

THORN

Pallion

A minimalist luminaire with maximum lighting impact



Pallion

A range of shallow recessed direct/indirect luminaires with a minimalist aesthetic design that delivers high performance task and ambient lighting for a range of indoor applications



Pallion is a new concept from Thorn that combines sophisticated optical performance using the latest louvre and microprism technology with the simplicity of an open coffer recessed direct/indirect luminaire. The result is a sleek, minimalist and modern design delivering maximum lighting impact using minimal energy consumption.

- Minimalist and modern product design - (p.4)
- Minimal energy consumption with maximum lighting impact - (p.6)
- Minimal effort required to design, install and maintain a lighting scheme - (p.9)



Minimal and Modern product design

With narrow single or twin optics and a shallow recessed coffer, Pallion subtly blends into various architectural environments

3 optics

Minivane louvre

Modern evolution of the traditional deep vane louvre, which reduces direct lamp visibility and provides suitable glare control for the general office environment or conference room with luminance levels $<3000\text{cd/m}^2$ and <19 UGR.



Semi-recessed

The semi-recessed version achieves the fully recommended levels of ceiling and wall illumination, for a truly uplifting environment, ideal for educational spaces or applications where clear illumination of faces is important. The narrow optic ensures minimal intrusion into the room space.

Slotted metal diffuser

A simple optical choice bringing a classic diffuser design into a modern geometry that lends a soft welcoming ambiance to low tech environments such as general circulation areas and canteens/restaurants



Recessed

Where a fully recessed luminaire is preferred, the recessed version maintains clean ceiling lines while the direct/indirect lighting performance produces excellent ceiling brightness, in the spirit of LG7. Recessed versions provide a welcoming ambiance to reception areas and entrance halls.

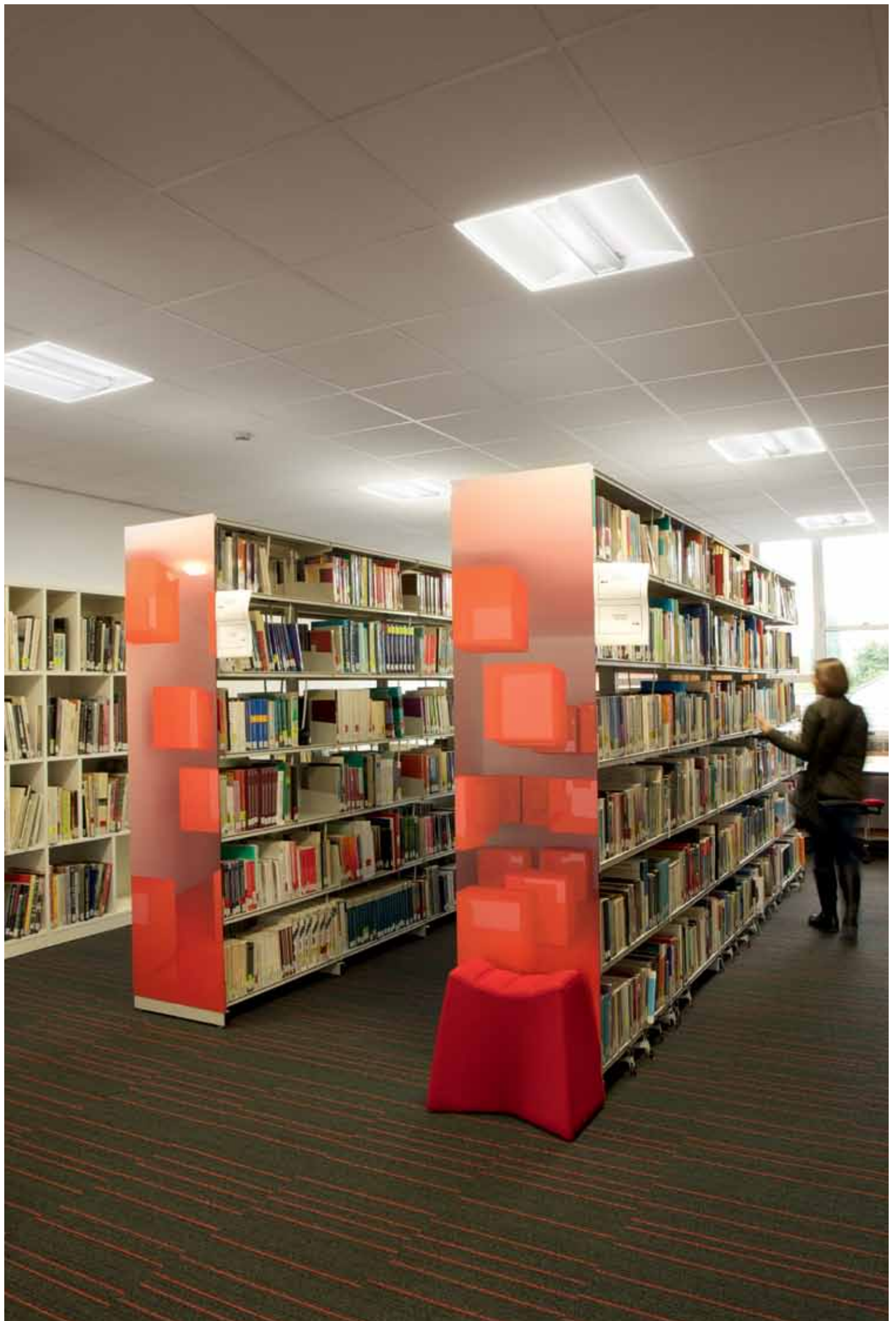
Prismatic diffuser

Avoiding any direct view of the lamp, this modern optic combines high light output and efficiency with soft aesthetics, making it a flexible choice for all manner of applications where the final use of the space may be uncertain or likely to change frequently



Single or twin

Single and twin optics are available, echoing the aesthetic for a consistent visual appearance.



