D5600

Steel cantilever sliding gate



6m
MAXIMUM SPAN*

100%
DUTY CYCLE

230V
MAINS SUPPLY

An automated steel gate with inverter-controlled drive, rack-and-pinion transmission and a comprehensive standard safety package. Configured around your entrance, infill and access requirements.

*Span, height and infill are interdependent. See the size qualification on page 3.

Technical basis: supplied D5600 sheet + manufacturer website

0113 403 5583 **enquiries@sentryautomation.co.uk** **sentryautomation.co.uk**

02 / ENGINEERING

Designed for movement. Built for daily use.

Steel cantilever construction

The gate uses a steel structure with a cantilever arrangement, avoiding a running track across the vehicle opening. The selected infill, gate dimensions and supporting structure must be coordinated as one assembly.

Inverter-driven motor and gearbox

A FEIG control system with inverter drives a three-phase motor from a single-phase supply. The manufacturer supplies the gate pre-wired and factory tested for connection to the mains supply.

Rack-and-pinion transmission

A worm gearbox drives the gate through a rack-and-pinion final transmission, with inverter control providing smooth travel and adjustable operating speed.

Eight-wheel polyamide rollers

The heavy-duty roller arrangement uses eight polyamide wheels. The supplied brochure states a carrying capability up to 600kg; this is a roller-system capability and does not establish the weight of every gate configuration.

LAYOUT IS PART OF THE DESIGN

Allow for the complete gate length, backrun, foundations, support posts, service access and protected travel zone. Use the generic drawings for coordination, then obtain an approved project-specific drawing.

Technical basis: supplied D5600 sheet + manufacturer website

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03 / TECHNICAL SCHEDULE

The specification. With clear size limits.

Gate type	Automated steel cantilever sliding gate.
Maximum span	6m.
Maximum height	3.5m, depending on span and infill. Confirm the selected combination.
Drive unit	Three-phase motor and worm gearbox with rack-and-pinion final drive; inverter controlled.
Mains supply	230V AC, 50Hz, 16A.
Opening / closing rate	Approximately 5 seconds per metre, adjustable.
Duty cycle	100% published duty-cycle rating.
Control	FEIG control system with inverter, pre-wired and factory tested.
Roller arrangement	Eight-wheel polyamide system; published carrying capability up to 600kg.
Standard protection	Category 3 safety edges, dual-height photocells, cabinet emergency stop, hold-to-run keyswitch and flashing beacon / sounder. The current website specifies six safety edges.
Optional feature	Customer-designed LED-backlit logo panels.

CONFIRM THE COMPLETE CONFIGURATION

Maximum span and height are subject to the selected infill and gate design. Obtain the approved project drawing for the actual gate dimensions, runback, foundation arrangement and safety-device positions.

Technical basis: supplied D5600 sheet + manufacturer website

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04 / SAFETY & FINISH

A coordinated system. A finish to suit the site.

Standard safety equipment

The published package includes six Category 3 safety edges, photocells at two heights, a cabinet-mounted emergency stop, a hold-to-run keyswitch and a flashing beacon / sounder. Final device locations and operating behaviour must suit the entrance and gate travel.

LED-backlit logo panels

Optional panels can be made to a customer-specific design. Energy-efficient LEDs illuminate the branding integrated into the gate structure; agree the artwork, panel dimensions, finish and electrical provision with the quotation.

Infill options

The supplied information lists vertical steel tubes, welded mesh and palisade, plus composite boarding and timber cladding. Bespoke sheet-steel panels can incorporate laser-cut logos or branding. Confirm compatibility, weight, wind exposure and finish for the proposed assembly.

Colour selection

The supplied brochure states that vertical-bar or sheet infill can be supplied in a standard RAL reference without an additional non-standard colour charge. Confirm the selected finish, colour and commercial allowance in the quotation.

DESIGN THE COMPLETE ENTRANCE

Coordinate access control, pedestrian routes, gate clearances and the protected runback area. The standard equipment list does not replace the assessment and commissioning of the installed gate.

