

SELF-CLOSING SAFETY GATE SYSTEM

SINGLE & DOUBLE GATE-UNIVERSAL TYPE

- 1 Automatic Self-Closing Mechanism
- 2 Fully Adjustable Universal Design
- 3 Heavy-Duty Corrosion Resistant Construction



OVERVIEW:

This is a spring-loaded, self-closing safety gate system designed to provide permanent hazard protection at openings, ladder/stair access points, roof hatches, mezzanines, elevated walkways, and restricted areas requiring regular maintenance access. The gate automatically closes behind the user, eliminating reliance on human error.

The system is supplied fully assembled and requires only field mounting to an existing or new supporting structure. Both single and double gate configurations are available. The system is compatible with tubular guardrail posts and modular railing systems.



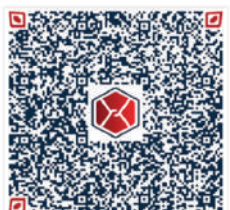
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APPLICABLE STANDARDS & CERTIFICATIONS

The standards listed below are those internationally recognised and applicable to projects in the Kingdom of Saudi Arabia (KSA) and the wider Gulf market. Project engineers must verify acceptance against the governing project specification, SBC, and the relevant authority having jurisdiction.

Category	Standard / Requirement
Edge protection	EN 13374 Class A — temporary edge protection systems
Fixed access / guardrails	EN ISO 14122 Parts 3 & 4 — permanent means of access to machinery
Life-cycle testing	BS 6375-2:2009 Clause 6.5 — opening & closing through 90°
Salt-spray testing	ASTM B117 — neutral salt-spray; coating corrosion resistance
Tube material	EN 10255 — steel tube; hot-dip galvanized to BS EN ISO 1461
Tube material (alt.)	ASTM A53 — galvanized steel pipe
Powder coat	EN 13438 / AAMA 2603-2605 — applied over galvanized substrate

PRODUCT RANGE & CONFIGURATIONS

3a. Gate Types

Item	Description
Single Gate — Universal	Fits all openings; field-adjustable on site / cuttable to exact size. Max opening 1,000 mm (39.4 in)
Double Gate	Two spring-loaded leaves for wide openings up to 1,800 mm (70.86 in). Each leaf independently adjustable
Supply state	Supplied fully assembled — mounting only required on site
Finish options	Hot-dip galvanized steel OR Safety Yellow powder coat
Compatible structures	Mounts to new or existing tubular, square, flat, or angle uprights/stringers via U-bolt fixing pack



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3b. Single Gate-Model Range

Part No.	Nominal	Min (mm)	Mid (mm)	Max (mm)	Weight (kg)
SG018GV / PC	457 mm	418	457	508	16.8
SG021GV / PC	533 mm	494	533	584	17.2
SG024GV / PC	610 mm	570	610	660	17.5
SG027GV / PC	686 mm	647	686	737	17.9
SG030GV / PC	762 mm	723	762	813	18.3
SG033GV / PC	838 mm	799	838	889	18.6
SG036GV / PC	914 mm	875	914	965	19.0
SG040GV / PC	1016 mm	977	1016	1067	19.4
SG048GV / PC	1219 mm	1180	1219	1270	20.3

GV = Galvanized · PC = Powder Coated. Each model is field-adjustable ± 38 mm (1.5 in) without cutting.

3c. Single Gate Models (Standard)

Part No.	Description
SG500GV	Single gate — galvanized. Steel to EN 10255, 33.7 mm OD $\times$ 3.2 mm wall. Net weight 11 kg (24 lb 4 oz). Complete with fixing pack
SG500PC	Single gate — powder coated (EN 13438). Steel to EN 10255, 33.7 mm OD $\times$ 3.2 mm wall. Net weight 11 kg. Complete with fixing pack





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3d. Double Gate Models

Part No.	Description
SGDBGV	Double gate — galvanized. Steel to EN 10255, 33.7 mm OD × 3.2 mm wall. Net weight 25 kg (55 lb 12 oz)
SGDBPC	Double gate — powder coated (EN 13438). Steel to EN 10255, 33.7 mm OD × 3.2 mm wall. Net weight 25 kg