Optical Performance and Energy Consumption


Why Recessed Direct/Indirect?


Pallion, along with the other recessed direct/indirect product ranges from Thorn, offers clear advantages to the lighting designer over other styles of lighting; the recessed reflector provides for a **brighter ceiling**, often with an upward light component that contributes to a more uplifting lit environment.


The indirect lighting allows a **better quality of light**, improving the appearance of room features and faces as light is reflected from many directions rather than just downwards.


The balance of direct and indirect light creates a softer lighting effect in the room, with **less glare** than other light sources can provide. At the same time the direct lighting ensures sufficient light on the task area for effective performance.



 **Dimming options** linked to daylight controls dim or turn off lighting in response to daylight availability, saving energy with no reduction in lighting levels

 **Linking to presence controls** ensures only those lights that are needed are turned on, saving energy during periods of low occupancy

 **Improved visual environment** due to the indirect lighting component creating a brighter and more comfortable lit space, whilst the direct component efficiently directs light onto the task

 **Greater electrical and optical efficiency** with all products in the Pallion range achieving an energy efficacy $>55\text{lm/W}$ and the LED version up to 78lm/W with controls

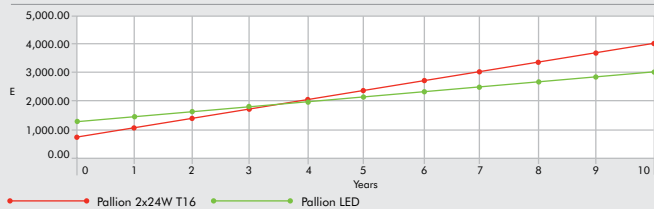
Energy efficiency: Classroom - 7.8m x 7.1m x 2.8m | 300 lx

Pallion converts more power into light, and therefore requires fewer fittings to achieve the required average illuminance of 300 lux

New Installation

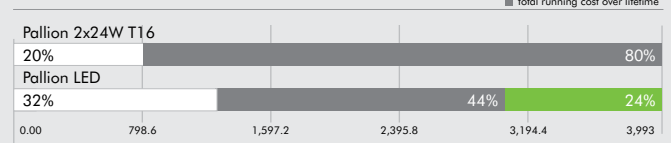
	No. Fittings	Illuminance (lux)	Uniformity	Connected Load (W/m²)
Pallion R 3150lm LED	6	392	0.68	4.88
Pallion 2x24W Minivane	9	309	0.72	7.96

Course of overall costs of solution over lifetime



Refurbishment

Investment costs vs. running costs of solution (absolute)



Converting more power into light

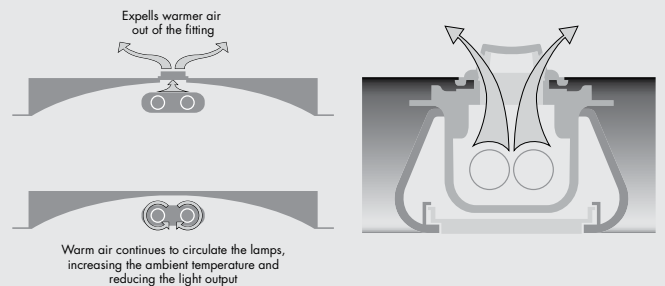
The table below illustrates the efficiency of Pallion. The Pallion range exceeds the LENI values for offices and education proposed by EN 15193 and as part of an overall lighting scheme, the Pallion range ensures both an efficient installation and a high quality of lighting.



	Pallion R 1x55W Prismatic	Pallion SR 1x55W Prismatic	Pallion 3800lm LED Prismatic
Lumen output	3408	3648	3800
LOR	71	76	100
Total circuit watts (W)	61	61	56.5
Total Luminaire Lumens/Circuit Watt	56	60	66.58
Annual consumption kWh	137.25	137.25	127.13
Carbon emission output based on 0.43 kg/kWh	59.02	59.02	54.67
Yearly cost of energy per fitting (EUROS)	27.45	27.45	14.10
Fittings required to achieve 500lux average illuminance	42	42	36
Maintained illuminance	523	507	561
Watts per m²	11.39	11.39	9.04
Watts per m² per 100 lux	2.18	2.24	1.61
LENI (no control) kWh/m² year	31.3	31.3	22.61
LENI (presence+daylight controls) kWh/m² year	25.6	25.6	18.52

Based on office with dimensions 15m x 15m x 2.8m, average burning hours 2250 per year, cost of energy EURO 0.2/kWh

Patented heat-extraction system



Heat flows from the lamp out of the fitting via the vent rather than being trapped and heating the reflectors, keeping the lamp area cooler and increasing light output efficiency

LEDs

The essence of good lighting design

With two lumen output options, Pallion LED provides an easy opportunity to enjoy the benefits LEDs bring to lighting installations

Pallion LED provides a solution where aesthetics, optical performance, energy consumption and maintenance are all in perfect balance.

