

SECTION

* NOTE TO SPECIFIER * [section information is given by the architect/engineering]

**SOMFY GLYDEA MOTORIZED TRACK SYSTEM
SOMFY GLYDEA™ 35 WT MOTOR**

* NOTE TO SPECIFIER * [Glydea is a range of motors, only take the appropriate reference within this range for your project specification].

Disclaimer for advice given to architects and engineers

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Part 1 – General

1.01 Sections Includes:

- A. Electrically operated : Electronic direct drive motorized curtain track
- B. Local group and master control system for shade operation.
- C. Whole Building Shade Management System: Automated Solar Tracking Control System Computer Shade Control System
* NOTE TO SPECIFIER * [Delete items above not required for project]

1.02 Related sections:

- A. Section [XX XX XX – XXXXXX]
* NOTE TO SPECIFIER * [The section information is given by the architect/engineering]

1.03 Description:

- A. Work included:
Supply and installation of a Somfy Glydea motorize track system of power recommended by the manufacturer, with [Central opening], or [Right opening] or [Left opening] that has Manual Override Capability. And it can be [Straight] or [Curved], as specified in this document, as well as the associated attachment [Hardware] and [Control Systems] necessary for proper operation.
- B. Power:
* NOTE TO SPECIFIER * according to manufacturer
- C. Mounting:
Track to be [Wall] or [Ceiling] mounted.
Electric motor to be positioned on the [Left side] or/and [Right side], at the [Bottom] or at the [Top] of the track (up side down mounting).

1.04 Related work:

Coordinate the work with that of other Trade Contractors to ensure proper execution of the work of both trades. Examine Contract Documents for requirements that directly affect or are affected by Work of this Section.

1.05 Submittals:

- A. General:

The specified Somfy Glydea motorize track system should be able to deal with the applications as :
drapery track systems
* NOTE TO SPECIFIER * [Delete items above not required for project]
- B. Product Official Technical Data sheets:
* NOTE TO SPECIFIER * [Please contact Somfy for official documentation]
- C. System components:
* NOTE TO SPECIFIER *
- D. System Dimensions:
* NOTE TO SPECIFIER *
- E. Shop Drawings:
Plans, elevations, sections, product details, installation details, operational clearances, wiring diagrams and relationship to adjacent work
- F. Window System:
* NOTE TO SPECIFIER * [Pay special attention to the following information to fill this part]

Check that height and weight can be handled by the Somfy Glydea motorize track system with the different applications. Verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings. Allow clearances for operable glazed units' operation hardware throughout the entire operating range. Notify Architect of discrepancies. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

G. Installation and Operating instructions manuals

- * NOTE TO SPECIFIER * [Please contact Somfy for official documentation]
- * Installation have to be done by trained installer.

H. Sample and Mock up:

If required by the architect, a sample or a mock up can be provided.

- * NOTE TO SPECIFIER * [A mock up is not mandatory. Add this part only if required by the architect. The way this part is written is just an example, please add any relevant information.]

I. Manufacturer Certificate:

- a. Certification that products comply with requirements of the Contract Documents.
- b. Furnish signed certification by manufacturer attesting that installation complies with specified requirements.

1.06 Quality Insurance :

- A. Somfy Glydea motorize track system shall be manufactured to meet or exceed all quality standards as stipulated in the Quality Control Manual, issued by SOMFY.
- B. A qualified installer or sub-contractor shall perform installation (credentials or installer)
- C. Installation shall conform to Local and National Building Codes and any applicable local standard
- D. The sample of the system may be provided and installed upon Architect's request
- E. Electrical Components and Accessories: Listed as defined by a testing agency (i.e. SASO) acceptable to authorities having jurisdiction, and marked for intended use.
 - * NOTE TO SPECIFIER * [Part E is only required for Saudi Arabia]

1.07 Standards (CE /UR) : → <http://www.somfy.com/ce>

- * NOTE TO SPECIFIER * [No need to put all the standards on this section, only select or add the ones which are required on your market, please make a local check]

