



An LED based, IP65 rated, emergency luminaire range comprising two models, a bulkhead and exit sign, both offering low maintenance

- Suitable for escape route and anti-panic (open area) lighting applications
- Long life LED solution
- 3 hour maintained and non maintained LED bulkhead
- 3 hour maintain exit sign features an integrated door illumination panel
- Bulkhead of durable polycarbonate construction
- Bulkheads supplied with a set of adhesive ISO legend kit and exit sign supplied with down arrow ISO legend

### Applications

- Corridor/staircases
- Warehouse/Storage
- Kitchen
- Loading bay
- Meeting rooms
- Utility areas
- Offices
- Toilets
- Lecture Theatre
- Open areas

### Emergency legends



### Spacing data

2m escape route

Minimum illuminance (lux)	Mounting height (m)	Maximum Spacing (m)			
		Centre to End		Between Centres	
		Trans	Axial	Trans	Axial
1.0	2.5	2.50	2.40	6.85	6.55
	3	2.45	2.30	7.05	6.75

Open area

Minimum illuminance (lux)	Mounting height (m)	Maximum Spacing (m)			
		Centre to End		Between Centres	
		Trans	Axial	Trans	Axial
0.5	2.5	2.40	2.40	7.75	7.65
	3	2.50	2.45	8.25	8.20
	3.5	2.50	2.50	8.65	8.65

Light source - LED  
DLOR - 0.99 LOR - 100

### Standards



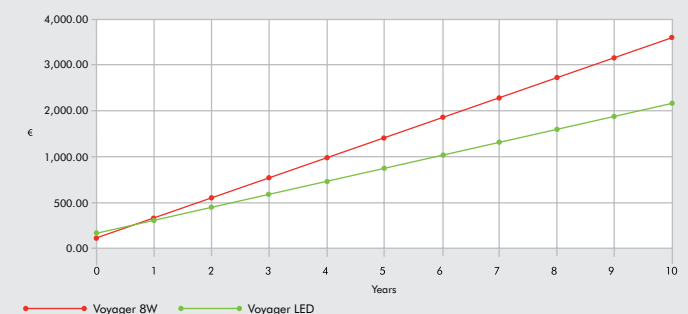
### Lamps



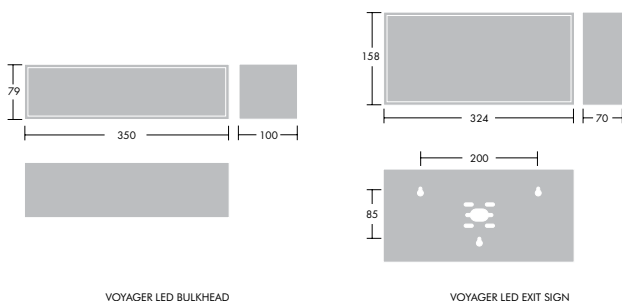
### Case Study for comparing a LED emergency bulkhead Vs a 8W T16 emergency bulkhead

The application is a new installation, a 30 metre corridor in an industrial location. Due to the improved spacing for the LED bulkhead then only four fittings are required compared to seven for the 8W versions. As there is a reduction in the number of fittings that require regularly test and inspection then over the first year there is a small saving when selecting LED over 8W T16 if this was over a 10 year period, there would be a saving of over €1300.

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
LED	€255.49	€447.09	€638.69	€830.29	€1,059.83	€1,251.43	€1,443.03	€1,634.63	€1,826.23	€2,017.83
8W	€296.18	€631.48	€996.78	€1,302.08	€1,687.30	€2,022.60	€2,357.90	€2,693.20	€3,028.50	€3,363.80
Savings	€40.70	€184.40	€328.10	€471.80	€627.47	€771.17	€914.87	€1,058.57	€1,202.27	€1,345.97



### Overview



VOYAGER LED BULKHEAD

VOYAGER LED EXIT SIGN

### Ordering Guide

Supplied complete with LEDs

Description	Weights (kg)	SAP Code
VOYAGER E LED BULKHEAD E3NM	0.89	96241056
VOYAGER E LED BULKHEAD E3M	0.89	96241057
VOYAGER E LED EXIT SIGN BOX*	1.78	96241058

Legends	SAP Code
VOYAGER LEG EURO UP	96233875
VOYAGER LEG EURO DOWN	96233876
VOYAGER LEG EURO LEFT	96233877
VOYAGER LEG EURO RIGHT	96233878
VOYAGER LEG ISO UP	96236785
VOYAGER LEG ISO DOWN	96236786
VOYAGER LEG ISO LEFT	96236787
VOYAGER LEG ISO RIGHT	96236788

\* Voyager Exit Sign Box contains the ISO down legend.

### Materials/Finish

**Bulkhead**  
 Body: white polycarbonate.  
 Diffuser: opal polycarbonate.  
 Gear tray: polycarbonate.

**Exit sign**  
 Body/gear tray: white painted steel.  
 Panel: polycarbonate

### Installation/Mounting

**Bulkhead**  
 Surface with Ø20mm cable entry each end and rear. Drill points for mounting on recessed ceiling or wall boxes including BESA. 3/4 way terminal block 2x1.5mm<sup>2</sup> or 1x4mm<sup>2</sup> capacity.

**Exit sign**  
 Wall mounting with Ø20mm cable entry top and rear. Screw fixings (3) on rear. 3/4 way terminal block 2x1.5mm<sup>2</sup> or 1x4mm<sup>2</sup> capacity.

### Specification

To specify state: Economical self-contained surface IP65 emergency bulkhead for maintained/non-maintained emergency lighting of 3 hour duration, with LED lamp and self adhesive legends.  
 As Thorn Voyager E Bulkhead LED

To specify state: Economical wall mounted maintained/maintained 3 hour duration emergency exit sign IP20 with LED lamp, door illumination panel, down arrow ISO legend and epoxy coated mild steel construction.  
 As Thorn Voyager E Exit Sign LED