Prismatic Diffuser - cleverly diffuses the LED points of light creating a smooth illumination of the product. The prisms of the diffuser spread the light over a broad space in the room, illuminating walls and task areas comfortably.

LED Light Source - 3150 and 3800 lumen outputs create equivalent lit performance to traditional fluorescent alternatives with no compromise in performance. The extended lifetime of LEDs means considerably less maintenance is also required.

Why LED Lighting?

- High optical performance
- Instant and full light output
- Low wattage for energy savings
- Long operating life (>50,000 hours)
- Reduced maintenance requirements
- No UV or IR radiation
- Zero mercury
- 5-100% dimming (which also improves LED lifetime further)
- Physical robustness



Maintenance, Controls and Regulations



Maximising control and flexibility

Pallion was designed with energy efficiency in mind, with integral control options to allow the most efficient lighting of any space. At the same time the quality of the lighting performance ensures Pallion is flexible enough to be used in a number of applications, creating a comfortable lit environment.

Performance - Visual effectiveness of the scheme. Pallion's blend of direct and indirect light effectively illuminates all surfaces, making it ideal for educational environments where face-to-face visibility and wall displays are important. Dimming control allows light to be tailored to the task, ideal for meeting and conference rooms with a number of daily functions

Efficiency - Minimising energy use. Pallion is available with discreet inbuilt sensors to minimise wasted energy and maintain appropriate lighting levels throughout the day.

Comfort - A more stimulating lit environment. With integral dimming options and a choice of three optics, Pallion meets a range of preferences in efficiency, glare control and lit aesthetics. The upward light component makes Pallion ideal for leisure and waiting areas, providing a welcoming ambiance, and in offices can create a more stimulating working environment.

Flexibility - Pallion is also available with air handling capabilities and compatible with the IP44 frame.

Easy emergency lighting

There are strict guidelines regarding the level of lighting required in an emergency situation, and the maintenance of that lighting. Pallion makes it easy with integral LED emergency;

Easy to calculate

All Pallion products, regardless of wattage, are available with a self-contained emergency LED. With no 'maintenance factor' or 'ballast lumen factor', luminaire spacings can already be calculated as shown in the table below. These spacing's are broader than in standard emergency luminaires, due to the high lumen output of the LEDs.

Easy to test and maintain

Pallion is available with either Automatic Self-testing or Addressable testing. Automatic Self-testing products test the emergency equipment functionality at regular times and exhibit a bi-colour LED to allow easy visibility of any faults. Addressable testing luminaires store their test data which can be downloaded onto a central system for convenient indication of precise faults and locations, removing the need for any paperwork.

Emergency luminaire spacing comparison for 0.5 lux open area:

	Maintenance Factor	BLF	Mounting height	Centre to end		Between centres	
				Trans	Axial	Trans	Axial
Pallion with LED emergency	1	1	2.5	2.55	2.50	8.65	8.60
			3.0	2.60	2.60	9.15	9.10
Menlosoft 2 x 24W T5 with standard emergency	0.90	0.13	2.5	2.45	2.45	7.50	7.45
			3.0	2.55	2.55	8.05	8.05
			3.5	2.60	2.60	8.55	8.55

Product features

Lamps

- ☐ T16 (FDH) G5 14-24W
- ☐ TC-L (FSD) 2G11 40-55W
- ☐ LED

Life time 50,000 Hours @L70 Ta 25°C

3150lm (45.5W) 70lm/W
3800lm (56.5W) 67lm/W
Colour Temperature 4000K

Materials/Finish

Body: Deep drawn steel pre-painted white (RAL 9010).
Coffer: Sheet steel, post-painted textured white (close to RAL 9010).
Diffuser: Opal and microprismatic extruded acrylic.
Louvre: Aluminium in semi-specular finish.

Installation/Mounting

Suitable for lay-in installation into 15mm or 24mm exposed tee ceilings, the luminaire simply lays onto the ceiling grid for quick installation. For installation from below into concealed fixed and plasterboard ceilings, use mini-wedge bracket kit (96218676, to be ordered separately). Attachment is easily fitted and removed by hand for lamp access. Electrical connection is quick and easy via external mounted connector on back of body.

UK addition: HF WL4 versions have flush panel mounted GST 18/4 male connector (plug) and dimmable WL6 versions have 18/6 box T connector which protrudes 30mm from back of body.

Appropriate female connectors (sockets) must be ordered separately (see Thorn Connect range) to electrically connect luminaires.

