

ULMALU® 800 *Fast* Ultrafast gate 1m/s



ULMALU® 800 FAST GATE

This is the top end access control gate, developed for particularly intensive use as a replacement for a lifting barrier.

THE SPEED OFFERED BY ULMALU® SELF-SUPPORTING GATES GUARANTEES REINFORCED SAFETY

Note: The ULMALU® 800 Fast gate will already be closed again before a standard gate is even fully open.

Applications:

Logistics companies, Seveso sites, Military sites, Nuclear power stations, Sensitive sites ...

Technical Description

The construction of ULMALU® Fast gates begins with an ULMALU® profile (integrating with the drive chain support) to which is welded a TGO profile frame. Filling of the bottom section is of horizontal profiles and the top of transparent polycarbonate (expanded aluminium metal on request). Support plates are cut with extreme precision by ultrahigh pressure waterjet techniques. For the version with bars (FAST B) the construction of the gate is identical to that of ULMALU® 800 Classic.

The sliding of the cantilever and the vertical guidance of the gate are ensured by a patented monobloc roller integrated into the bottom profile. This roller consists of polyacetal wheels running on 2RS dust-tight and lifetime-greased ball bearings. The top side guiding wheels of the same type are protected from bad weather inside the top profile.



The box-section guide post is built of profiles, aluminium sheet metal and composites installed on a precut plate. It has a full height door secured by a European ½ lock, offering discreet and aesthetic integration of control accessories without any visible cables. It also incorporates control accessories (access control CPU, interphone, etc.). The box-section guide post is particularly convenient for the maintenance technicians who can work without having to bend over.



The box-structure reception unit captures the leading end of the gate leaf, making the installation rigid in its closed position. A rear stop with a rest is included with each gate.

The ULMALU® 800 Fast gate has a new generation brushless motor with a reduction brake system. The brushless motor offers the following advantages: brushless motor with compact dimensions for equal power and improved longevity over conventional motors. It offers the possibility of cycle adjustment to within the cm by means of the sensor-encoder built into the motor and its magnetic sensors for reinitialization. The closing speed can be set up to be different from the opening speed. It allows a differentiation between torque and speed. The motor reduction unit can be disengaged easily by switchover in the event of a power cut. The speed achieved is 1 m/sec with the Fast version and is limited to 0.5 m/sec with the Fast B version.



The ULMATIC® logic controller is developed from industrial logic control components including: a programmable logic controller operating the control and safety system and a servomotor controlling a brushless motor, the position of the drive shaft, the torque and speed, through an encoder.



Modem for standard supervision and remote maintenance: To provide demanding clientele with fast service, TGO has developed modem supervision for the remote maintenance of its gates. It offers access to programming parameters, safety settings and the annual programmable clock. This option offers the customer particularly fast troubleshooting capability.



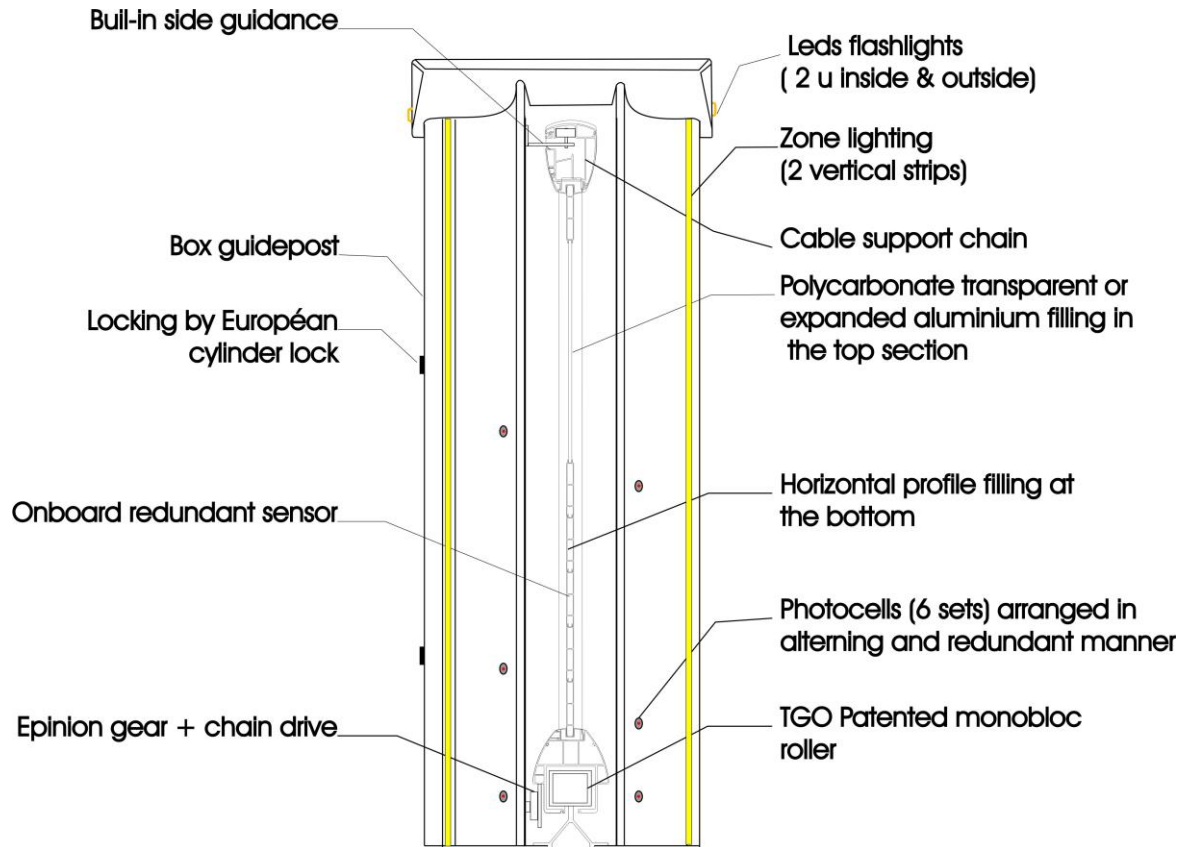
The operating control can be provided by any type of accessory supplying a dry contact (radio transmitters, readers, telephone porter, console, key switch, magnetic loop , keypad etc...).

