



Tea, Coffee and break

Back at 15:10

Pete Davies



Compliance Made Easy

Innovation @ Fireco: Fire Safety That Listens

How Customer Led Innovation Shaped Our Journey



Compliance Made Easy

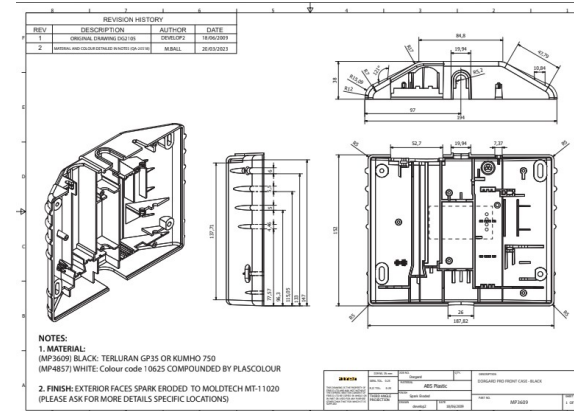
The Fireco Ethos: Compliance Through Innovation

- Founded on innovation and compliance
- Listening to customer needs
- Designing for accessibility, safety, and simplicity



Where It All Started: The Dorgard Story

- The problem: wedged fire doors
- The idea: automatic release on fire alarm
- The result: safer, more accessible buildings



Deafgard - How Dorgard helped the hearing impaired

- Designed in collaboration with hearing impaired people
- Helps with Equality Act Compliance
- Quickly became a staple of the hotel industry



Case Study: Meet Fiona

Meet Fiona

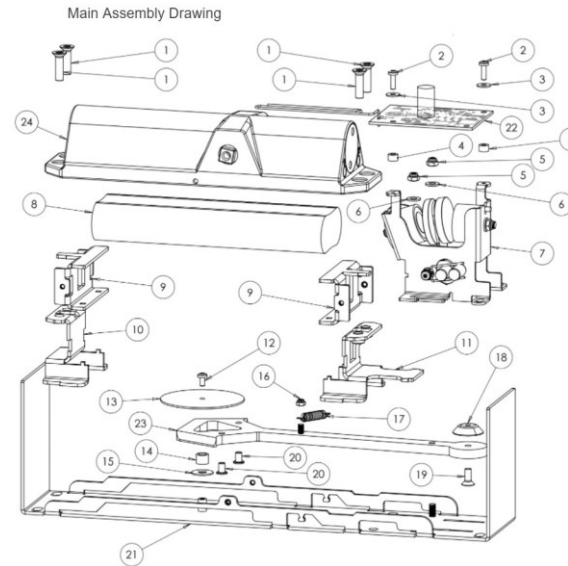


- Fiona has been profoundly Deaf from a young age
- Booked a hotel in Perth for a family wedding
- Contacted the hotel 3 months prior to check-in asking for an accessible fire alarm solution
- None was provided
- Fiona was reassured that a staff member would come to her room to help her evacuate if necessary
- Fiona was not evacuated when the fire alarm went off at 7AM the next morning
- It wasn't until 8AM that her parents, also staying at the hotel, realised she wasn't at the muster point
- Fiona was woken shortly after by her Mum, the hotel manager and the commander of the fire brigade
- A member of staff *had* come to her room during the evacuation, but, failing to see Fiona due to low lighting, simply shouted 'FIRE! FIRE!' before being distracted by other guests needing assistance

When is a fire alarm not a fire alarm?

Freedor: Freedom to Move Safely

- Built on Dorgard success
- Free-swing closer with sound activation
- Designed for accessibility & independence



Case Study: City of London Corporation



Over 1500 Freedom installed across the City's housing estate

SmartSound: Listening Better

- Addressing false activations
- Fast Fourier Transform (FFT) sound analysis
- Reliability in complex environments



Case Study: Housing 21 – SmartSound Reliability in Care Environments

- Reducing false activations in a busy care home
- Helped residents to tackle heavy bedroom doors
- Staff confidence in fire door compliance



