The Brighter Choice

Lighting for **social housing**

Efficient, effective and economical lighting, all with aesthetics and style

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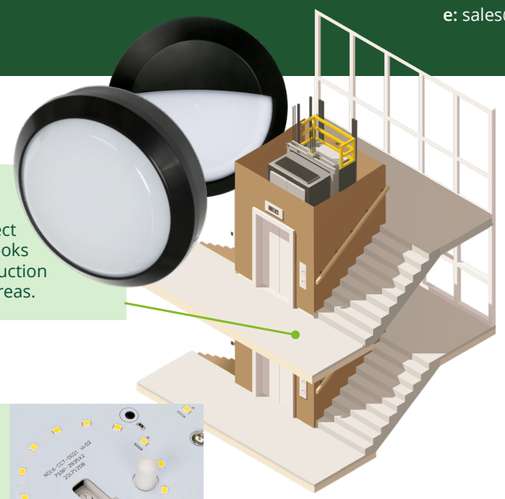


Stairwells
High-output SPARTAN bulkheads have a perfect combination of good looks and IK10 robust construction for these demanding areas.

Corridors
Sensors that keep the lights on at a low level, switching to full output when someone approaches, are essential here. We have a wide range of luminaires available where this feature is built-in.

Front entrance
DENALI has the looks of a high-end, specification grade fitting and with the cast aluminium construction to withstand some knocks.

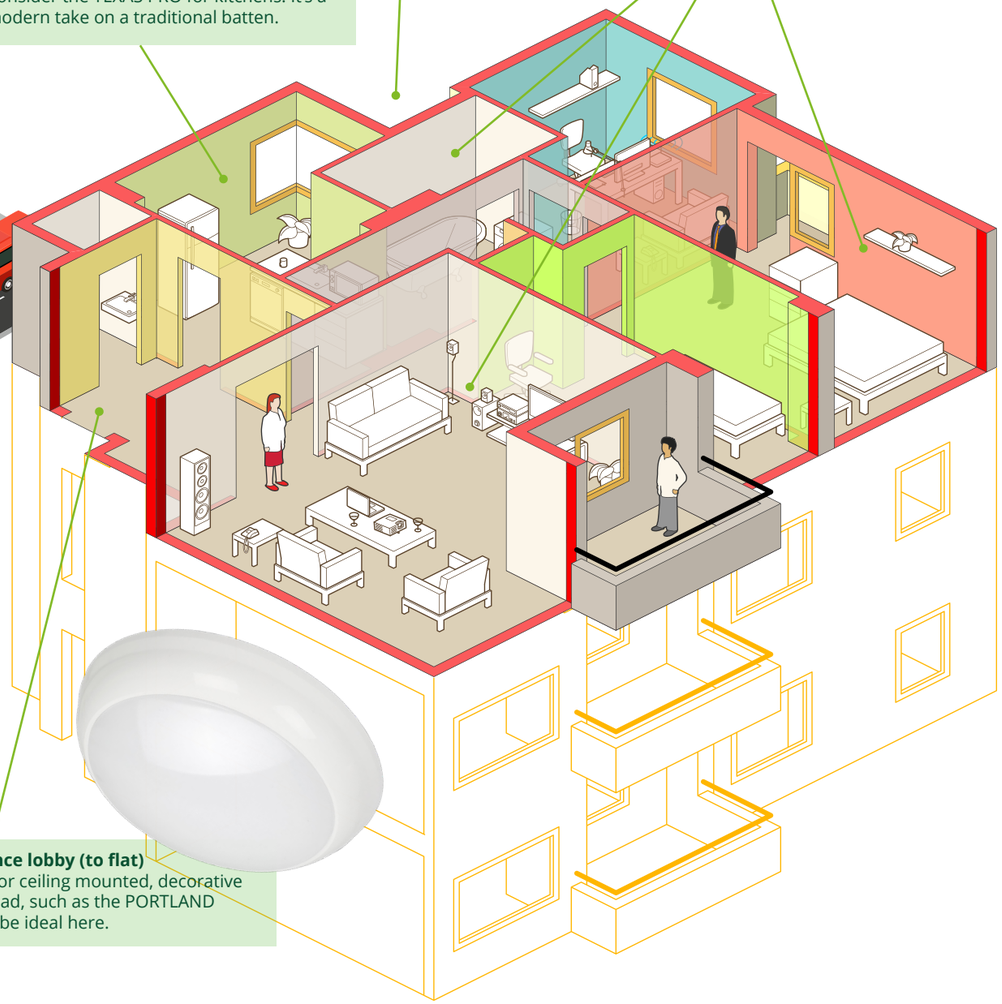
Entrance lobby (to building)
A wall or ceiling mounted, high-output decorative bulkhead, such as the PRESTON would be ideal here.