The safety offered by the ULMALU® 800 FAST gate, complying with European standard EN 13241-1, is provided by:

- 6 presence detection devices (photoelectric cells with remote amplifier) in the high and low positions (3 on the inside and 3 on the outside) to avoid risks with vehicles having a greater than usual overhang (4x4 or HGVs). The 2 bottom detection devices are duplicated and redundant.
- A 120 mm double detection contact sensor carried on the leading edge of the leaf, supplied with power by the cable support chain built into the top profile, avoids any risks of jamming or impact due to inertia. The leaf stops over a distance of 45 mm at a speed of 1m/second.

The ULMALU® 800 Fast-B gate also includes : 4 x 120 mm double detection sensors (2 on the pass side and 2 on the no-pass side of the guide post) to avoid any risks of shearing.

Signalling is provided by two orange LEDs flash lights, and two incorporated verticals strips zone lighting, offering a particularly long life



SECTION ULMALU® 800 FAST

Technical Features	ULMALU® 800 FAST	
Type	FAST-P	FAST-B (Bars)
Maximum length	6000 mm	8000 mm
Standard heights	2000 – 2500 mm	2000 – 2500 mm
Maximum heights (suivant les longueurs)	3000 mm	3000 mm
Minimum ground clearance	102 mm	102 mm
Power supply voltage	230 V single-phase 50Hz	
Maximum consumption (excl. accessories)	800 W/H in action	
Maximum speed opening / closing	100 cm/sec	75 cm/sec
Type of motor (industrial)	Brushless + reduction brake	
Motor power	0.50 Kw	
Operating frequency	100% of the time	
Motor protection index	IP 54	
Operating temperature range	-15 à + 50 ° C	
Maximum humidity in operation	85 % without condensation	
Drive type	Pinion gear / chain mounted on tensioners	
Recommended type of use	Ultra Intensive	
Control module	Programmable logic controller	
Motor Control	Servo Variator	
Built in annual summer/winter time-dating	Standard	
Supervision		
Safety devices (standard EN 13241-1)		
<input type="checkbox"/> Photocells HGV / PC height <input type="checkbox"/> On-board sensor (option rear sensor) <input type="checkbox"/> Shearing sensors <input type="checkbox"/> Leds flash light <input type="checkbox"/> Vertical Leds lighting	6 sets (4 redundants) 1 u / L 120 mm 2 2	6 sets (4 redundants) 1 u / L 120 mm 4 u 2 2
Construction materials	Aluminium alloy 6060 T6	
Standard fill	Bottom filled with aluminium profiles Top part Transparent polycarbonate or Fine mesh netting	Bars of profiles TGO aluminium Water drop type
Finish	Chemical pickling – Rinsing – Primer and Painting polyurethane in choice of RAL colours	
Recommended number of maintenance inspections	2	



Options on ULMALU® 800 Fast :

LEDs traffic lights red / green dia. 100 or 200 mm (Compulsory on Ulmalu® 800 Fast)

Given the high speed of 800 Ulmalu® portal it is very important to inform users in display and pre-signaling devices to prevent accidents.



Deterrent line 30 mm

On request a defensive line may be proposed to strengthen deterrence and delay crossing.

Recommended for sensitive sites



Pedestrian acces attached to the gate

A pedestrian gate can be attached to the gate. Its construction is similar to the gate and allows passage of backup in case of undervoltage.

It can also be equipped with an automated vacuum by 300 kg and door closers for use control pedestrian access

Recommended option for sites with only access.