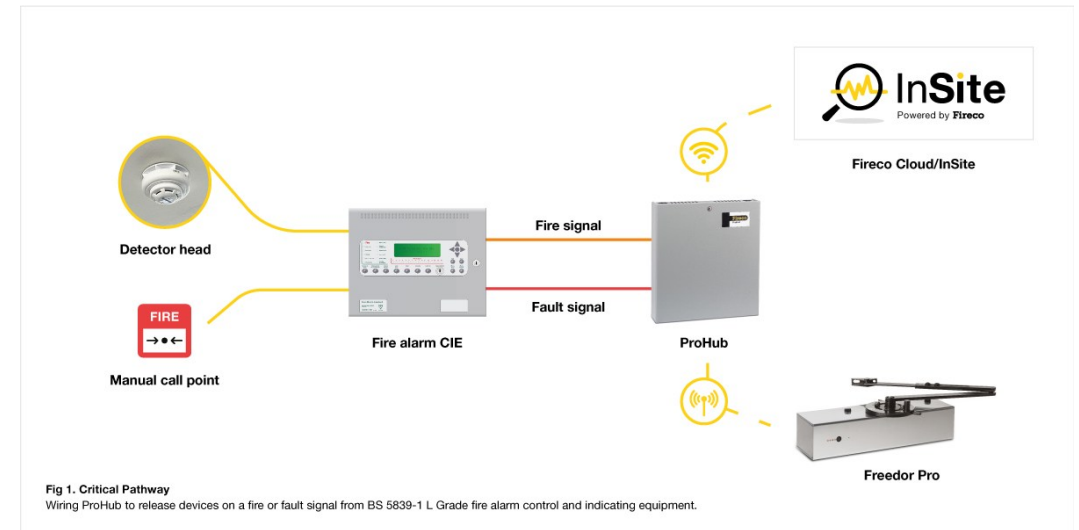
Granville Court



Residents are now empowered by easy access to their rooms

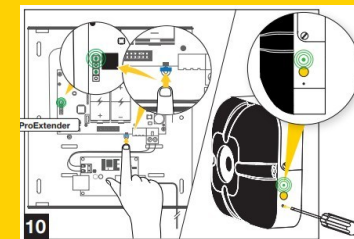
The Pro Range: Hardwired compliance - cable free installations

- Standalone devices → networked systems
- Highest levels of compliance
- Simplified maintenance via InSite
- Door retainment and Mass Notification in one system



Case Study: Portsmouth Hospitals NHST - Pro range for highest levels of compliance

- Doors on acute wards were being wedged open
- Cost of a fully hardwired system was prohibitive
- One of the first large scale Pro installations by Fireco
- Requirements for relevant guidance (HTM05-02) met



Patients can be monitored without risking safety



Compliance Made Easy

The IoT & Site Manager: Easy Maintenance

- Hundreds of doors monitored remotely
- Fault detection
- Significant reduction in manual inspections



Door Timer
Fireco Grange

Weekly Schedule		
Weekdays	Weekend	Other
Mon-Fri	Sat-Sun	Other

Fireco Grange Road

CONNECTED Updated: 2021-10-20 15:05:23
Timezone: Europe/London

Devices						
Image	Device	Name	Serial no	Alert	Fire	
	ProHub	Fireco Grange	DCA6322729C9	No Alert	No Fire	
Image	Product	Name	Serial no	State	Radio up	
	Dorgard Pro	Ground Floor - Reception LH door	4F9-H3J		-35dBm CH1	
	Dorgard Pro	Ground Floor - Reception RH door	S7Z-HZW		-42dBm CH1	
	Dorgard Pro	Ground Floor - Electronics lab RH door	WP1-SFD		-46dBm CH1	
	Dorgard Pro	Ground Floor - Electronics lab LH door	WSX-PKQ		-52dBm CH1	
	Dorgard Pro	Ground Floor - Mechanical lab door	9J7-QH1		-55dBm CH1	
	Dorgard Pro	Ground Floor - E				

Fireco Development

ProHub units						
Status	Name	Device	Serial Number	Alert	Fire	Power
	Andy's test EMS	EMS	882709F01046	No Alert	No Fire	N/A
	Andy's test ProHub	ProHub	SCA632208706	No Alert	No Fire	21.40V
	Charlie's test ProHub	ProHub	SCA632207946	No Alert	Fire	22.00V
	Dean's Development System	ProHub	SCA632209026	No Alert	No Fire	22.00V
	Dean's test ProHub	ProHub	SCA632209282	No Alert	No Fire	22.00V

-48 dBm CH3	-48 dBm CH3	2.17V

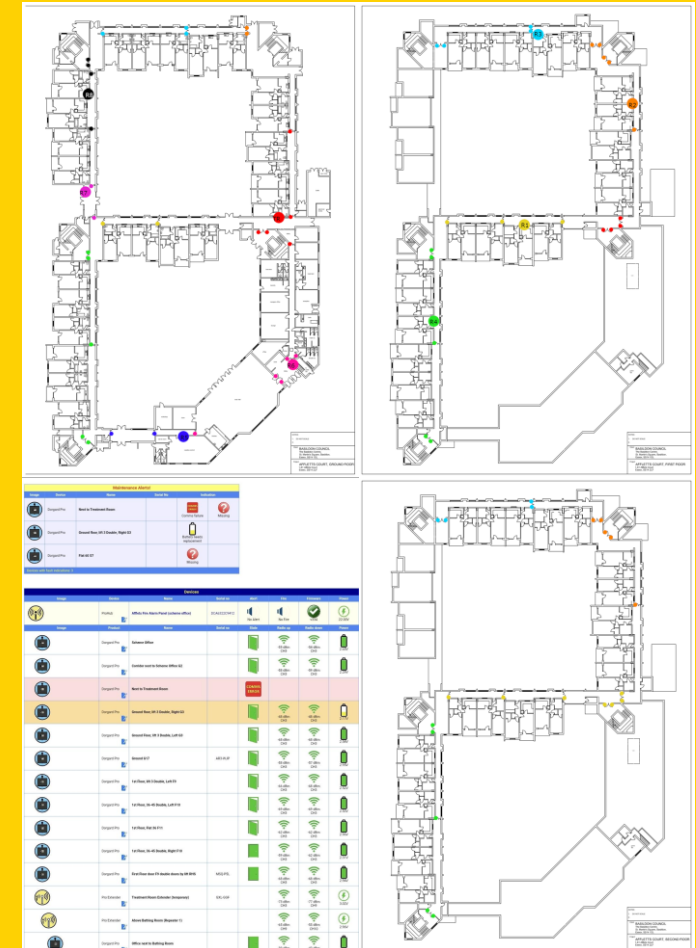
Maintenance Alerts!				
Image	Device	Name	Serial No	Indication
	Freedor Pro	Ground Floor - Wayne's RH door	8UJ-TRC	 Missing