A. European conformity:

a. CE conformity GLYDEA™ motor range is in conformity with the following European directives:

- o Low voltage directive 2006/95/CE dated 2006/12/12
- o Electromagnetic compatibility 2004/108/CE dated 2004/12/15

The following reference standards were applied to assess the conformity with respect of the above-mentioned European Directives:

- o **EN 60335-2-97:2006** - Household and similar electrical appliances - Safety -- Part 2-97: Particular requirements for drives for rolling shutters, awnings, blinds and similar equipment
- o **EN 50366:2003 + A1:2006** - Household and similar electrical appliances - Electromagnetic fields - Methods for evaluation and measurement
- o **EN 55014-2:1997 + A1:2001** - Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus -- Part 2: Immunity - Product family standard
- o **EN 55014-1:2006** - Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus -- Part 1: Emission
- o **EN 300220-1-V2.1.1:2006 ; EN 55022:2006 + A1 : 2007** – Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 1: Technical characteristics and test methods.

b. ROHS compliance:

- o GLYDEA™ 60e complies with RoHS Directive, 2002/95/EC: Restriction of the use of certain hazardous substances in electrical and electronic equipment

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B. TUV → <http://www.tuvdotcom.com>

GLYDEA™ motor range is certified by cTUVus, TUV GS with category code numbers:

- **HU 05000703** – Curtain operator:
 - IEC60335-1:2001+C1+A1+A1/C1+A2+A2/C2
 - IEC 60335-2-97:2002 + A1 + A2
- **CU 72100845** – Motor (motorized curtain operator):
 - UL325:2002R6.09
 - CAN/CSA-22.2 NO. 247-92 (R2008)
- **S1 72101838** – Motor (motorized curtain operator):
 - ZEK01.2-08/12.2008
 - EN60335-2-97:2006+A11+A2
 - EN 60335-1:2002+A1+A11+A12+A2+A13

C. C-Tick (Standards for Australia):

- Radiocommunications Labeling (Electromagnetic Compatibility)

D. K-Mark (Standards for South Korea):

- K-Mark certified in accordance with KTL-IEC 60335-1 - Household and similar electrical appliances – Safety – General requirements

E. Saudi Arabian Standards Organization (SASO) compliance:

- Comply with Product Conformity Program for Kingdom of Saudi Arabia

1.08 Delivery, storage and Handling:

- A. Product Somfy Glydea motorize track system shall be delivered to the manufacturer OEM in original packaging, to be mounted on end products.
- B. Product Somfy Glydea motorize track system shall be delivered to the project site in manufacturer's packaging.
- C. Somfy Glydea motorize track system shall be handled and stored to prevent damage to materials, finishes and operating mechanisms.
- D. Systems shall be stored under normal room temperature range (0 °C to + 60 °C), humidity (85 % maxi at 35°C).
- E. Before installation, check that this product is compatible with the associated equipment and accessories.
- F. Somfy Glydea motorize track system must be installed by a Somfy qualified installer.

1.09 Warranty standards:

- A. The Somfy Glydea motorize track system shall be warranted to be free from defects and workmanship for a period of 5 years.
- B. Any use outside the sphere of application specified by Somfy is not approved. Such use, or any failure to comply with the instructions will invalidate the warranty, and Somfy refuses to accept liability.

Part 2 – Products

2.01 Manufacturer:

A. Manufacturer:

GLYDEA™ 35 WT motors are manufactured by:
SOMFY SAS - 50 rue du Nouveau Monde - 74300 CLUSES - FRANCE
Tel: 0033 450 967 060 - <http://www.somfy.com>

B. System:

GLYDEA™ 35 WT motors

* NOTE TO SPECIFIER * [If more than the motor is specified, add the other products specified like controls, etc.]

C. Alternates:

Equal approved by architect/engineer.