Standards

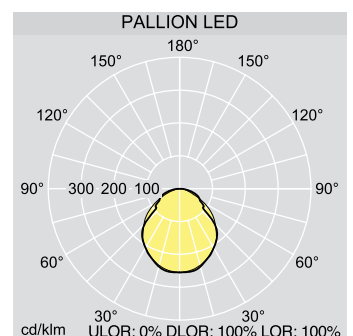
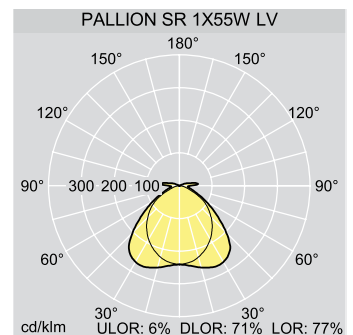
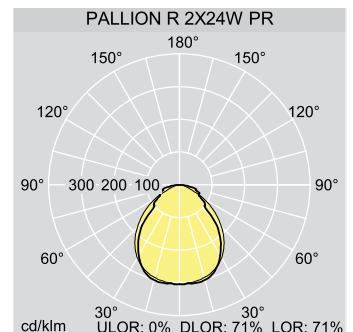


(compatible with IP44 frame)

Specification

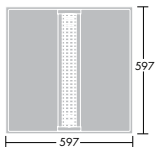
To specify state: Recessed mounted luminaire with shallow 70mm deep drawn body for 14W/24W T16 linear or 40W/55W TC-L compact fluorescent lamps and 45.5/56.5W LED (prismatic diffuser only) with mini vane louvre/prismatic diffuser/slotted metal diffuser and shallow textured coffer for direct/indirect lighting performance. Suitable for lay-in into exposed tee grids or for pull up into concealed grids or plasterboard ceilings with unique 'mini-wedge' brackets and external electrical connection. Fixed output or digital dimmable control gear with 3 hour integral LED emergency versions and option for integral sensor head. Air handling version also available. As Thorn Pallion Recessed.

To specify state: Semi-recessed luminaire with shallow 70mm deep drawn body for 14W/24W T16 linear or 40W/55W TC-L compact fluorescent lamps with 100mm suspended optic with mini vane louvre/prismatic diffuser/slotted metal diffuser and shallow textured coffer for direct/indirect lighting performance that delivers 50% of horizontal working plane illuminance on walls and 30% on ceilings. Suitable for lay-in into exposed tee grids or for pull up into concealed grids or plasterboard ceilings with unique 'mini-wedge' brackets and external electrical connection. Fixed output or digital dimmable control gear with 3 hour integral LED emergency versions and option for integral sensor head. Air handling version also available. As Thorn Pallion Semi-recessed.

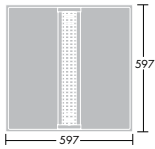


Dimensions

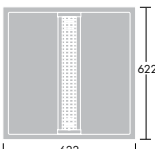
Pallion R Single optic



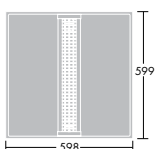
Pallion R (597)



Pallion R (597) WL6

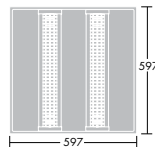


Pallion R (625)

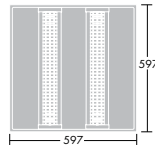


Pallion R (600)

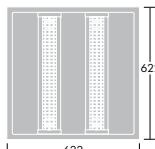
Pallion R Twin optic



Pallion R (597)

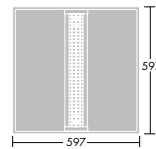
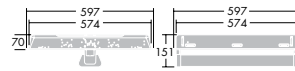


Pallion R (597) WL6

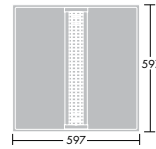
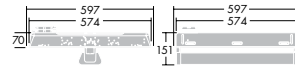


Pallion R (625)

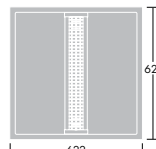
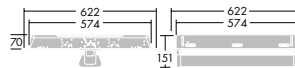
Pallion SR Single optic



Pallion SR (597)

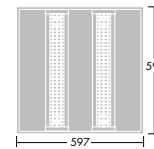
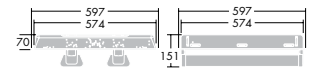


Pallion SR (597) WL6

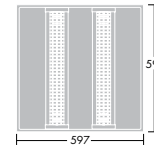
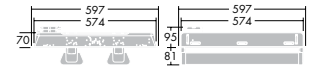


Pallion SR (625)

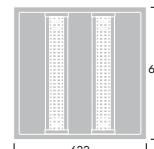
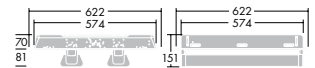
Pallion SR Twin optic



Pallion SR (597)



Pallion SR (597) WL6



Pallion SR (625)

Ordering guides

Ordering Guide

Supplied complete with lamp(s)

