

Gate Safety

THE SOLUTIONS



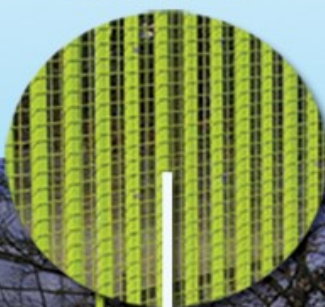
In recent months unsafe installations of Sliding Gates by other manufacturers have caused accidents resulting in tragic fatalities.

At Frontier Pitts, we highly recommend the following safety features are fitted to your gate, to ensure that the sliding gate is installed and operated in accordance with the Workplace (Health, Safety and Welfare) Regulations 1992, BS EN 12453:2001 and BS EN 13849-2:2008, to alleviate the dangers associated with sliding gates.

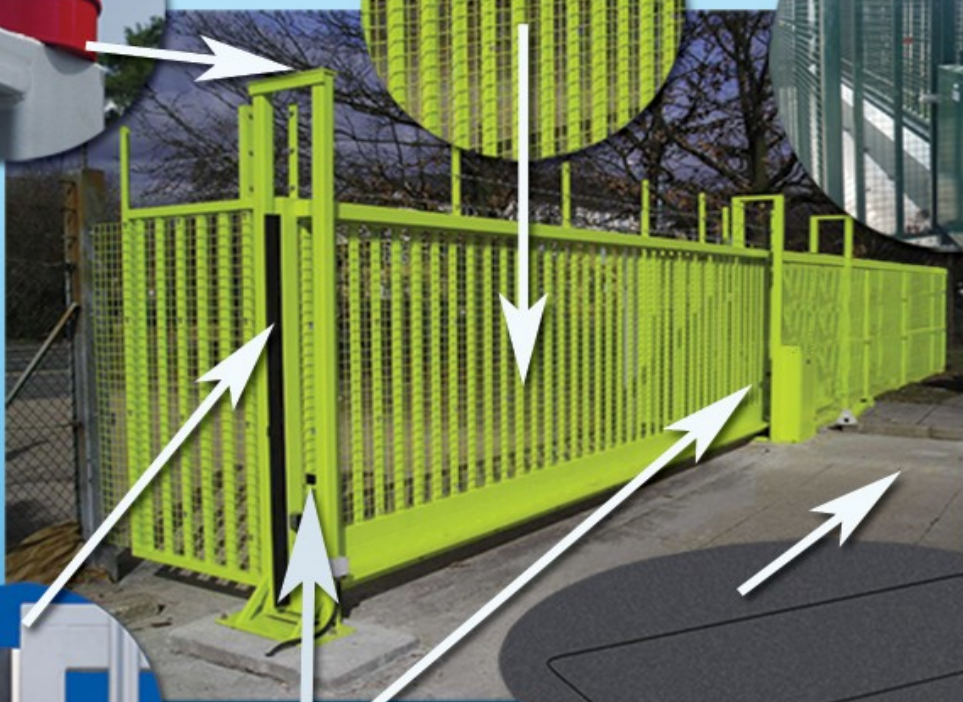
Audible Alarm or Flashing Beacon



Weldmesh Infill



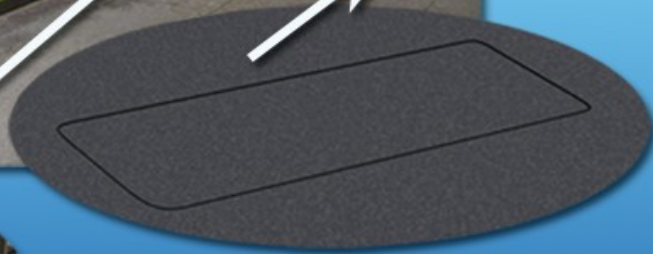
Pedestrian Guard Rail



Safety Edges



Safety Photocells



Vehicle Detector Safety Induction Loops



Gate Safety

THE DANGERS



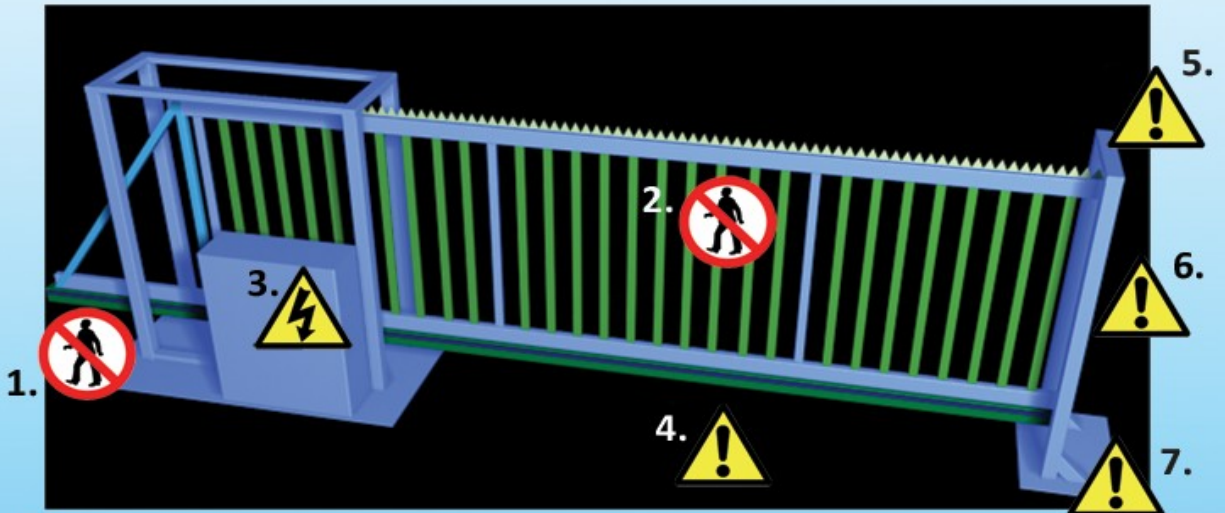
WARNING



NO PEDESTRIANS



ELECTRICAL WARNING



1. No Pedestrian Access - A Pedestrian Guard Rail (fence panels) should be fitted around the runback area of the sliding gate. This is to prevent serious injury to a person should they stray into that area whilst the gate is operating.
2. No Pedestrian Access - Pedestrians should not put their limbs through the bars of the gate. Weldmesh infill should be clipped to the gates infill bars.
3. Electrical Warning - Awareness needs to be given to the Sliding Gate's Electrical Control Cabinet
4. Warning - Vehicle Detector Safety Induction Loops - loops cut into the road surface. This will prevent the gate from closing on a vehicle within the aperture.