TECHNICAL SPECIFICATIONS

4a. Structural & Dimensional Data

Parameter	Value
Gate mechanism	Spring-loaded return hinge — automatic self-closing behind user
Installed height	1,100 mm (43.3 in) above finished floor; subject to project / SBC requirements
Single gate max opening	Up to 1,000 mm (39.4 in); adjustable ± 38 mm on site
Double gate max opening	Up to 1,800 mm (70.86 in) combined
Internal gap — top to bottom rail	466 mm (18.35 in)
Guardrail centre-to-centre	500 mm (19.69 in)
Pipe OD — project specification	42 mm OD (project-specified; supersedes manufacturer standard)
Pipe OD — manufacturer standard	33.7 mm OD × 3.2 mm wall thickness (EN 10255)
U-bolt post compatibility	33.7 mm, 42.4 mm, 48.3 mm diameter posts
Clamp post range	33.7 mm to 48.3 mm — flat, square, or tubular stringers



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4b. Unit Weights Summary

Configuration	Finish	Weight (kg)
Single Gate — Standard	Galvanized / Powder Coat	11.0
Single Gate — 1016 mm	Galvanized / Powder Coat	19.4
Single Gate — 1219 mm	Galvanized / Powder Coat	20.3
Double Gate	Galvanized / Powder Coat	25.0

MATERIALS & SURFACE FINISH

Element	Specification
Tube — standard	Steel to EN 10255; 33.7 mm OD × 3.2 mm wall (project: 42 mm OD)
Tube — alternative	Galvanized steel to ASTM A53
Stainless steel option	Grade 316 stainless steel
Galvanized finish	BS EN ISO 1461 — hot-dip galvanized; average coating 55–100 microns
Powder coat	EN 13438 / AAMA 2603-2605; Safety Yellow; applied over galvanized substrate
Cast clamps	Corrosion-protective coating applied to all tapped holes
Grub screws	Carbon steel with corrosion-protective coating — minimal maintenance
Cut tube treatment	Zinc-rich paint applied to all field-cut tube ends on galvanized assemblies
Indoor / outdoor	Suitable for both; life-cycle and salt-spray tested



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FIXING PACK SCHEDULE

Part No.	Gate Type	Post Sizes	Contents	Net Weight
SGFXPK1	Single	33.7, 42.4, 48.3 mm	3 No. U-bolts per size + M8 & M10 nuts & washers	0.864 kg
SGFXPK2	Double	33.7, 42.4, 48.3 mm	3 No. U-bolts per size + M8 & M10 nuts & washers	1.30 kg

All fixing packs: material — galvanized steel to BS EN ISO 1461. Additional packs available for square, flat, and angle uprights.

STRUCTURAL LOADING DATA

Loading values below are internationally recognised reference standards applicable to KSA/ Gulf projects. Project engineers must verify the governing design loads against the project specification and SBC.

Requirement	Value
EN 13374 Class A	Tested and compliant — temporary edge protection
EN ISO 14122 Parts 3 & 4	Tested and compliant — permanent access guardrails
Life-cycle test	BS 6375-2:2009 Cl. 6.5 — gate opened/closed through 90° repeatedly
Salt-spray test	ASTM B117 — coating corrosion resistance confirmed

Note: The structure to which the gate is attached must be rigid, non-rotating, and independently verified by the project engineer.



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APPLICATION SUITABILITY & COMPATIBILITY

Application	Suitability
Indoor	Yes — mezzanines, manufacturing floors, warehouses, plant rooms, data centres
Outdoor	Yes — rooftops, loading docks, stair/ladder access, elevated walkways, tank farms
Retrofit	Specifically designed as a retro-fit solution; mounts to existing fixed structures
Compatible systems	Mounts to standard modular tubular railing systems; compatible with mobile and static access platforms
Pitched roof install	Requires 4 No. standard 90° elbows per gate to maintain vertical gate orientation on pitched substrates
Post section types	Round tubular, square, flat, and angle sections — see fixing pack schedule (Section 6)