Description	Wt	SAP Code	Description	Wt	SAP Code	Description	Wt	SAP Code
UK, NEE & INTL RANGE			UK, NEE & INTL RANGE			NORDIC RANGE		
Recessed with mini vane louvre			Recessed with slotted diffuser			Recessed with mini vane louvre		
PALLION R 1X55W HF WL4 LV 597 L840	4	96548725	PALLION R 1X55W HF WL4 SL 597 L840	4	96548765	PALLION R 1X55W HFI WO5 LV 597 L830	4	96548807
PALLION R 2X40W HF WL4 LV 597 L840	4.6	96548726	PALLION R 2X24W HF WL4 SL 597 L840	4	96548766	PALLION R 2X40W HFI WO5 LV 597 L830	4.6	96548808
PALLION R 2X55W HF WL4 LV 597 L840	4.6	96548727	PALLION R 1X55W HFI WL6 SL 597 L840	4	96548767	PALLION R 2X55W HFI WO5 LV 597 L830	4.6	96548809
PALLION R 2X24W HF WL4 LV 597 L840	4	96548728	PALLION R 2X24W HFI WL6 SL 597 L840	4	96548768	PALLION R 2X24W HFI WO5 LV 597 L830	4	96548810
PALLION R 4X14W HF WL4 LV 597 L840	4.6	96548729	Recessed with slotted diffuser - emergency version			PALLION R 4X14W HFIX WO5 LV 597 L830	4.6	96548811
PALLION R 1X55W HFI WL6 LV 597 L840	4	96548730	PALLION R 1X55W HF E3 WL4 SL 597 L840	4.3	96548769	PALLION R 1X55W HF WO3 LV 600 L830	5.4	96548833
PALLION R 2X40W HFI WL6 LV 597 L840	4.6	96548731	PALLION R 2X24W HF E3 WL4 SL 597 L840	4.3	96548770	PALLION R 2X24W HF WO3 LV 600 L830	5.4	96548834
PALLION R 2X55W HFI WL6 LV 597 L840	4.6	96548732	PALLION R 1X55W HFI E3 WL6 SL 597 L840	4.3	96548771	PALLION R 1X55W HFI WO5 LV 600 L830	5.4	96548835
PALLION R 2X24W HFI WL6 LV 597 L840	4	96548733	PALLION R 2X24W HFI E3 WL6 SL 597 L840	4.3	96548772	PALLION R 2X24W HFI WO5 LV 600 L830	5.4	96548836
PALLION R 4X14W HFIX WL6 LV 597 L840	4.6	96548734	Semi-recessed with mini vane louvre			Recessed with prismatic diffuser		
Recessed with mini vane louvre - emergency version			PALLION SR 1X55W HF WL4 LV 597 L840	4	96548773	PALLION R 1X55W HF ML PR 597 L830	4	96548812
PALLION R 1X55W HF E3 WL4 LV 597 L840	4.3	96548735	PALLION SR 2X24W HF WL4 LV 597 L840	4	96548774	PALLION R 2X40W HF ML PR 597 L830	4.6	96548813
PALLION R 2X40W HF E3 WL4 LV 597 L840	4.9	96548736	PALLION SR 4X14W HF WL4 LV 597 L840	4.6	96548775	PALLION R 2X55W HF ML PR 597 L830	4.6	96548814
PALLION R 2X55W HF E3 WL4 LV 597 L840	4.9	96548737	PALLION SR 1X55W HFI WL6 LV 597 L840	4	96548776	PALLION R 2X24W HF ML PR 597 L830	4	96548815
PALLION R 2X24W HF E3 WL4 LV 597 L840	4.3	96548738	PALLION SR 2X24W HFI WL6 LV 597 L840	4	96548777	PALLION R 4X14W HF ML PR 597 L830	4.6	96548816
PALLION R 4X14W HF E3 WL4 LV 597 L840	4.9	96548739	PALLION SR 4X14W HFIX WL6 LV 597 L840	4.6	96548778	PALLION R 1X55W HF WO3 PR 597 L830	4	96548817
PALLION R 1X55W HFI E3 WL6 LV 597 L840	4.3	96548740	Semi-recessed with mini vane louvre - emergency version			PALLION R 2X40W HF WO3 PR 597 L830	4.6	96548818
PALLION R 2X40W HFI E3 WL6 LV 597 L840	4.9	96548741	PALLION SR 1X55W HF E3 WL4 LV 597 L840	4.3	96548779	PALLION R 2X55W HF WO3 PR 597 L830	4.6	96548819
PALLION R 2X55W HFI E3 WL6 LV 597 L840	4.9	96548742	PALLION SR 2X24W HF E3 WL4 LV 597 L840	4.3	96548780	PALLION R 2X24W HF WO3 PR 597 L830	4	96548820
PALLION R 2X24W HFI E3 WL6 LV 597 L840	4.3	96548743	PALLION SR 4X14W HF E3 WL4 LV 597 L840	4.9	96548781	PALLION R 4X14W HF WO3 PR 597 L830	4.6	96548821
PALLION R 4X14W HFIX E3 WL6 LV 597 L840	4.9	96548744	PALLION SR 1X55W HFI E3 WL6 LV 597 L840	4.3	96548782	PALLION R 1X55W HFI WO5 PR 597 L830	4	96548822
Recessed with prismatic diffuser			PALLION SR 2X24W HFI E3 WL6 LV 597 L840	4.3	96548783	PALLION R 2X55W HFI WO5 PR 597 L830	4.6	96548824
PALLION R 1X55W HF WL4 PR 597 L840	4	96548745	PALLION SR 4X14W HFIX E3 WL6 LV 597 L840	4.9	96548784	PALLION R 2X24W HFI WO5 PR 597 L830	4	96548825
PALLION R 2X40W HF WL4 PR 597 L840	4.6	96548746	Semi-recessed with prismatic diffuser			PALLION R 4X14W HFIX WO5 PR 597 L830	4.6	96548826