2.02 Motor Unit:

A. Functionalities / benefits:

- Quiet operation → 50 dB(A)
- Automatic setting (end limit)
- Easy upgradable – 1.55m 4-wire cable
-

B. Integrated power supply: Integrated inside a direct supply transfer of power supply.

C. Geared Motor: to be a DC motor with precision planetary gears reduction, integrating the lyrease system; rated at 0.6A at 120V and 0.3A at 240V, to provide a nominal torque of 0.6Nm (1.1 maximal Watt consumption). To operate a curtain up to 35 Kg in weight on a 2 way 6 m straight track with an average linear speed of 20 cm/s. For exact weight capacity on different track configuration or length, please see manufacturer's width/weight capacity chart.

D. Manual override: To be achieved through lyre release system, which disconnects automatically the electrical geared motor unit from the track to allow manual operation of the drapery in both directions at all times when the motor unit is not running or when power is interrupted, can also be considered a preventative "safety device" in order to protect the drapery and associated hardware from rough manual operation by people not knowing that the drapery is motorized.

E. Limit switching: To be electronic overload current based, to stop automatically on the end stops or optionally on an open back release position for the fabric to fall nicely, requiring no adjustment or readjustment during lifetime or after manual operation.

F. Motor Control: To be a 24 V relaying and 3.3 VDC logic circuit with programmable microprocessor. To include motor protection by overload current sensing and maximum run timer and soft start. To be controlled by an AC switching contacts, as well as optionally a radio frequency external receiver (RF) to allow wireless control with Somfy RTS transmitters.

G. Operating mode: Maintained contact to close or to open.

H. Accuracy: Extreme positions will remain within +/- 20 mm from the set positions over 10 000 cycles (one cycle is a go and back on a 10 meters track length).

- NOTE TO SPECIFIER * [To be adapted according to the motor specified – Refer to Datasheets that can be downloaded from SOMFY Products & Surveys database]

I. Motor unit fixing: Motor unit to be maximum 53 mm in thickness and can be attached on site of installation on the left, on the right, on the bottom but also on the top of the rail, to be hidden in false ceilings.

J. Noise level: Motorized curtain track to be at 50DbA (Average Sound Pressure Level) at 20 cm/s and according to Somfy sound measurement procedure.

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- K. **Motor architecture:** Patented architecture to allow the total hiding of the connectors, cables and control modules.
- L. **Wires and cables:** Power cord is supplied with free termination wires allowing for easy cabling to any power control box. Wire section is a 1.00 mm²

2.03 Curtain track:

- A. **Headrail:** To be manufactured from 6063-T5/6060-T64 AL (coated) extruded aluminum of 30.5 mm (1.2") in width, 25,1 mm (1-1/32") in height, curvable to a minimum radius of 250 mm (10"). Curves shall be factory made according to template or specification.
- B. **Drive Belt:** To be a PU synchronous toothed belt, with fabric on teeth and on the back, reinforced by 5 steel cords, and circulates internally within the headrail to ensure smooth travel even if the track is curved.
- C. **Drive Assembly and Return Assembly:** To be manufactured from injection molded plastic, equipped with a bush bearing and allow multiple curtain hook attachments.
- D. **Carriers:** To be wheel mounted type, with rotating eyelet and being able to accommodate to pinch pleat heading (or ripple/s-fold).
- E. **Master carrier and arms:** To be wheel mounted to assure a smooth and long life working in a 30 cm bent track and to accommodate pinch pleat heading (or ripple/s-fold) with stainless steel arms.
- F. **Brackets:** To be manufacture of steel [one touch type for easy mount] and [a swivel type for a maximum of 2 mm light gap]
* NOTE TO SPECIFIER * [To be adapted according to the project and the end product specified for the project]

2.04 Control Accessories to be supplied:

- A. Local or Group Control:
 - Dry contact switches, Somfy single and multiple [8 channel] Infrared transmitters, Somfy One channel or 5 channel Radio transmitters, Chronis automatic timer, Sun Sensor, ...
- B. Automatic Control:
- C. Control operation mode:
- D. Multi-Level Control:
* NOTE TO SPECIFIER * [To be adapted according to the project and the motor selected for the project]