Rear entrance
Good lighting can help deter anti-social behaviour. The BRONX is an economical, IK10 rated fitting ideal for service areas.

Emergency lighting
This is required in all communal areas. Manual testing is expensive and requires human intervention. Our self test and addressable self-test solutions are very cost effective.

Bedroom/bathroom/living room
- If fire rating is required then our VENUS and MERCURY down light ranges are the perfect choice, and very easy to install.
- If fire-rating is not required our MIAMI downlight is the most versatile fitting available, and the fastest to install.

Kitchen
A linear fitting - so it casts little shadow - that is easy to wipe clean is needed here. Consider the TEXAS PRO for kitchens. It's a modern take on a traditional batten.



Entrance lobby (to flat)
A wall or ceiling mounted, decorative bulkhead, such as the PORTLAND would be ideal here.

Efficient, effective and **robust** - but not institutional

Lighting in social housing needs to be efficient, effective (stairwells and corridors need to be lit to safe levels) and robust (public areas are sometimes the scene of challenging behaviour) – but there is no need for it to look or feel institutional. Practical good looks and a pleasant lit environment are achievable if fittings are chosen with care.

Low installation cost

All the fittings highlighted here have been designed to keep the installation cost down. From contractor- friendly terminal blocks to minimised packaging – we know where installation cost is incurred and we have reduced it.

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Inside each flat

Recessed downlights are a popular and versatile choice for living rooms, bedrooms and bathrooms.

Our MIAMI, VENUS and MERCURY ranges provide all the features the social housing sector requires. Above all, these ranges have been designed for the fastest possible installation by contractors.

	MIAMI	VENUS	MERCURY
Fire-rated	No	Yes. 30, 60, 90	
IP65	Yes, suitable in all areas, including bathrooms		
GU10 or LED	GU10 – customer can fit their choice of LED lamp		Integral LEDs included
CCT	Customer choice		CCT SELECTABLE 3000K, 4000K, 5000K
Dimmable	Customer choice		Mains dimmable
Terminals	Piano key, loop-in / loop-out. No junction box required.		
Pluggable	Yes – unplug for high voltage testing, then plug in again. No skilled labour required.		
Bezels	White	White, chrome, satin chrome, black	
Contractor packs	Packs of 10 to minimise packaging waste and disposal costs		

For kitchens, recessed downlights are a popular choice, but for a more even and shadow-free effect consider a surface mounted linear fitting, such as our **TEXAS PRO**.

- One **TEXAS PRO** is quicker to install than several downlights
- Great lighting effect – wide distribution and minimum shadowing give great visibility
- Slim, wipe-clean profile
- Choice of 3 lengths and 6 wattages
- High efficiency – up to 146 luminaire lumens / circuit watt

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Corridors and stairwells...

..require a technically correct lighting solution to several conflicting objectives:

- **Energy efficiency**. Long running hours mean that energy efficiency is essential
- **High output required on stairs**. To light a stairwell to CIBSE standards requires a fitting with high output in mains and emergency modes.
- **Good looks**. Social housing is where people live – so aesthetics matter
- **Reliability**. Communal spaces need robust fittings, so IK10 ratings are recommended.

Our **PRESTON** bulkhead is a great solution for stairwells and corridors

- **Energy efficiency**.
  - Up to 110 luminaire lumens / circuit watt
  - Available with a microwave sensor and dim-to-10%.
- **High output**. The 32W version of **PRESTON** was designed for stairwells. With an output of 2,900lm a single fitting will comfortably illuminate a half-landing to the CIBSE recommended levels in mains and emergency mode.
- **Good looks**. **PRESTON** provides both direct illumination and a halo effect on walls & ceilings
- **Reliability**. **PRESTON** is IK10 and IP54 rated, so it's not just pretty – it's tough too.

Outdoor and exposed areas

For more exposed areas, where IP65 is required, consider the **SPARTAN**. It has the similar features of efficiency, good looks and reliability – but with an IP65 rating

Emergency lighting

This is a legal requirement in the communal areas of social housing and in selected areas of flats designed for disabled people.

If **manual testing** is used, it will be a major part if the total cost of lighting ownership.

- Monthly testing requires a monthly visit by a trained person to check every circuit and every fitting
- Battery failure is a common problem, requiring a return visit to fit spares and re-test

Self-test with lithium batteries is the cost-effective solution with a very low cost of ownership.