	Repeater	Flat 37 (Repeater 16)	1256825		-79dBm CH3	-81dBm
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Case Study: How Customers Improved maintenance with Site Manager

- Large Pro Range installation
- Corridor doors creating a nuisance
- Client had concerns around device management
- Site Manager was deployed to bolster 'boots on the ground'
- 79 Dorgard Pro across corridor doors (1 ProHub, 10 ProExtenders)

Basildon Council - Affletts Court



Case Study: How Customers Improved maintenance with Site Manager

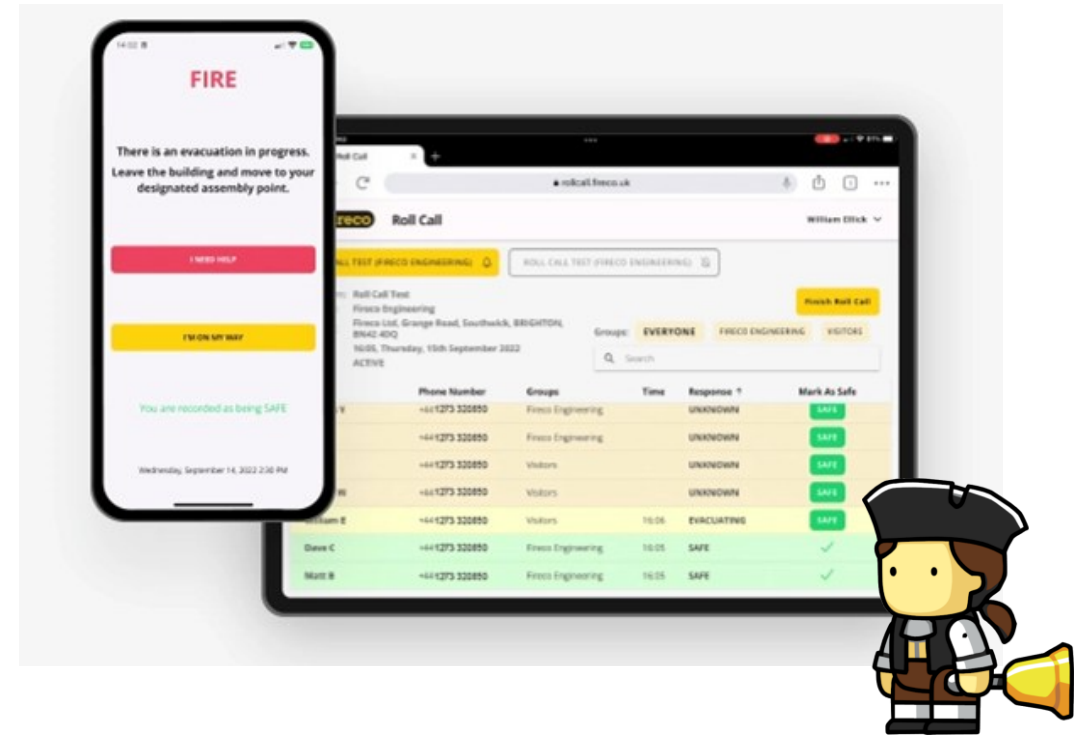
- Various sheltered schemes across the IoW
- Residents struggling to get into homes. Freedor Pro chosen as the solution
- Client wanted the ability to monitor the sites live from mainland
- Helped identify issues with RF signal as changes were made to the building
- 208 Freedor Pro, 135 DorMag Pro, 12 ProHubs, 40 ProExtenders over 11 sites



Sovereign Housing Group - Isle of Wight

Modern Day Town Crier - Digital Messaging Service (DMS)

- Instant alerts for fire alarms
- Notify / roll call thousands in one go
- Keep relevant stakeholders informed
- Takes advantage of our obsession with mobiles
- Fire alerts, lockdowns, additional equipment monitoring



