

section 6: **Lighting**

LEDS AND LIGHTING control play a big role in inhabitant wellbeing and in helping buildings reduce their energy use – and there are a myriad of new products and innovations that are pushing lighting towards a more efficient future.

The Northern & Shell Building in the heart of London was one such building that is reaping the benefits of energy efficient LED lighting, thanks to an upgrade using a range of lighting products from Luceco – while still maintaining the building's aesthetics.

But despite lighting being such an important part of a building's specification, it is also a common victim of 'cutting corners' as budget limits are approached. It's critical that human safety is not compromised by this sort of 'spec breaking', and that cost-cutting lower-price lighting systems aren't used in lieu of the safer, higher quality systems laid out in the original building specification.

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On the right track

Emerging from a difficult period for the construction industry marred by tragedy and concerns over safety, the recently launched Building in Quality (BiQ) tracker aims to end spec-breaking in building projects. TamLite Lighting managing director John Alden explains why the application of BiQ principles to lighting will bring benefits all-round.



IF THERE HAD been a common feeling for a while that something needed to be done to guarantee greater consistency of quality and safety throughout the construction industry, then the events of 14 June 2017, brought it into a terrible new focus. The death or injury of nearly 150 people as the result of the Grenfell Tower fire in Kensington, London, led to several reports and reviews concerning building design and maintenance, with particular concern voiced over the safety of high-rise residential blocks.

The findings of an independent review of building regulations and fire safety – led by Dame Judith Hackitt and published in May 2018 – make for especially sober reading. Identifying a lack of skills, knowledge and experience at every stage of the lifecycle of higher-risk residential buildings, the report sets out more than 50 recommendations for the government about delivering a more robust regulatory system.

Taking the initiative

But whilst the government has announced its plans to implement the Hackitt recommendations in full, a number of other initiatives look set to bring much-needed change to the construction sector. Arguably the most significant of these is the Building in Quality (BiQ) Tracker, which was launched during UK Construction Week last autumn.

Led by the Royal Institute of British Architects (RIBA), agreed by the Chartered Institute of Building (CIOB) and the Royal Institution of Chartered Surveyors (RICS), and developed in consultation with key members of the industry, the Quality Tracker establishes a chain of custody that allows project teams to track quality throughout a construction project.

Intended to provide a constant reminder of quality targets, the Tracker – which can be accessed as a free-to-download digital tool – will allow prospective and current members of a project team to better understand their risks. By allowing clients who adopt the BiQ Tracker to demonstrate their commitment to quality, the scheme is set to lead to an overall boost in building standards and safety. Critically, for tenants and owners/investors, the Tracker will also provide long-term reassurance in the form of a straightforward account about the quality targets for, and development history of, a given building.

Pilot projects in support of the BiQ Tracker are already taking place, and the early indications are that the construction industry and its service providers have already recognised the many potential benefits of the scheme.

Restoring confidence

As a technology provider to many areas of construction, we believe that the BiQ Tracker could play a significant role in restoring confidence. As well as the Grenfell Tower tragedy, the potentially hazardous defects found in schools across Scotland in recent years – which entailed the temporary closure of 17 schools in Edinburgh alone during 2016 – also remain near the forefront of public consciousness. In short, not only do construction firms and their partners need to do everything they can to make new builds as safe as possible – they also need to be seen to be doing so. An initiative like the BiQ Tracker can provide precisely that kind of transparent reassurance.

Tamlite is acutely aware that the type of spec-breaking that

the BiQ Tracker seeks to eliminate can and does affect the specification of lighting systems. Whatever the type of building, whatever the kind of scheme, budgets are always under pressure, with builders and designers always on the lookout to bring down costs. Regrettably, lighting has often been an area that has fallen victim to economisation, and it's arguable that the issue has become more acute in the LED era with a fresh wave of low-price – but not always high-quality – luminaires hitting the market.

The fact is that 'value engineering' – or, less politely, 'cutting corners' – when it comes to lighting can lead to all kinds of issues post-installation. Not only do lower-price systems potentially herald safety concerns for residents and maintenance teams, they are also less likely to deliver the energy savings and quality of illumination that can be enjoyed with higher-end schemes. With the possibility of more frequent failures and thus replacements, choosing lower-value systems can often be a misstep in every conceivable sense: financial, practical and technological.

The Quality Tracker establishes a chain of custody that allows project teams to track quality throughout a construction project

No scope for compromise

Quite rightly, there is a feeling that the landscape of our industry has changed irrevocably since Grenfell. Hand in hand with a need for more accountability at every stage of the construction process, there is a renewed focus on the standard of materials and systems. If there was ever any doubt before, it is now clear that quality cannot be compromised at any point in the supply chain.