PALLION R 2X55W HF WL4 PR 597 L840	4.6	96548747	PALLION SR 1X55W HF WL4 PR 597 L840	4	96548785	PALLION R 1X55W HF WO3 PR 600 L830	5.4	96548837
PALLION R 2X24W HF WL4 PR 597 L840	4	96548748	PALLION SR 2X24W HF WL4 PR 597 L840	4	96548786	PALLION R 2X24W HF WO3 PR 600 L830	5.4	96548838
PALLION R 4X14W HF WL4 PR 597 L840	4.6	96548749	PALLION SR 4X14W HF WL4 PR 597 L840	4.6	96548787	PALLION R 1X55W HFI WO5 PR 600 L830	5.4	96548839
PALLION R 1X55W HFI WL6 PR 597 L840	4	96548750	PALLION SR 1X55W HFI WL6 PR 597 L840	4	96548788	PALLION R 2X24W HFI WO5 PR 600 L830	5.4	96548840
PALLION R 2X40W HFI WL6 PR 597 L840	4.6	96548751	PALLION SR 2X24W HFI WL6 PR 597 L840	4	96548789	LED Recessed with prismatic diffuser		
PALLION R 2X55W HFI WL6 PR 597 L840	4.6	96548752	PALLION SR 4X14W HFIX E3 WL6 PR 597 L840	4.6	96548790	PALLION R LED 3150 HFIX ML PR 597	4.8	96550683
PALLION R 2X24W HFI WL6 PR 597 L840	4	96548753	Semi-recessed with prismatic diffuser - emergency version			PALLION R LED 3150 HFIX WO5 PR 597	4.8	96550684
PALLION R 4X14W HFIX WL6 PR 597 L840	4.6	96548754	PALLION SR 1X55W HF E3 WL4 PR 597 L840	4.3	96548791	PALLION R LED 3800 HFIX WO5 PR 600	6.3	96550685
Recessed with prismatic diffuser - emergency version			PALLION SR 2X24W HF E3 WL4 PR 597 L840	4.3	96548792	PALLION R LED 3800 HFIX ML PR 597	4.8	96550686
PALLION R 1X55W HF E3 WL4 PR 597 L840	4.3	96548755	PALLION SR 4X14W HF E3 WL4 PR 597 L840	4.9	96548793	PALLION R LED 3800 HFIX WO5 PR 597	4.8	96550687
PALLION R 2X40W HF E3 WL4 PR 597 L840	4.9	96548756	PALLION SR 1X55W HFI E3 WL6 PR 597 L840	4.3	96548794	PALLION R LED 3800 HFIX WO5 PR 600	6.3	96550688
PALLION R 2X55W HF E3 WL4 PR 597 L840	4.9	96548757	PALLION SR 2X24W HFI E3 WL6 PR 597 L840	4.3	96548795	Recessed with slotted diffuser		
PALLION R 2X24W HF E3 WL4 PR 597 L840	4.3	96548758	PALLION SR 4X14W HFIX E3 WL6 PR 597 L840	4.9	96548796	PALLION R 1X55W HF ML SL 597 L830	4	96548827
PALLION R 4X14W HF E3 WL4 PR 597 L840	4.9	96548759	NORDIC RANGE			PALLION R 2X24W HF ML SL 597 L830	4	96548828
PALLION R 1X55W HFI E3 WL6 PR 597 L840	4.3	96548760	Recessed with mini vane louvre			PALLION R 1X55W HF WO3 SL 597 L830	4	96548829
PALLION R 2X40W HFI E3 WL6 PR 597 L840	4.9	96548761	PALLION R 1X55W HF ML LV 597 L830	4	96548797	PALLION R 2X24W HF WO3 SL 600 L830	4	96548830
PALLION R 2X55W HFI E3 WL6 PR 597 L840	4.9	96548762	PALLION R 2X40W HF ML LV 597 L830	4.6	96548798	PALLION R 1X55W HFI WO5 SL 597 L830	4	96548831
PALLION R 2X24W HFI E3 WL6 PR 597 L840	4.3	96548763	PALLION R 2X55W HF ML LV 597 L830	4.6	96548799	PALLION R 2X24W HFI WO5 SL 597 L830	4	96548832
PALLION R 4X14W HFIX E3 WL6 PR 597 L840	4.9	96548764	PALLION R 2X24W HF ML LV 597 L830	4	96548800	PALLION R 1X55W HF WO3 LV 597 L830	4	96548802
LED Recessed with prismatic diffuser			PALLION R 4X14W HF ML LV 597 L830	4.6	96548801	PALLION R 2X40W HF WO3 LV 597 L830	4.6	96548803
PALLION R LED 3150 HFIX WL6 PR 597	4.8	96550679	PALLION R 1X55W HF WO3 LV 597 L830	4	96548802	PALLION R 2X55W HF WO3 LV 597 L830	4.6	96548804
PALLION R LED 3800 HFIX WL6 PR 597	4.8	96550681	PALLION R 2X40W HF WO3 LV 597 L830	4.6	96548803	PALLION R 1X55W HFI WO5 SL 600 L830	5.4	96548843
LED Recessed with prismatic diffuser - emergency version			PALLION R 1X55W HF WO3 LV 597 L830	4	96548802	PALLION R 2X24W HFI WO5 SL 600 L830	5.4	96548844
PALLION R LED 3150 HFIX E3 WL6 PR 597	5.1	96550680	PALLION R 2X40W HF WO3 LV 597 L830	4.6	96548803			
PALLION R LED 3800 HFIX E3 WL6 PR 597	5.1	96550682	PALLION R 2X55W HF WO3 LV 597 L830	4.6	96548804			
PALLION R LED 3150 HFIX E3TX WL6 PR 597	5.1	96241482	PALLION R 2X24W HF WO3 LV 597 L830	4	96548805			
PALLION R LED 3800 HFIX E3TX WL6 PR 597	5.1	96241483	PALLION R 4X14W HF WO3 LV 597 L830	4.6	96548806			