	MANUAL TEST WITH NICD BATTERIES	SELF-TEST WITH LITHIUM BATTERIES
Acquisition Cost	Lowest Cost	Higher cost, but payback in <2 years is typical
Testing Cost	Expensive. Trained person required	Zero cost
Testing Reliability	Low. Easily forgotten or skipped due to illness or holidays	100% reliable. It's automatic
Fault Reporting Reliability	Unreliable - reliant on the tester to spot and report failures	More reliable - visible and audible warnings of failures, so tenants can report faults
Life-time	Battery life up to 4 years, but dependant on usage	Battery life 8+ years and not affected by usage
Warranty	No warranty on NiCd batteries	Lithium batteries warranted for 7 years

Social housing for disabled people will usually have emergency lighting in the bathroom where there will be an alarm call position.

Manual testing is impractical because access for testing cannot be easily provided.

Addressable self-test is the best solution because no access is required and faults are reported to a central point.

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Cost of ownership

Energy efficiency and reliability are linked. The more energy efficient a fitting is, the less heat it generates. Heat is one of the main causes of failure in a light fitting, so energy efficient fittings are usually the most reliable. This is one of the reasons why the warranty on most of our fittings is now 7 years.

Adding lighting controls improves the position further. Directly, lighting controls save electricity. Indirectly, they extend the life of a fitting because less heat is generated and lumen depreciation is delayed.

For these reasons it is often cost effective to replace older LED fittings with new ones, with controls. There will be immediate energy savings with the added bonus of less maintenance and a longer product warranty.

ENERGY EFFICIENCY
In the communal (landlord) areas of social housing developments these are the key energy efficiency measures to take:

- A microwave occupancy sensor installed inside a fitting adds almost nothing to the installation cost, but is a quick and certain way to cut power consumption by up to 75%. This is available on most of our fittings.
- Corridor function (dim-to-10%). This is an energy saving technique that does not risk putting an entire corridor into darkness. Residents walking out of their flat onto a corridor are walking into a lit area and the lights quickly dim up to full brightness.

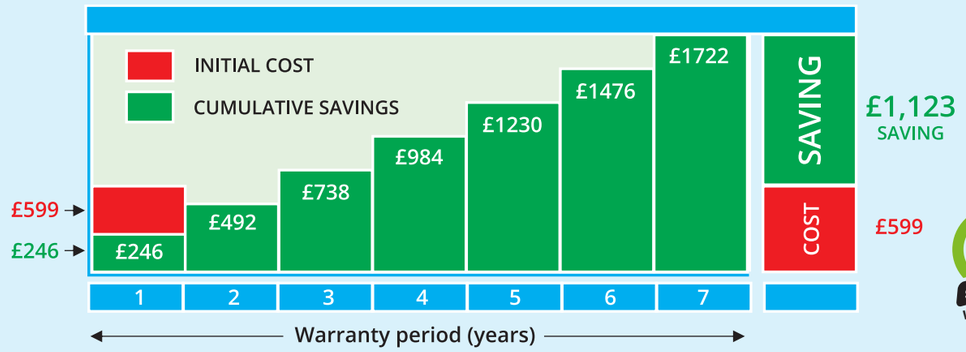
WARRANTY
The warranty on most of our fittings is 7 years, and where lithium batteries are included, the warranty extends to the batteries themselves.

RELIABILITY
Product reliability is a key factor in keeping cost of ownership low.

Here's an example, based on replacing 9 old 15W LED bulkheads in a corridor with 5 of our PRESTON fittings, equipped with microwave sensors and corridor function (dimming to 10% when nobody is present):

The initial outlay, including installation cost is £599, but the annual running cost savings are £246, so the project payback is achieved in 28 months, and with the fittings warranted for 7 years, the project's lifetime savings are projected to be £1,123.

	Actual Wattage	Lumen Output	Controls	Duty Cycle	Price Each	Install cost Each	Quantity	Total installed cost	Annual Power Use kW/h	Electricity Price £/kWh	Annual Running Cost @25p/kW/h	Annual Saving
OLD 15W PORTLAND BULKHEAD	15.1	1,010	None	24/7 @ 100%	N/A	N/A	9	N/A	1,190	0.25	£298	N/A
NEW 21W PRESTON - MW/CF	18.9	2,083	MW & CF	20/7 @ 10% & 4/7 @ 100%	£110	£20	2	£260	83	0.25	£52	£246
NEW 21W PRESTON - CF	18.9	2,083	CF	20/7 @ 10% & 4/7 @ 100%	£93	£20	3	£339	124	0.25	£52	



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Carbon Neutral Britain
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LIGHTING INDUSTRY ASSOCIATION MEMBER

GOLD 2021 ecovadis Sustainability Rating

RELUX official member

LUMICOM MEMBER

ECA COMMERCIAL ASSOCIATE

EDA

DATA

bsi ISO 9001 Quality Management Systems CERTIFIED FS 690066 · ISO 14001 Environmental Management CERTIFIED EMS 716023 · ISO 45001 Occupational Health and Safety Management CERTIFIED OHS 716024

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