Technical basis: supplied D5600 sheet + manufacturer website

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05 / PROJECT COORDINATION

From opening dimensions to an installed entrance.

Opening & handing	Clear opening width, required height, sliding direction, road levels and adjoining fence / wall interfaces.
Runback & access	Full retracted gate envelope, counterbalance tail, service clearances and vehicle swept paths.
Groundworks	Ground conditions, foundation design, reinforcement, fixing arrangements, ducts and drainage.
Power	230V / 50Hz / 16A supply provision; cable route, isolation and protective-device requirements.
Gate appearance	Infill type, transparency, RAL colour, branding and any anti-climb detail.
Operation	Traffic duty, opening rate, timed opening, access control, visitor calling and authorised user management.
Safety & interfaces	Edge / photocell positions, protected travel zone, emergency stop, signage and interface requirements.
Handover	Approved drawings, commissioning records, operating instructions and maintenance arrangements.

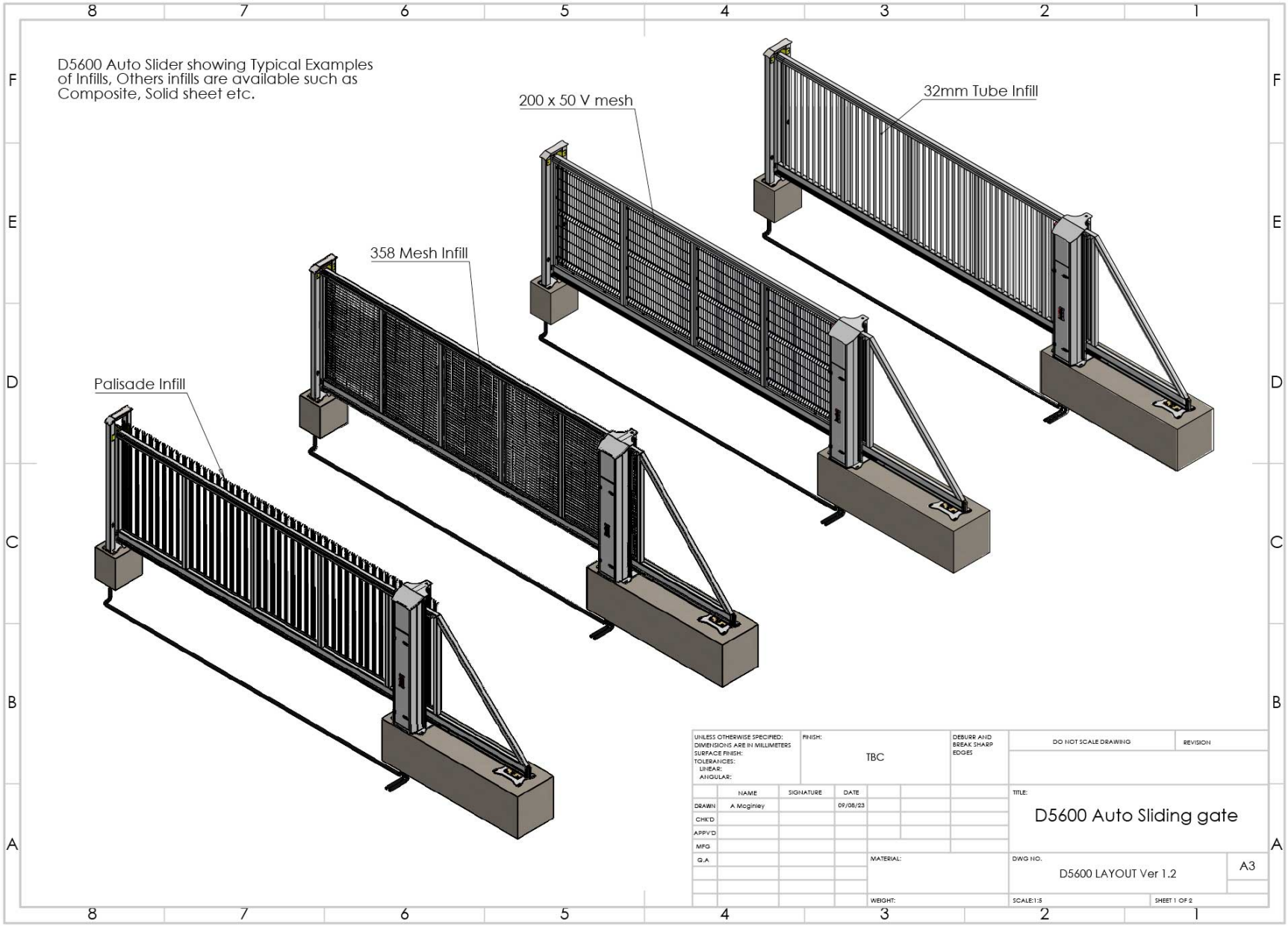
DRAWING NOTES

The following sheets reproduce manufacturer generic layout Version 1.2 for reference. They illustrate infill arrangements and generic foundation / clearance geometry. Do not scale them or use them as a project-specific civil or fabrication design.

SENTRY AUTOMATION / SUPPLY • INSTALL • MAINTAIN

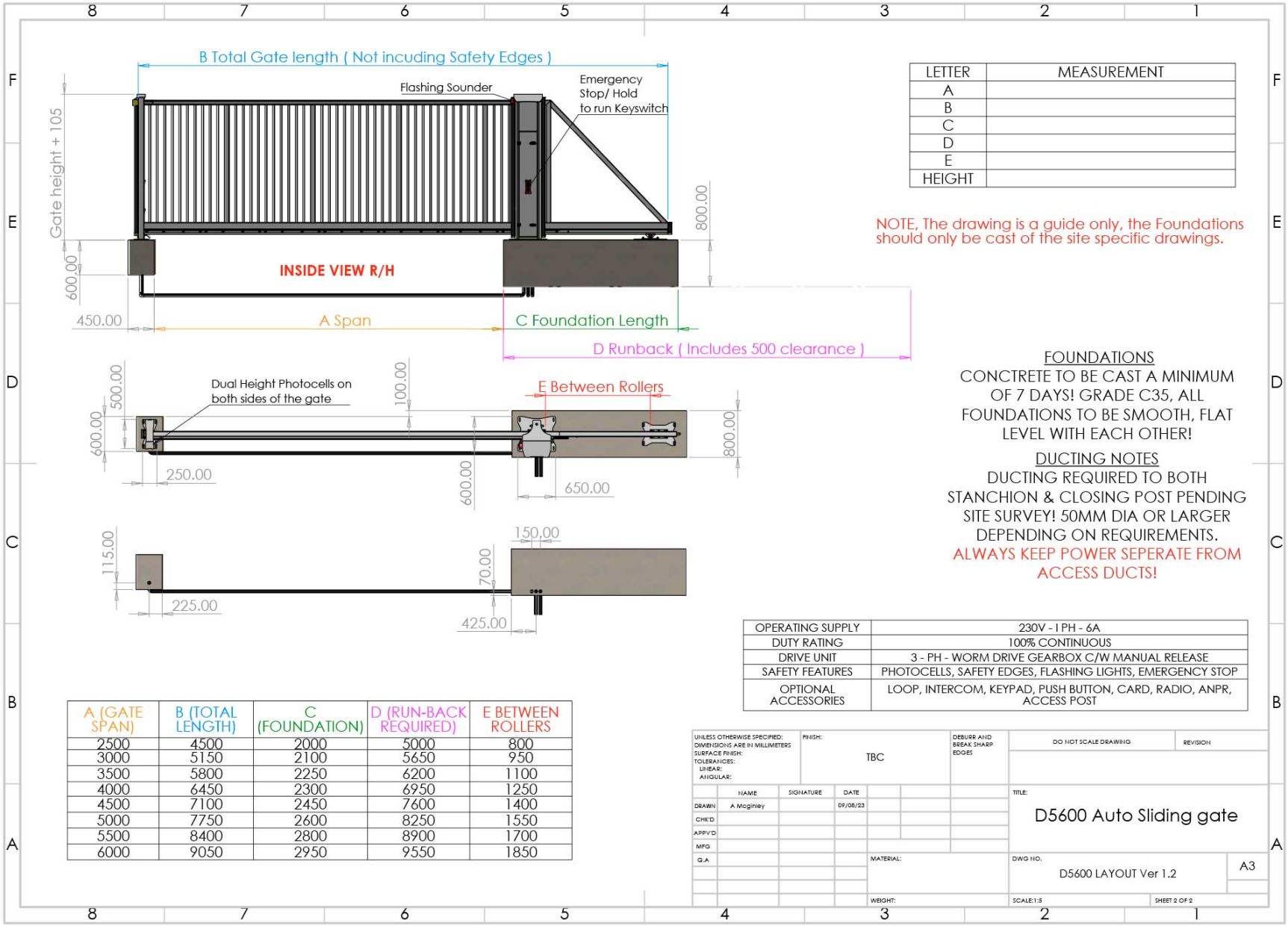
Technical basis: supplied D5600 sheet + manufacturer website