Description	Wt	SAP Code	Description	Wt	SAP Code	
FRENCH RANGE			AUSTRIAN RANGE			
Recessed with mini vane louvre			Recessed with mini vane louvre			
PALLION R 1X55W HF IS3 LV 597 L840	4	96548845	PALLION R 1X55W HF IS4 LV 625 L840	4.7	96548885	
PALLION R 2X24W HF IS3 LV 597 L840	4	96548846	PALLION R 2X24W HF IS4 LV 625 L840	4.7	96548886	
PALLION R 1X55W HFI IS5 LV 597 L840	4	96548847	PALLION R 2X55W HF IS4 LV 625 L840	5.3	96240261	
PALLION R 2X24W HFI IS5 LV 597 L840	4	96548848	PALLION R 1X55W HFI IS6 LV 625 L840	4.7	96548887	
Recessed with prismatic louvre			Recessed with prismatic louvre			
PALLION R 1X55W HF IS3 PR 597 L840	4	96548849	PALLION R 2X24W HFI IS6 LV 625 L840	4.7	96548888	
PALLION R 2X40W HF IS3 PR 597 L840	4.6	96548850	PALLION R 2X55W HFI IS6 LV 625 L840	5.3	96240262	
PALLION R 2X55W HF IS3 PR 597 L840	4.6	96548851	Recessed with prismatic diffuser			
PALLION R 2X24W HF IS3 PR 597 L840	4	96548852	PALLION R 1X55W HF IS4 PR 625 L840	4.7	96548889	
PALLION R 4X14W HF IS3 PR 597 L840	4.6	96548853	PALLION R 2X24W HF IS4 PR 625 L840	4.7	96548890	
PALLION R 1X55W HFI IS5 PR 597 L840	4	96548854	PALLION R 2X55W HF IS4 PR 625 L840	5.3	96240263	
PALLION R 2X40W HFI IS5 PR 597 L840	4.6	96548855	PALLION R 1X55W HFI IS6 PR 625 L840	4.7	96548891	
PALLION R 2X55W HFI IS5 PR 597 L840	4.6	96548856	PALLION R 2X24W HFI IS6 PR 625 L840	4.7	96548892	
PALLION R 2X24W HFI IS5 PR 597 L840	4	96548857	PALLION R 2X55W HFI IS6 PR 625 L840	5.3	96240264	
PALLION R 4X14W HFIX IS5 PR 597 L840	4.6	96548858	LED recessed with prismatic diffuser			
LED version with prismatic diffuser			PALLION R LED 3150 HFIX IS6 PR 625	5.6	96550691	
PALLION R LED 3150 HFIX IS5 PR 597	4.8	96550689	PALLION R LED 3150 HFIX E3 IS6 PR 625	5.9	96550692	
PALLION R LED 3800 HFIX IS5 PR 597	4.8	96550690	PALLION R LED 3800 HFIX IS6 PR 625	5.6	96550693	
Recessed with slotted diffuser			PALLION R LED 3800 HFIX E3 IS6 PR 625	5.9	96550694	
Recessed with slotted diffuser			Recessed with slotted diffuser			
PALLION R 1X55W HF IS3 SL 597 L840	4	96548859	PALLION R 1X55W HF IS4 SL 625 L840	4.7	96548893	
PALLION R 2X24W HF IS3 SL 597 L840	4	96548860	PALLION R 2X24W HF IS4 SL 625 L840	4.7	96548894	
PALLION R 1X55W HFI IS5 SL 597 L840	4	96548861	PALLION R 1X55W HFI IS6 SL 625 L840	4.7	96548895	
PALLION R 2X24W HFI IS5 SL 597 L840	4	96548862	PALLION R 2X24W HFI IS6 SL 625 L840	4.7	96548896	
Semi-recessed with mini vane louvre			R	Recessed	WO	Wago type plug
PALLION SR 1X55W HF IS3 LV 597 L840	4	96548863	SR	Semi-recessed	IS	Isodom hatch with 3-6 pole
PALLION SR 2X24W HF IS3 LV 597 L840	4	96548864	HF	Electronic fixed output gear	WL*	Wieland type plug (GST)
PALLION SR 1X55W HFI IS5 LV 597 L840	4	96548865	HFI	Electronic, DALI/DSI dimmable	LV	Mini vane louvre
PALLION SR 2X24W HFI IS5 LV 597 L840	4	96548866	HFIX	Electronic, DALI dimmable	PR	Prismatic diffuser
Semi-recessed with prismatic diffuser			ML	Mains lead	SL	Slotted diffuser
PALLION SR 1X55W HF IS3 PR 597 L840	4	96548867	E3	3 hour duration, Manual test		
PALLION SR 2X24W HF IS3 PR 597 L840	4	96548868	E3TX	3 hour duration, SelfTest/Addressable test		
PALLION SR 4X14W HF IS3 PR 597 L840	4.6	96548869				
PALLION SR 1X55W HFI IS5 PR 597 L840	4	96548870				
PALLION SR 2X24W HFI IS5 PR 597 L840	4	96548871				
PALLION SR 4X14W HFIX IS5 PR 597 L840	4.6	96548872				