Case Study: City of London Corporation



How collaboration influenced design

Case Study: City of London Corporation

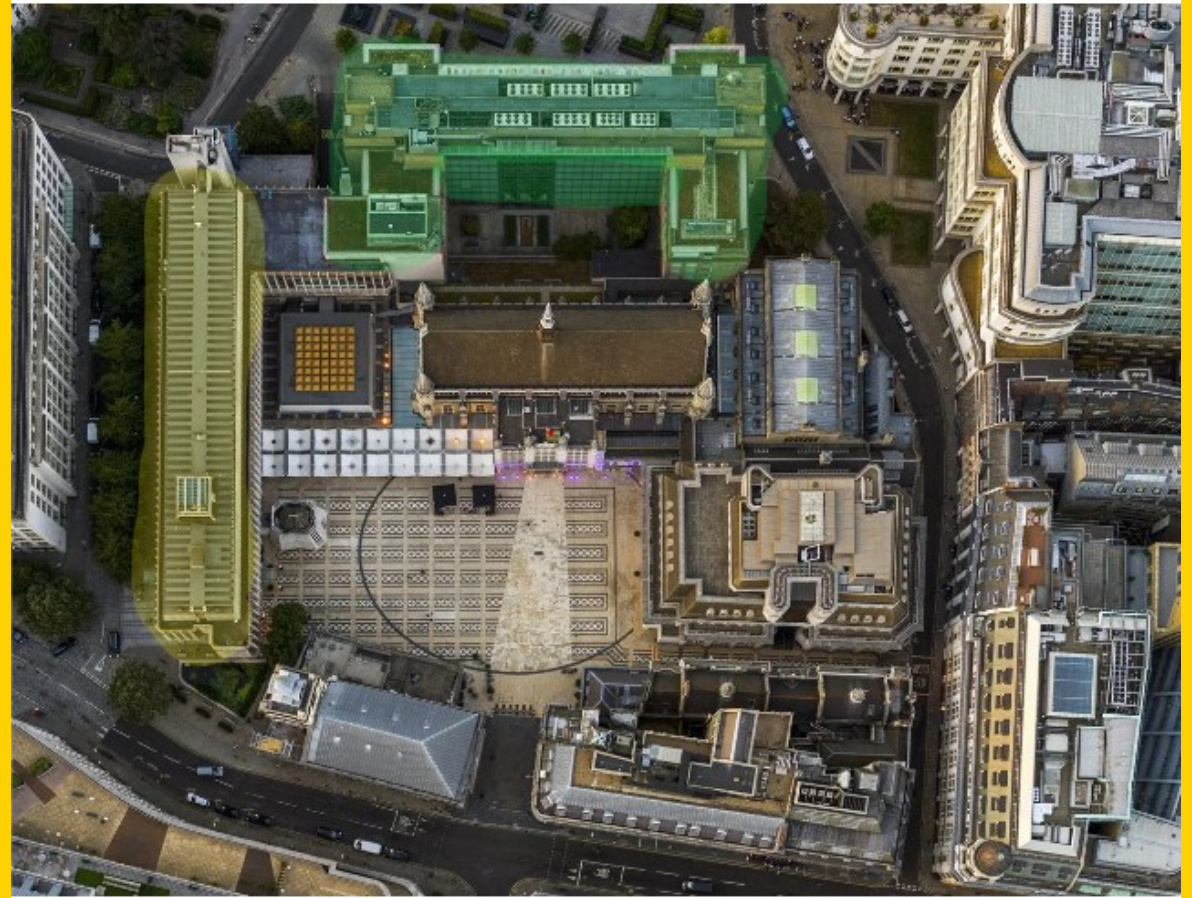
- West Wing



How collaboration influenced design

Case Study: City of London Corporation

- West Wing
- North Wing



How collaboration influenced design

Case Study: City of London Corporation

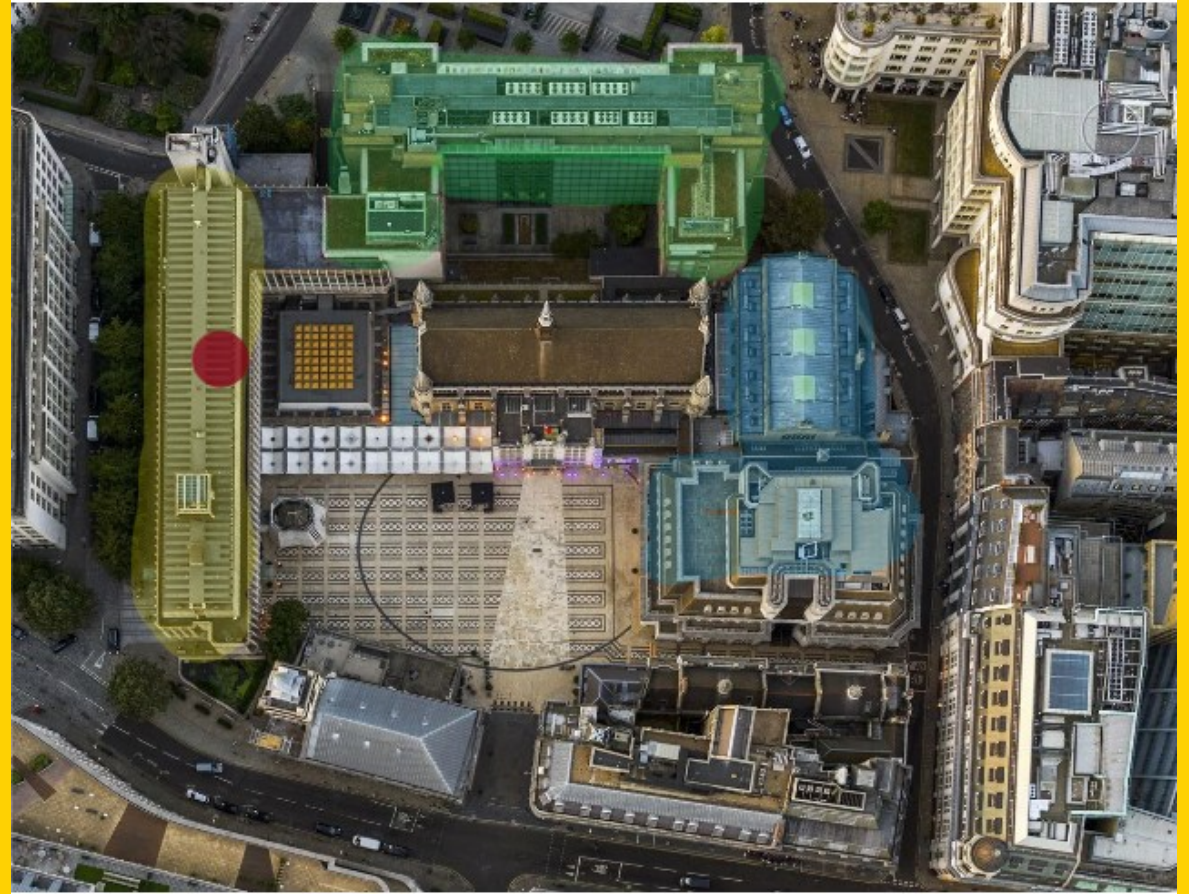
- **West Wing**
 - **North Wing**
 - **Guildhall Art Gallery**
- Main alarms** send messages out to those who have registered and to advise appropriate evacuation.