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Manufacturer generic drawing / D5600 LAYOUT Ver 1.2 / reference only. Confirm all geometry and foundations on the approved project drawing. Do not scale.

D5600 / GENERIC DIMENSIONS & FOUNDATIONS



LETTER	MEASUREMENT
A	
B	
C	
D	
E	
HEIGHT	

NOTE, The drawing is a guide only, the Foundations should only be cast of the site specific drawings.

FOUNDATIONS

CONCTRETE TO BE CAST A MINIMUM OF 7 DAYS! GRADE C35, ALL FOUNDATIONS TO BE SMOOTH, FLAT LEVEL WITH EACH OTHER!

DUCTING NOTES

DUCTING REQUIRED TO BOTH STANCHION & CLOSING POST PENDING SITE SURVEY! 50MM DIA OR LARGER DEPENDING ON REQUIREMENTS.
ALWAYS KEEP POWER SEPERATE FROM ACCESS DUCTS!

A (GATE SPAN)	B (TOTAL LENGTH)	C (FOUNDATION)	D (RUN-BACK REQUIRED)	E BETWEEN ROLLERS
2500	4500	2000	5000	800
3000	5150	2100	5650	950
3500	5800	2250	6200	1100
4000	6450	2300	6950	1250
4500	7100	2450	7600	1400
5000	7750	2600	8250	1550
5500	8400	2800	8900	1700
6000	9050	2950	9550	1850

OPERATING SUPPLY	230V - 1 PH - 6A
DUTY RATING	100% CONTINUOUS
DRIVE UNIT	3 - PH - WORM DRIVE GEARBOX C/W MANUAL RELEASE
SAFETY FEATURES	PHOTOCELLS, SAFETY EDGES, FLASHING LIGHTS, EMERGENCY STOP
OPTIONAL ACCESSORIES	LOOP, INTERCOM, KEYPAD, PUSH BUTTON, CARD, RADIO, ANPR, ACCESS POST

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:
FINISH: TBC
DEBURR AND BREAK SHARP EDGES
DO NOT SCALE DRAWING
REVISION

	NAME	SIGNATURE	DATE
DRAWN	A Mcginley		09/08/23
CHK'D			
APPV'D			
MFG			
Q.A			

MATERIAL:
WEIGHT:
TITLE: D5600 Auto Sliding gate
DWG NO. D5600 LAYOUT Ver 1.2
A3
SCALE:1:3
SHEET 2 OF 2

Manufacturer generic drawing / D5600 LAYOUT Ver 1.2 / reference only. Confirm all geometry and foundations on the approved project drawing. Do not scale.