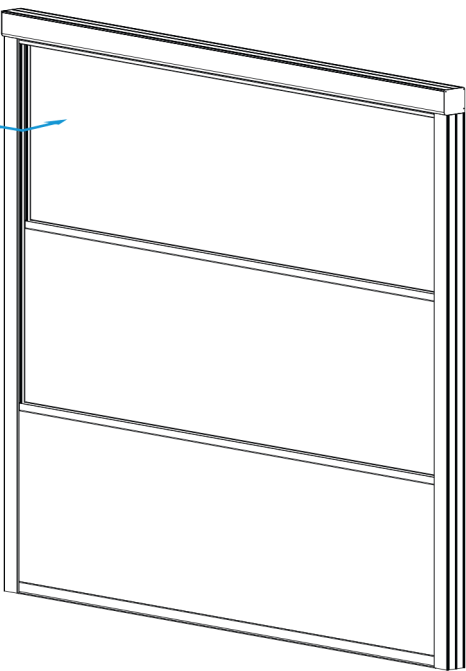
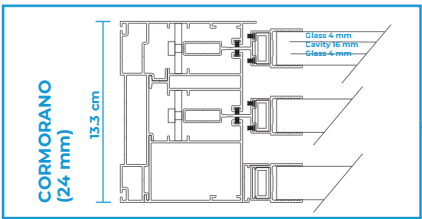
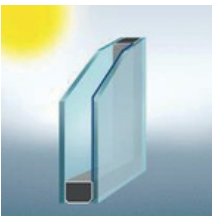
: Clear Float Glass

4 mm Clear
- CAVITY

: 16 mm Cavity (Argon)
- INNER PANE

: Temperable Low-E Glass

4 mm Neutral 71/53 (Surface #3)



Daylight Properties (EN 410)

- Daylight Transmittance

:

74%
- Daylight Reflectance Outdoor

:

17%
- Daylight Reflectance Indoor

:

19%

Solar Energy Properties (EN 410)

- Solar Energy Direct Transmittance

:

51%
- Solar Energy Reflectance Outdoor

:

29%
- Solar Energy Absorption Solar

:

19%
- Heat Gain Coefficient (Solar Factor / g)

:

60%
- Shading Coefficient

:

0.69
- UV Transmission

:

38%

Thermal Conductivity (EN 673)

- U Value W/(m2K)

:

1.1

Sound Insulation Value (EN 12758)

- Rw (C; Ctr) dB

:

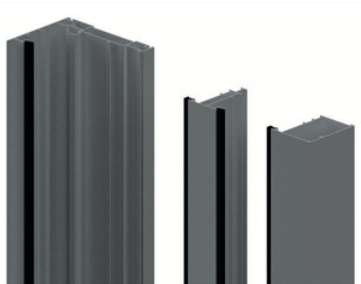
29 (-1; -4)

V. SPECIAL SOLUTIONS



In the side frame of the product, a hair wick has been added to prevent small particles and dust from entering the movement surface between the profiles. The movement channels of the glass systems are kept clean, ensuring smooth operation remains as perfect as on the first day.

The chain on which the upper glass is mounted preserves the balance in the movement of all 3 glasses and undertakes manual safety duty for extraordinary situations.