How collaboration influenced design

Case Study: City of London Corporation

- **West Wing**
 - **North Wing**
 - **Guildhall Art Gallery**
 - **Pre-alarm**
- Main alarms** send messages out to those who have registered and to advise appropriate evacuation.
- Pre-alarm** - notifies select members of staff, including fire wardens, visitors, pregnant women and people with mobility issues.



How collaboration influenced design

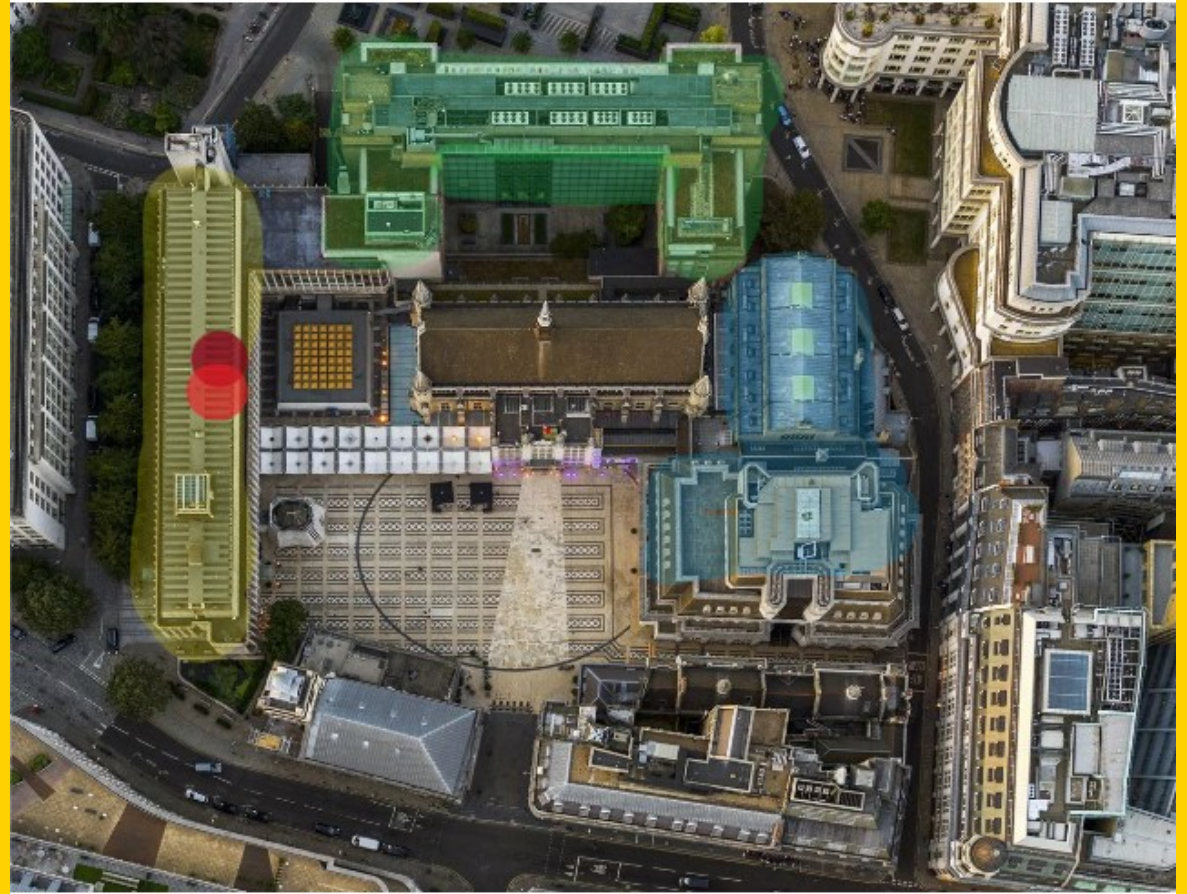
Case Study: City of London Corporation

- **West Wing**
- **North Wing**
- **Guildhall Art Gallery**
- **Pre-alarm**
- **Invac**

Invac is activated by push button. This advises all to evacuate into the basement.