Sills and special filling (on request)

On high security sites, portals Ulmalu Fast 800 can be equipped to enhance deterrence:



- Special Fillings
- Sills and filling electrified
- Tall pics clipped
- Stainless steel harrow "Bi-Point" defensive



Double door for emergency release

Separates the manual unlocking of the automation part. The door can be equipped with a cam lock fire triangle or a European cylinder. + Option contact opening detection

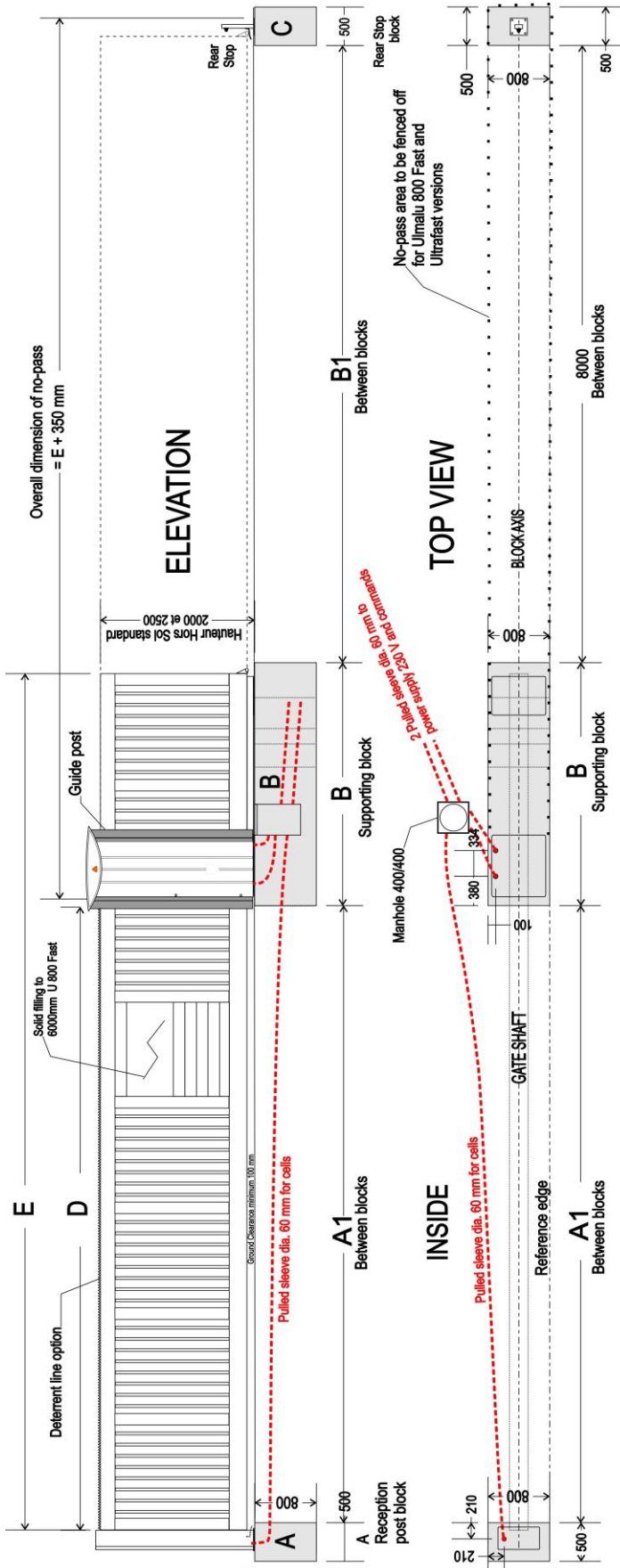


Control accessories

On request we can offer you a wide range of control accessories

Keypads - Control panel - Magnetic Loop - Radio receiver - Card reader - Intercom – etc...





ULMALU 800 GATES
OPENING TO RIGHT SEEN FROM OUTSIDE
TABLE OF PASSAGES AND FOUNDATIONS IN MM
01/01/2014

NUMBER OF PANELS	ROLLER LENGTH	A1 CLEAR PASSAGE BETWEEN BLOCKS	B WIDTH + LENGTH OF BEARING BLOCK	B1 CLEAR PASSAGE BETWEEN BLOCKS	D CLEAR PASSAGE BETWEEN POSTS	E BEAM LENGTH
4	1500	3000 à 3800	800 x 1800	3800	3850	5 630
5	1800	3800 à 4850	800 x 2100	4850	4900	7 000
6	2000	4850 à 6000	800 x 2300	6000	6050	8 370
7	2400	6000 à 7000	800 x 2700	7000	7050	9 740
8	2750	7000 à 8000	800 x 3150	8000	8050	11 110
Fixed Visitors : Entry into reception from plate = 110 à 120 mm Distance between block edge and reception post = 20 à 30 mm Distance between block edge and guide post = 150 mm Distance from plate edge to rotor = 50 mm						
TOTAL						= 350 mm

IMPORTANT NOTE TO BUILDERS

FOUNDATION BLOCKS MUST BE MADE OF REINFORCED CONCRETE SUITABLE FOR PLUG/SCREW ASSY MIXED TO 400 KG/ M3
BLOCKS A, B AND C MUST BE EXACTLY AT SAME LEVEL AND PLANE W/O ANY CAMBER
LEVEL +/- OF BLOCKS IS HIGHEST POINT OF ROAD
NO-PASS ZONE MUST BE LEVEL WITH FOUNDATION BLOCKS
PROVIDE FOR INSTALLATION OF PROTECTION FENCE IN NO-PASS AREA FOR U 800 FAST MODEL ONLY

Notes :