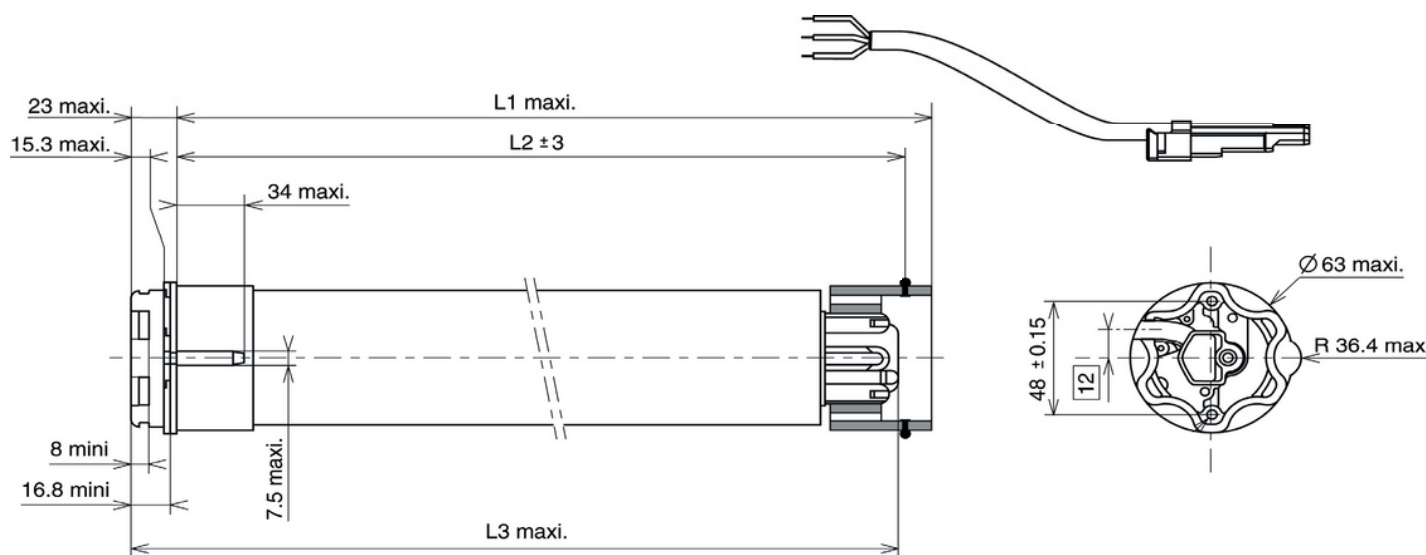


VII MOTOR VE REMOTE CONTROL

Movement must be provided for each product with one 85/17 Somfy Altus Motor. The motor is also controlled by Somfy RTS Telis Remote Control.



Somfy Motor Section View



Somfy Motor Technical Specifications

Type of head	Star Head
Nominal voltage	230 V 50 Hz
Power supply tolerances	207 - 253 V AC
Thermal time	4 minutes
Number of wires of the cable	3
Wire section	0,75 mm ²
Type of limit switch unit	Electronic
Capacity of the LSU	200 turns
Repeatability	< ± 3°
System of protection	IP 44
Interface drawings	Wheel interface LT60 206801-Crown interface LT60, LT60ADF, FTS60 & LT60CSI 206802-Interface drawing star head LT60 206803-Interface drawing LT50&60 buttons 206817.
Radio frequency	433,42 MHz
Coding	Rolling code 16million of possibilities
Capacity of memory	12 different transmitters plus 3 wireless sensors
Antenna	Integrated
Range	20 m with 2 reinforced concrete walls to be passed through
R&TTE (Radio Equipement and Telecommunications Terminal Equipment Directive)	Dir 1999/5/CE
Safety Security	EN 60335 - 2 - 97
Electromagnetic compatibility	EN 301489 - 3
Radio frequency	EN 300 - 220 - 3
Application	
Principle	
Basic crown for tube Ø	63 x 1,5 mm
Temperature working range	Normal use: -10°C to +40°C Exceptional use (20% of the life time not simultaneous): -20°C to +70°C
Noise level	According to SOMFY measures (for information only). Worse value: in load up direction during 10 seconds.



	Nm	rpm		mm	mm	mm	mm	W	A	°C		kg	dBA	mm	µF
Introduction	Tork	Speed	Reference	L1 max.	L2 (±3 mm)	L3 max.	Tube	Power	Current	Thermal Measure	Braking Type	Weight	Sound	Stator	Capacitor
ALTUS 60 RTS 55/17	55	17	5005453	734	717	740	670	290	1,5	130	sliding	4,18	64	85	11
ALTUS 60 RTS 70/17	70	17	5005454	734	717	740	670	350	1,9	130	sliding	4,5	66	100	14
ALTUS 60 RTS 85/17	85	17	5005455	734	717	740	670	400	2,1	140*	sliding	4,7	66	115	15
ALTUS 60 RTS 100/12	100	12	5005456	734	717	740	670	350	1,9	130	sliding	4,82	65	100	14
ALTUS 60 RTS 120/12	120	12	5005457	734	717	740	670	400	2,1	140*	sliding	5,03	65	115	15

*The motor types we use are tagged in red.

Note

[illegible]

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