Main alarms send messages out to those who have registered and to advise appropriate evacuation.

Pre-alarm - notifies select members of staff, including fire wardens, visitors, pregnant women and people with mobility issues.



How collaboration influenced design

Case Study: City of London Corporation

Muster Points

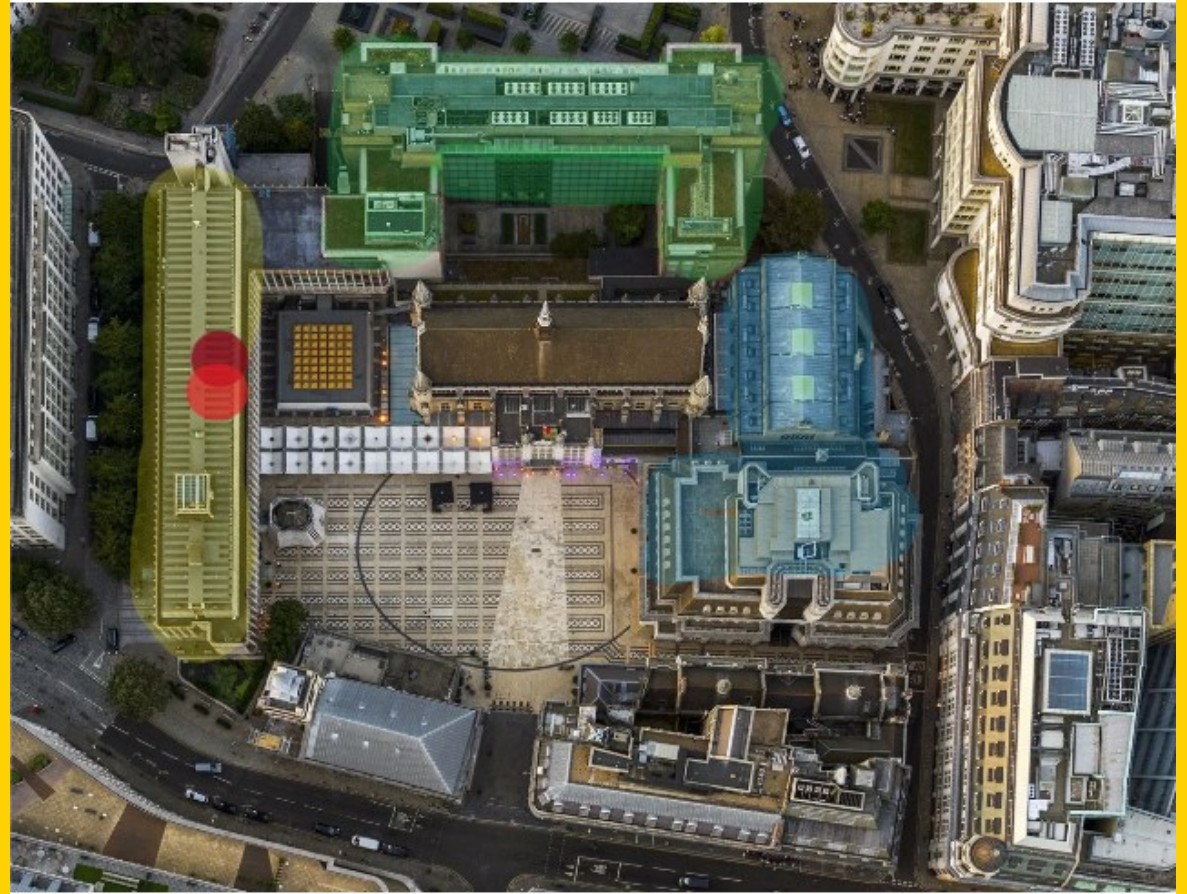
Disadvantages:

- Risk of terrorism
- Inappropriate proximity to buildings

Solution: Evacuate and Disperse

But how do people know it's safe to return?

How collaboration influenced design





Compliance Made Easy

Customer-Led Innovation: The Fireco Way

- Listening to real-world problems
- Iterative product development
- Solutions shaped by user needs
- Friends of Fireco



Product Compliance & Testing

- CE/UKCA marking
- BS EN standards (e.g., BS EN 1155, 1634-1)
- Independent third-party testing



MANUFACTURED TO COMPLY WITH BS EN 1155:1997

The European Standard EN 1155:1997 has the status of a British Standard.

Manufacturer's Classification:-

As Required By BS EN 1155:1997

Power Consumption:- 3V 1W

ID of Certification Body:- 1121

MODEL:- 1328-A01

SERIAL NO:-

For DoP see www.dorgard.com

3	5	3 to 7	1	1	0
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MADE IN THE UK

MANUFACTURED DATE:-



v5.2



Product Compliance & Testing

BS 7273-4:2022(+A2:2023)

- RRFSO guides suggest a risk assessed approach
- Risk assessment can be married with the guidance in 7273-4 to find the most appropriate solutions

In the absence of a risk assessment, Annex B, table B1 offers detail on what level of compliance might be required

Clause 4.1.4 - “If the designer is not informed as to the category of actuation required, the designer should select the category of actuation from Annex B and should make clear, to the purchaser or their agent, the category of actuation that the designer proposes.”