As a leading lighting manufacturer, Tamlite wants to take a leadership role, and as part of that we intend to encourage awareness of the BiQ Tracker. It is evident that we have an important part to play in steering customers away from lower-quality products, towards solutions that can deliver quality, consistency and peace of mind. More than ever, making the case for the long-term benefits of higher-end solutions is going to be integral to our entire approach.

To this end, Tamlite has made an FAQ document about the BiQ Tracker available for download from the Tamlite website, along with a wealth of other existing information about LED lighting.

There is no doubt that it will take some years for the public in general to feel confident about the safety of, in particular, new high-rise developments. But initiatives like the BiQ Tracker provide a very concise and practical way forward to a brighter, safer future, and as a supplier we will offer them all the active support that we can.

Hot off the press

Luceco describes the benefits being offered by its LED luminaire refit at the Northern & Shell building in the heart of London.



installation of the LED luminaires for Meyer Office Solutions, a commercial design and build company. Meyer Office Solutions specialise in the design of floor plates for large commercial buildings, subdividing spaces to meet the requirements of their clients.

Edgelit LuxPanels with a bespoke fixing bracket designed to meet the requirements of the existing ceiling. The classic LuxPanel design offers high efficacy performance and maximum energy savings and are available in standard fixed output or dimmable.

Carbon downlights and circular LuxPanels were installed in corridors and breakout areas. Carbon is an ideal replacement for compact fluorescent fittings and is designed to retrofit ceiling cut outs of common traditional downlights. Circular LuxPanels benefit from a slim frame with a depth of only 20mm and provide excellent luminous uniformity. Available as standard with emergency packs or with dimmable remote drivers in 240mm, 180mm, 150mm and 120mm sizes, this range of luminaires demonstrates the diversity of the LuxPanel family

Other luminaires used included Platinum LED downlights. Platinum features easy fit positive locating swing out tabs and interchangeable bezel options and is ideal for use with sensors and lighting controls and offers possible running cost savings of up to 80%.

Luceco were delighted to provide LED lighting solutions that will benefit the energy efficiency and cost effectiveness of such an iconic building situated in the heart of the city of London.



First impressions

The main entrance foyer has been lit with Contour from Luceco. Contour is the ideal LED luminaire where continuous runs of illumination are required in commercial environments. The LED lighting system consists of connectable modules offered in 600mm, 1,200mm, 1,500mm and 1,800mm lengths that can be surface mounted, suspended or as at the Northern & Shell Building, recessed into the ceiling void. Runs of energy saving cost-effective LED lighting can be created with a full range of interconnecting illuminated modules including corner connectors, T-junction and cross pieces.

Contour has a five-year extended warranty available and offers over 50,000 hours of operational life, with no maintenance over the lifetime of the luminaire – an important factor when considering applications such as commercial environments, where 24 hours a day operation may be required.

Wide variety

Luceco relit offices with an array of luminaires, including 1,200mm x 300mm

LUCECO HAS SUPPLIED LED lighting to the iconic Northern & Shell building located at 10 Lower Thames Street, London. The building has been the home of *The Express* and *Star*, as well as other popular titles including *OK Magazine*. Office facilities in this landmark building situated on the north side of the river Thames have recently benefitted from a significant refurbishment project.

Concept M&E Ltd, based in Hemel Hempstead, took care of the electrical

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CONTOUR

LED linear luminaire for seamless illumination
in retail and commercial environments.

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Luceco



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Luceco is a £163M rapidly growing manufacturer and distributor of high quality and innovative LED lighting products supplying a blue chip and diversified customer base of trade distributors, retailers and project developers.

With over 70 years of experience, the Luceco PLC brands include BG Electrical, Masterplug, Ross, Kingfisher Lighting as well as Luceco LED lighting, offering a "one stop" shop for trade and retail accessories.

Production facilities include a 60,000 square metre manufacturing space with on-site injection moulding, urea compression moulding and metal stamping and over 2,000 staff.

With a distribution centre based in Telford, over 2,500 product lines are stocked, available with next day delivery service. The facilities also house quality control & testing with an ISO 9001:2000 accredited quality management system and product design & development, continually evolving product ranges aligned to market trends. sales & customer services, marketing, dedicated project teams and lighting design are also located at Telford.

Luceco's Head Office is in London with global offices in China, Hamburg, Paris, Barcelona, Dubai, Hong Kong and Johannesburg offering sales and support to European, Mediterranean, Middle East, Africa & Asia Pacific regions.

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