5. Warning - Audible Alarm and/or flashing beacon required to provide an audible or visible warning that the gate is in operation.
6. Warning - Safety Photocells. An infra-beam which spans the aperture of the gate opening. If an object breaks this beam, the gates will stop & back off. Usually two pairs of photocells are fitted at 500mm & 700mm.
7. Warning - Leading edge of gateleaf. Safety Edges should be fitted to leading edge of the gate. Safety edges prevent the gate closing on a person or vehicle in the event the gate is activated. Safety edges are flexible strips which are fixed to the edge of a gate where there is a risk of a crushing or shearing hazard. If the safety edge is depressed a signal is sent to the power source to stop. Additional safety edges can be mounted to the internal & external motor posts.

**SLIDING GATES ARE NOT DESIGNED FOR PEDESTRIAN USE &
ALTERNATIVE PEDESTRIAN ACCESS SHOULD ALWAYS BE PROVIDED.**

Other applicable BS standards:

- BS EN 12453 Industrial doors and gates; Safety in use of power operated doors - Requirements
- BS EN 12445 Industrial doors and gates; Safety in use of power operated doors - Test Methods
- BS EN 12604 Industrial doors and gates; Mechanical Aspects - Requirement
- BS EN 12605 Industrial doors and gates; Mechanical Aspects - Test Methods
- BS EN 13849 Safety of Machinery - Safety-related parts of control systems. General principles for design