Product Compliance & Testing

BS 7273-4, Clause 7 - Methods of actuation

Critical Category (Formally Category A) – Hard wired devices linked directly to fire alarm. This system is intended for high risk doors.

Standard Category (Formally Category B) – This system is intended for normal risk doors and includes acoustically actuated devices.

Indirect Category (Formally Category C) – This system is intended for low risk doors.



Product Compliance & Testing

BS 7273-4, Clause 7 - Methods of actuation

Release mechanisms should respond (i.e release the door) to the following;

- Signal from the fire alarm system (manual call point or AFD)
- Fault signals from the fire alarm CIE
- Electrical power failures



Product Compliance & Testing

Understanding Variations - BS 7273-4, Clause 6

Change from 'deviation' to 'variation'

Clarity of intent

Regulatory Flexibility

Legal and compliance precision

Consistency with other standards



Product Compliance & Testing

Understanding Variations - BS 7273-4, Clause 6

Variations should be;

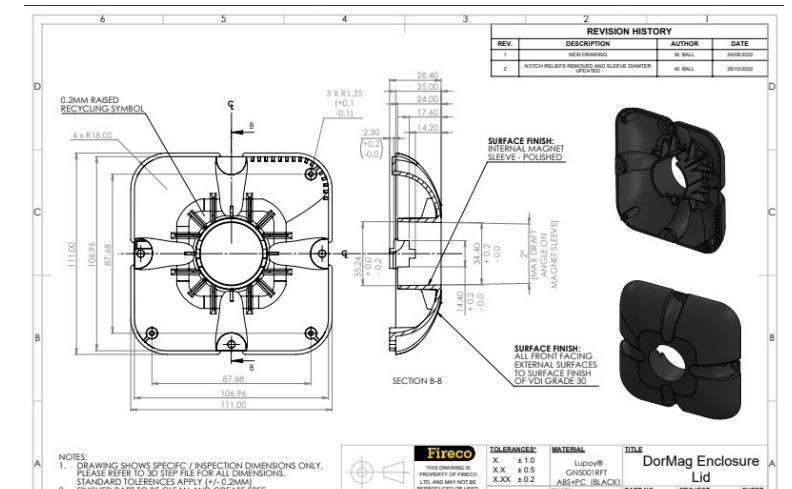
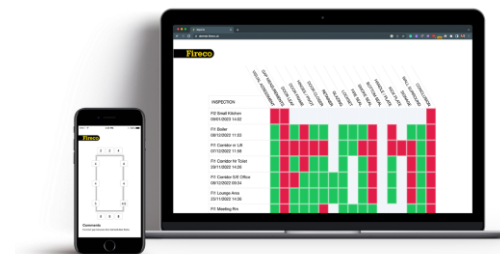
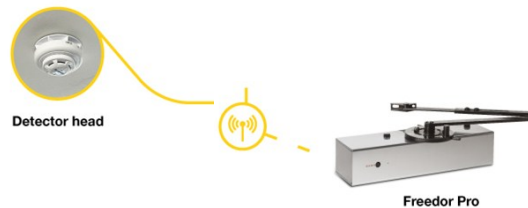
- risk assessed
- noted clearly in specification OR clearly noted during installation
- detailed on Commissioning Certificate

Agreement from all relevant parties



Looking Ahead: The Future of Fireco Innovation

- NEW - DorMag
- NEW - DorTrak
- NEW - Door Packages (door sets with Fireco products)
- UPCOMING - Product Name TBD





Compliance Made Easy

We can show you: Seeing is Believing

- Discover practical innovation in action
- Arrange a site demonstration
- Support your compliance & maintenance goals
- HQ visits

Ever wondered
what goes on
behind the **doors**
at Fireco?

Swipe for a sneak peek into our HQ



Summary

- Innovation starts with listening to customer needs
- Compliance and testing are never compromised
- Technology evolves to make life safer and simpler
- Practical solutions save time, reduce risk, and improve accessibility



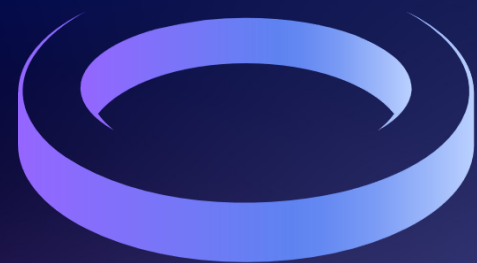


Compliance Made Easy

Q&A

- Questions & discussion
- Contact info: www.fireco.uk / pete.davies@fireco.uk

Ged Moore



auro

by harmony[®]

The Current Reality:



Resource Constraints



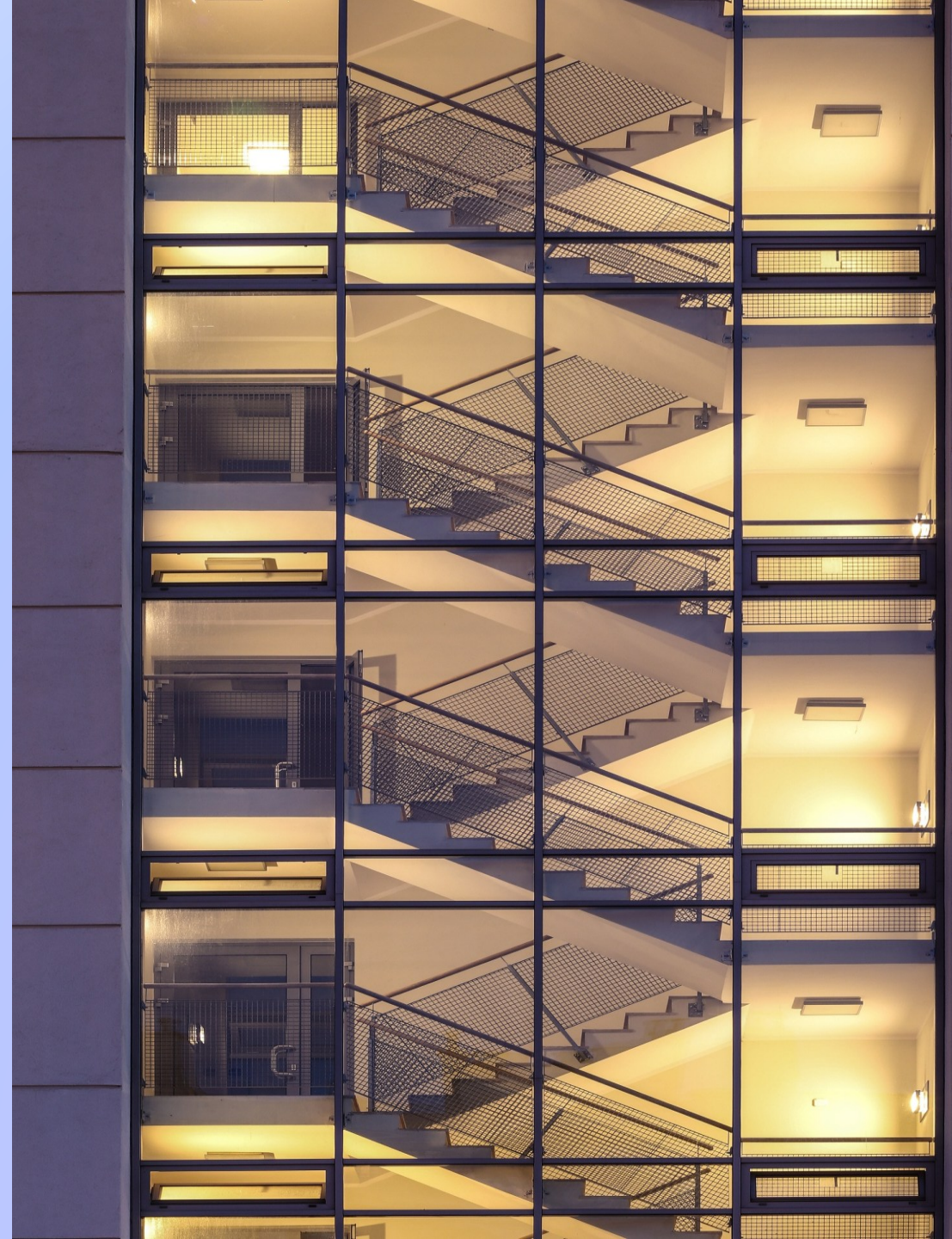
Compliance Pressure



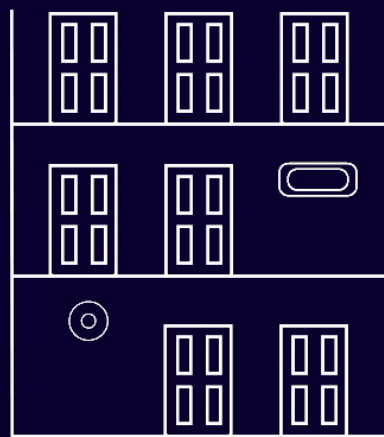
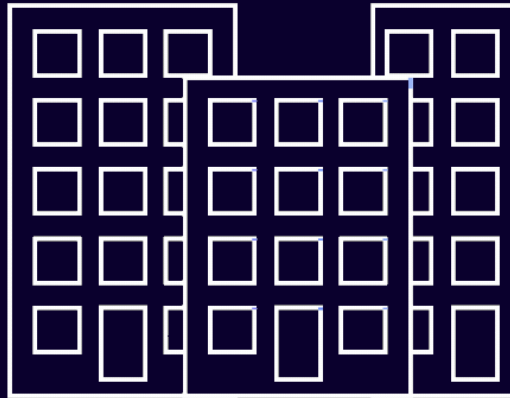
Inspection Treadmill



The Gap



The IoT Solution



The Three Big Benefits:



Enhanced Safety



Simplified Compliance



Operational Efficiency

Considerations:



Starting Point



Pilot Approach



Evaluation

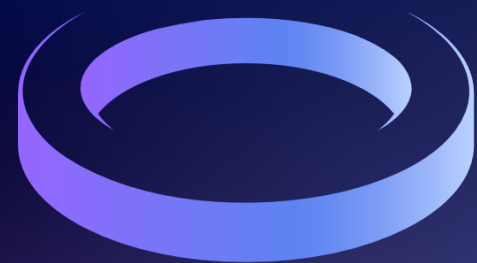


Success Indicators



Key Question





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Please complete the feedback form
and have a safe journey home!