2.05 Motor Installation and Settings:

Part 3 – Execution**3.01 Examination**

- A. Refuse delivery of any damaged packaging.
- B. Ensure all parts specified in the purchase order have been delivered

3.02 Installation:

- A. Somfy Glydea motorize track system have to be installed, connected and set in accordance with SOMFY instructions and in compliance with federal, state or local regulation.
- B. Installation contractor is responsible for site measurements and suitability of mounting surface.
- C. Adequate clearance has to be provided to permit unencumbered operation of the entire system.
- D. Can only be installed inside (Temperature working range: from 0 to +60°C).

3.03 Use:

- A. This motor can only be used under normal utilization temperature: from **0°C to +60°C** , Humidity: max **85% to 35°C** .

3.04 Maintenance:

- A. The installer has to inform his customers of the operating and maintenance conditions for the product.
- B. This motor should not require routine maintenance under normal utilization (temperature: from **°C to +60°C** , Humidity: max **85% to 35°C**).

Part 4 – Appendices

4.01 Somfy Glydea motorize track system -Technical Characteristics.

		Glydea™ 35	
		Reference	WT 1001525
Motor mechanical characteristics	Nominal torque	Nm	0,6
	Maximum stall torque	Nm	0,7
	No load speed	rpm	160
	Nominal speed	rpm	90 ⁽²⁾
	Working temperature	°C (°F)	0°C to +60°C 85%HR at 35°C (+32°F to +140°F 85%HR at 95°F)
	Storage temperature	°C (°F)	-30°C to +80°C 85%HR at 35°C (-22°F to +176°F 85%HR at 95°F)
	Manual operation		YES
	Type of limit		Limits on hard stops - Current detection
	Limit switch accuracy	mm	N/A
	Protection index	IP	30
	Soft stop		NO
	Soft start		YES
	Noise level (Power) ⁽³⁾	dB(A)	53
	Noise level (Pressure) ⁽³⁾	dB(A)	43
Netweight of the motor	g	1220	
Electrical characteristics	Voltage range	Vac	90 to 255
	Frequency range	Hz	47 to 63
	Maximum Current	A	0.6 at 120VAC, 0.3 at 240VAC
	Stand by power	W	1,1
	Power cable type		H05 VVF
	Power cable number of wire		4
	Power cable wire section (Ø)	mm ²	1,00
	Control connector		RJ12 for setup only
	Control method		AC switch ⁽⁴⁾
	Dry contact minimum closure time	ms	N/A
	Voltage in control line (supplied by the motor)	V	5 Vdc
	Maximum voltage drop in DCT control line	V	N/A
	Touch motion		NO
	Insulation class		Class I
Maximum running time in one direction ⁽⁵⁾		2min 30s	
Standards & Patents	Certification & Marking		CCC / TÜV GS / CE / C-TICK / SASO / T-Mark
	Patents		Patents pending

⁽¹⁾ Values given at different speed regulation settings (20 / 17.5 / 15 / 12.5 cm/s)
⁽²⁾ Maximum speed at nominal torque
⁽³⁾ Indicative and according to SOMFY measurement standards
⁽⁴⁾ Requires mechanical relay type of controller; for other types please contact Somfy. Maximum power cord length should be less than 50m.
⁽⁵⁾ Not available to Japan (DCT JP Ref 1001539)
⁽⁶⁾ Repeatedly operating the motor for extended periods may trigger thermal protection, which will require 20min of rest time.

