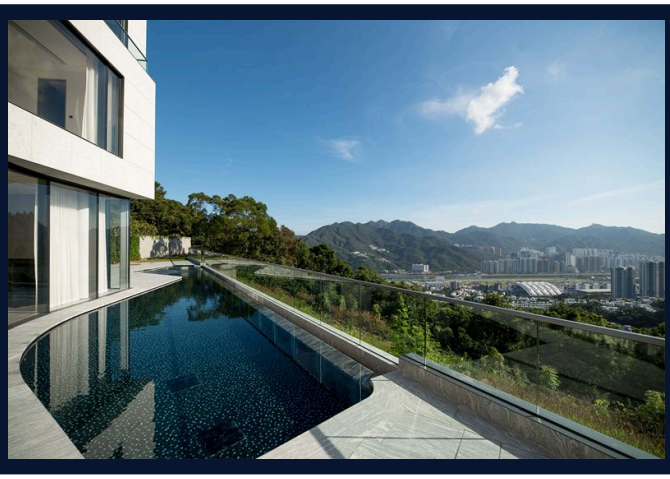
STRUCTURES & INTERIORS · GLASS BALUSTRADES AND WALLS

D-Glass

L6 Layer · The building

Turns a glass balustrade or glass wall into an intrusion detection system, without adding a single bar to the view.



KEY BENEFITS

01 **Security you cannot see**
The detection is inside the capping or posts; the glass stays clear.

02 **Alarms on climbers, not on guests**
A climber's weight alarms; a hand on the rail does not.

03 **Designed with the architect**
Capping material and profile are chosen to match the building.

HOW IT WORKS

01 **Glass sensor**
Strain-gauge sensors in the capping or in the posts between the panels.

02 **Climb or break**
Weight on the capping or force on a panel changes the load the sensor reads.

03 **Controller**
The alarm leaves as a dry contact or RS232 / RS485 message.

04 **Local trigger**
Cameras, siren and floodlight react on site.

SPECIFICATIONS

Installation	On top of the glass balustrade (sensors in a metal capping) or on the sensor posts between the glass panels
Detects	Climbing over the balustrade; breaking the glass panels
Nuisance immunity	Touching or leaning on the capping does not trigger an alarm
Capping materials	Stainless steel, aluminium alloy, metal coating (stone listed in the D-Fence Brochure)
Capping design	Customised to the project
Detection force (residential range)	Standard 25 kg
Length of detection zone (residential range)	Max. 60 m
Processing unit (residential range)	Max. 16 sensors
Dry contact (residential range)	N.O. & N.C., 1A@12VDC
Power supply (residential range)	105mA@12VDC

05 **Notification**
The phone app, the control room and D-Command Control receive the event.

Communication output	RS232 / RS485
Operating temperature	+72 °C to –25 °C (162 °F to –13 °F)
Humidity	> 95%
Protection standards	MIL-T-152 anti-corrosion; MIL-STD-9094 transients; MIL-STD-461, 462 EMI / RFI
False alarm rate (catalogue)	Less than 1 per km per 3 months
MTBF	4.7 × 10⁸ h

TENDER SPECIFICATION TEXT

1. GENERAL

The system shall be D-Glass by D-FENCE Electronic Fencing and Security Systems Ltd. (ISO 9001:2015 certified quality management), or an approved equivalent that meets every requirement in this section.

2. FUNCTION

Turns a glass balustrade or glass wall into an intrusion detection system, without adding a single bar to the view.

3. THE SYSTEM SHALL PROVIDE

- **Two ways to fit:** Sensors in the posts between the glass panels, or inside a metal capping on top of the glass.
- **Climb and break:** Alarm when an intruder climbs over the balustrade or breaks the glass panels.
- **Leaning is not an alarm:** Touching or leaning on the capping does not trigger it.
- **Capping to your design:** Stainless steel, aluminium alloy or metal coating; exterior design customised.
- **Terraces to museums:** Balconies, terraces, pool fences, glass walls, museums and galleries.
- **Integrates:** Dry contact and RS232 / RS485 into alarm panels, CCTV, lighting and D-Command Control.

4. TECHNICAL REQUIREMENTS

- **Installation:** On top of the glass balustrade (sensors in a metal capping) or on the sensor posts between the glass panels
- **Detects:** Climbing over the balustrade; breaking the glass panels
- **Nuisance immunity:** Touching or leaning on the capping does not trigger an alarm
- **Capping materials:** Stainless steel, aluminium alloy, metal coating (stone listed in the D-Fence Brochure)
- **Capping design:** Customised to the project
- **Detection force (residential range):** Standard 25 kg
- **Length of detection zone (residential range):** Max. 60 m
- **Processing unit (residential range):** Max. 16 sensors
- **Dry contact (residential range):** N.O. & N.C., 1A@12VDC
- **Power supply (residential range):** 105mA@12VDC
- **Communication output:** RS232 / RS485
- **Operating temperature:** +72 °C to –25 °C (162 °F to –13 °F)
- **Humidity:** > 95%
- **Protection standards:** MIL-T-152 anti-corrosion; MIL-STD-9094 transients; MIL-STD-461, 462 EMI / RFI
- **False alarm rate (catalogue):** Less than 1 per km per 3 months
- **MTBF:** 4.7 × 10⁸ h

5. DETECTION SEQUENCE

1. **Glass sensor:** Strain-gauge sensors in the capping or in the posts between the panels.
2. **Climb or break:** Weight on the capping or force on a panel changes the load the sensor reads.
3. **Controller:** The alarm leaves as a dry contact or RS232 / RS485 message.
4. **Local trigger:** Cameras, siren and floodlight react on site.
5. **Notification:** The phone app, the control room and D-Command Control receive the event.

6. SUBMITTALS

Before installation, the contractor shall submit the manufacturer's datasheet, the installation instructions and the zone layout for approval.