Ordering Guide - spares and accessories

Description	SAP Code	
PALLION R LV SPARE OPTIC	Pallion recessed louvre optic spare, 1 pc	59004823
PALLION R PR SPARE OPTIC	Pallion recessed prismatic opal diffuser spare, 1 pc	59004824
PALLION SR LV SPARE OPTIC	Pallion semi-recessed louvre optic spare, 1 pc	59004825
PALLION SR PR SPARE OPTIC	Pallion semi-recessed prismatic opal diffuser spare, 1 pc	59004826
PALLION SL SPARE OPTIC	Pallion recessed slotted metal diffuser spare, 1 pc	59004827
RECESSED 50MM THERMAL SPACER INSERT SINGLE KIT	Pack of 2x50mm thermal spacers for recessed installation of single lamp luminaires	59004828
RECESSED 50MM THERMAL SPACER INSERT TWIN KIT	Pack of 4x50mm thermal spacers for recessed installation of twin lamp luminaires	59004829
PALLION 16MM SPACER INSERT SPARE KIT	Pallion 16mm spacer kit, pack of 2 pcs spare	59004830
MINI WEDGE	Internal fit for plasterboard ceilings	96218676
FRAME IP44 600X600MM AC CL	Universal IP44 frame with clear acrylic diffuser	96233930
FRAME IP44 600X600MM AC CL PET	Universal IP44 frame with clear polycarbonate diffuser	96233929

Installation guide



- Product supplied fully assembled. For lay-in installation, lift product into ceiling
- Fit two wedges externally on one side of body
- Insert locking tee and push down to first position (not fully locked)
- Angle product into ceiling so wedges hook over grid, check product alignment and lock wedge tees. Push up other side to product is aligned (with tile removed)
- Hold product in ceiling with one hand whilst fitting other two wedge from adjacent ceiling tile
- For plasterboard installation, coffers are easily removed for internal access (wedges ordered separately)
- Internally fitted wedges are fitted inside the body (wedges ordered separately), then coffers refitted
- To remove central optic pull down on each side. Replace optic by simply pushing gently back into place
- Allow optic to hang on suspension tags while fitting lamps (if less lamp)
- Electrical connection is achieved by simple plug in connection at the back of the body

Ceiling compatibility

Pallion is compatible with most standard ceiling systems. Please refer to the table below for a quick guide to compatibility. It is always advisable to check ceiling and product dimensions and drawings to ensure compatibility, particularly for non-standard ceilings. For additional guidance on these or any ceiling types not listed, please contact your local representative.

Luminaire	Pallion	Pallion	Pallion
Dimensions (mm)	597x597	600x600	625x625
Ceiling Type:			
Exposed Tee Grids			
15mm lay in	A	A	A
24mm lay in	A	A	A
15mm pull up	B	B	B
24mm pull up	B	B	B
Concealed Fix Grids			
Armstrong Orcal 1800	D	B	D
Armstrong Orcal 3000 Q	C	C	C
Armstrong Orcal 3000 S	B	B	B
SAS 120	D	B	D
SAS 150	C	C	C
SAS Alugrid 15/08	B	B	B
SAS Alugrid 15/16	B	B	B
SAS Alugrid 15/19	B	B	B
SAS Alugrid 25/16	B	B	B
Burgess Clip in	D	B	D
Burgess A Bar	B	B	B
Plasterboard Ceilings	E	B	E

Key

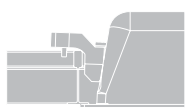
- A** Yes - No additional fixings required
- B** Yes - Mini-wedges required (supplied)
- C** Yes - But product will sit higher than tile
- D** Yes - but only if half spring T option available
- E** Yes - But internal fit wedges required. Order 96218676 separately.



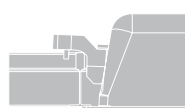
15mm lay-in



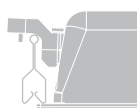
24mm lay-in



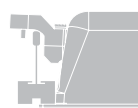
15mm pull-up



24mm pull-up



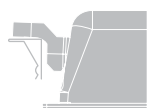
Orcal 3000/
SAS 150



SAS Alugrid



Burgess hook-on



Half spring T
(SAS 120/Orcal 1800/
Burgess Clip in)

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