4.02 Somfy Glydea motorize track system –Track Characteristics.

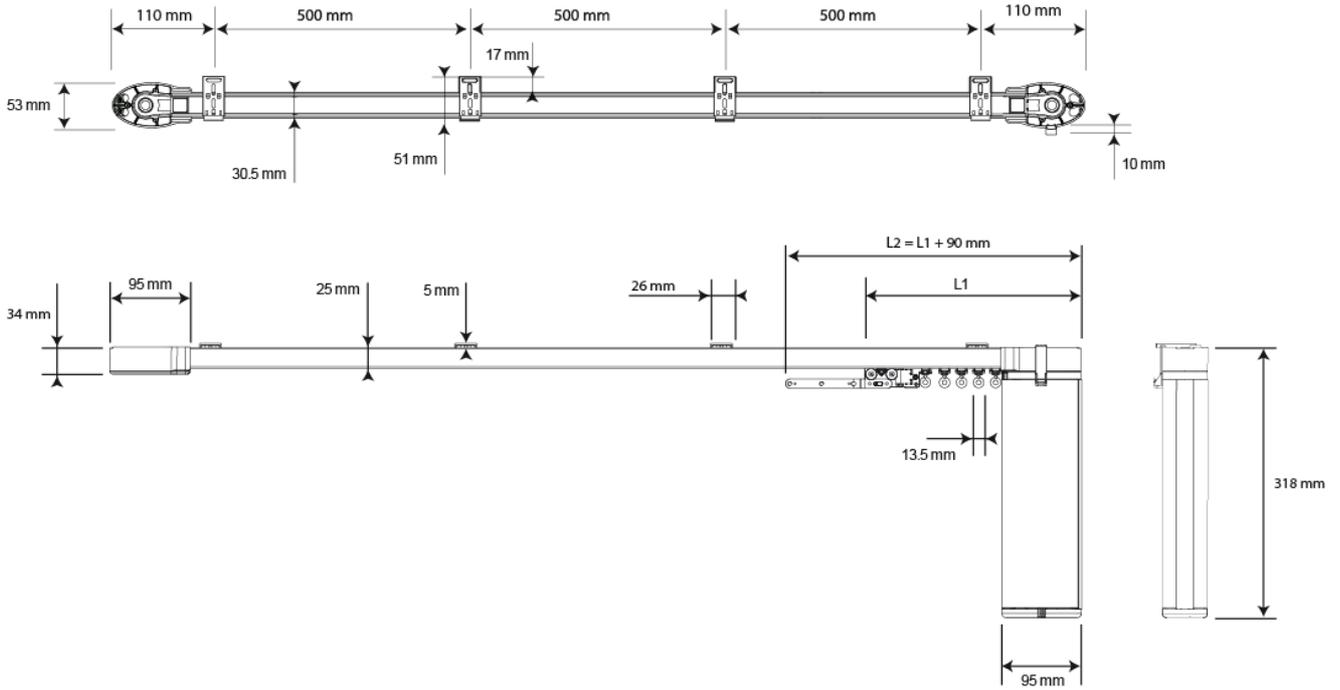
		Reference		GLYDEA™ 35
				Glydea 35 WT EU 1,5M™
				1001525
Track mechanical characteristics	Average linear speed (straight)	cm/s		20,0
	Weight capacity straight track	kg		35 kg on a 6m straight track
	Weight capacity one bent track	kg		25 kg on a 6m one bent track
	Maximum weight per runner	kg		1,5
	Maximum conflict strength	N		<150
	Maximum track length	m		10
	Maximum rail junctions	Qty		2
	Minimum bending radius	mm		300
	Minimum curving radius	mm		3000
	Rail color	RAL		White
	Rail material			6063-T52 AL or 6060-T64 AL
	Motor position			Right and/or left - up or down
	Type of openings			Central, lateral, multiple, asymmetric
	Type of curtain accommodated			Classic, pinch pleat, ripple curtain
	Type of bracket			Swivel ceiling, one touch ceiling
Patents			Patents pending	
Noise level (complete track) ⁽¹⁾		dB(A)		50

(1) Sound pressure Level I, Indicative and according to SOMFY measurement standard

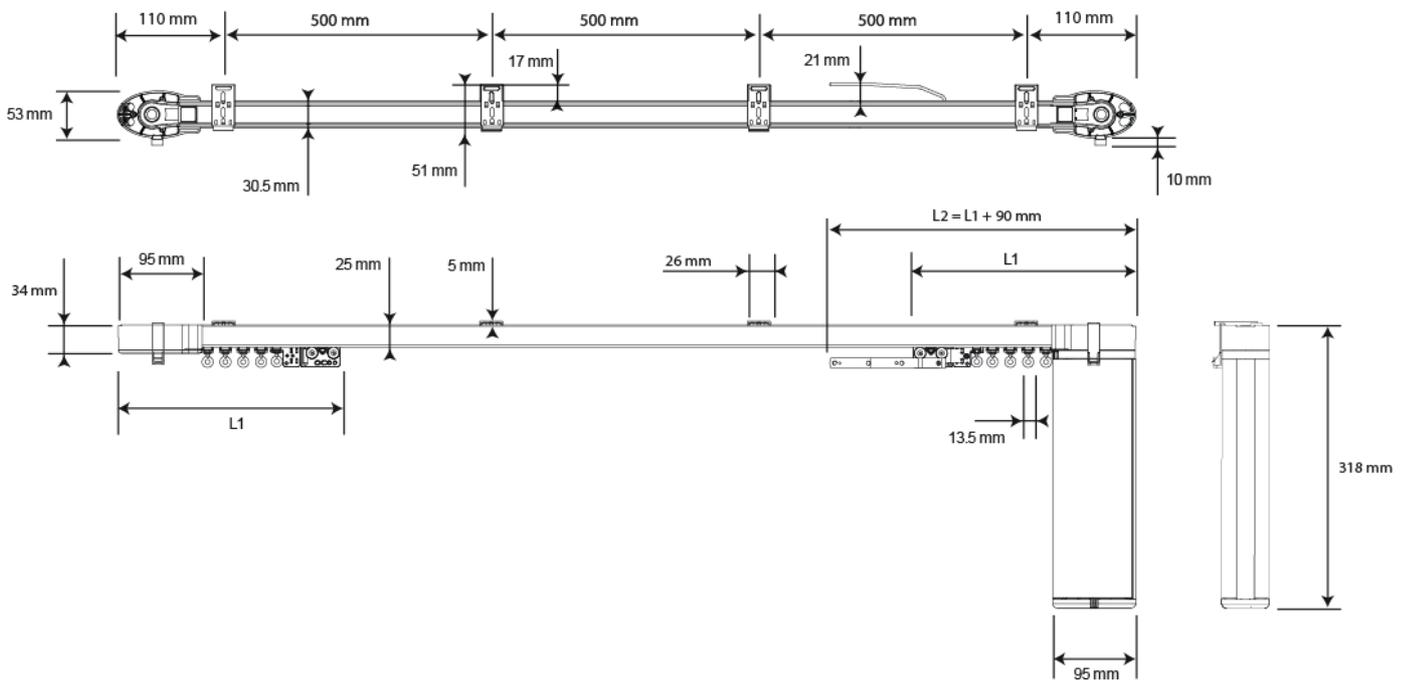
(2) At 15 cm/s

4.03 Somfy Glydea motorize track system – System dimensions.

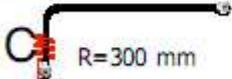
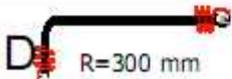
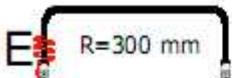
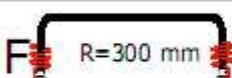
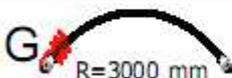
▪ Lateral opening (one way):



▪ Central opening (two way):



4.04 Somfy Glydea motorize track system – Selection charts.

Track type	GLYDEA™ 35		
	3m	6m	10m
A 	35*	35*	35
B 	35*	35*	35
C  R=300 mm	35*	25	20
D  R=300 mm	35*	25	20
E  R=300 mm	15	10	
F  R=300 mm	15	10	
G  R=3000 mm	35	15	
H  R=3000 mm	15	10	

----- END OF SECTION -----