

AURORA[®]

L I G H T I N G G R O U P

R Series[™]

FIRE RATED DOWNLIGHTS

SUPER QUICK
TOOL-FREE
INSTALLATION

UP
TO 107lm/W

R6[™]

SINGLE COLOUR
3000K or 4000K

R6[™]cs

COLOUR SWITCHABLE
3000K / 4000K / 5700K

R6[™]cws

COLOUR & WATTAGE SWITCHABLE
3000K / 4000K / 5700K • 4W / 6W / 8W

Baffled option available

DETACHABLE DRIVER

SUPPLIED WITH WHITE IP65
POLYCARBONATE BEZEL

make smart with



WW 3000K
CW 4000K
DL 5700K



R6[™]CWS:
Wattage Switchable
4W / 6W / 8W

4W 6W 8W
AURORA
Input 220-240V

SUPER QUICK TOOL-FREE INSTALLATION

Up to 107lm/W

Colour Switchable
between 3000K,
4000K & 5700K



R6TMcws

Detachable, **Wattage Switchable**, Dimmable
Remote LED Driver
(AU-R6CWS / AU-R6CWSBF)

Screwless cable strain relief - simply close the cap to secure the cables

Colour coded loop in, loop out push terminals for fast wiring of either solid or stranded cable



Single Colour
3000K & 4000K
versions

Low Profile for use in shallow voids - 50mm
(baffle version - 75mm)



R6TM

Supplied with white
IP65 polycarbonate bezel

Insulation Coverable
(Downlight & Driver)
300mm Fibre Based



No accessory or insulation
cut-out required



30, 60, 90 minutes (Solid Timber Joists)
30 minutes (i-joists & Metal Web Joists)



R6™ LED Fixed Single Colour Fire Rated Downlights



Fire, acoustic & air leakage rated
Low profile design for shallow ceiling voids (50mm)
Detachable dimmable remote driver
Supplied with white IP65 polycarbonate bezel

Insulation coverable
Patented fire rated downlight without intumescent
Tested in 30, 60 and 90 minute solid timber joist, plus 30 minute i-joists and metal web joist

60° beam angle
Triac dimmable as standard
5 Year Warranty
L70 40,000hrs

Cat. No.	Watts	Colour	Lumens	lm/W	Beam	Cutout [Ø]
R6™ Triac Dimmable Fixed (IP65 when used with IP65 bezel)						
AU-R6/30	6W	3000K	580lm	97	60°	65mm
AU-R6/40	6W	4000K	620lm	103	60°	65mm

Coloured Bezel Options

AU-R6BZ* R6™ Fixed IP65 Polycarbonate Bezel

*Add suffix **MB**, **PC** or **SN** for Matt Black, Polished Chrome or Satin Nickel finishes.



R6cs™ LED Fixed Colour Switchable Fire Rated Downlight



Fire, acoustic & air leakage rated
Colour temperature can be switched between 3000K, 4000K and 5700K
Lumen output ranges from 540lm at 3000K, 640lm at 4000K and 580lm at 5700K
Low profile design for shallow ceiling voids (50mm)

Detachable dimmable remote driver
Supplied with white IP65 polycarbonate bezel
Insulation coverable
Patented fire rated downlight without intumescent
Select colour temperature prior to installation

Tested in 30, 60 and 90 minute solid timber joist, plus 30 minute i-joists and metal web joist
60° beam angle
Triac dimmable as standard
5 Year Warranty
L70 40,000hrs

Cat. No.	Watts	Colour	Lumens	lm/W	Beam	Cutout [Ø]
R6™CS Colour Switchable Triac Dimmable Fixed (IP65 when used with IP65 Bezel)						
AU-R6CS	6W	3000-5700K	540-640lm	107	60°	65mm

Coloured Bezel Options

AU-R6BZ* R6™ Fixed IP65 Polycarbonate Bezel

*Add suffix **MB**, **PC** or **SN** for Matt Black, Polished Chrome or Satin Nickel finishes.





R6TMcws

LED Fixed Colour & Wattage Switchable Fire Rated Downlight



36 COMBINATIONS



Fire, acoustic & air leakage rated
 Colour temperature can be switched between 3000K, 4000K and 5700K
 Wattage switchable between 4W, 6W and 8W
 Low profile design for shallow ceiling voids (50mm)

Detachable dimmable remote driver
 Supplied with white IP65 polycarbonate bezel
 Insulation coverable
 Patented fire rated downlight without intumescent
 Select colour temperature and wattage prior to installation

Tested in 30, 60 and 90 minute solid timber joist, plus 30 minute i-joists and metal web joist
 60° beam angle
 Triac dimmable as standard

5 Year Warranty
L70 40,000hrs

Cat. No.	Watts	Colour	Lumens	lm/W	Beam	Cutout [Ø]
R6TM Colour & Wattage Switchable Triac Dimmable Fixed (IP65 when used with IP65 Bezel)						
AU-R6CWS	4W	3000K	360lm	90	60°	65mm
		4000K	420lm	105	60°	65mm
		5700K	380lm	95	60°	65mm
	6W	3000K	540lm	90	60°	65mm
		4000K	620lm	103	60°	65mm
		5700K	560lm	93	60°	65mm
	8W	3000K	650lm	81	60°	65mm
		4000K	750lm	93	60°	65mm
		5700K	680lm	85	60°	65mm

Coloured Bezel Options

AU-R6BZ* R6TM Fixed IP65 Polycarbonate Bezel

*Add suffix **MB**, **PC** or **SN** for Matt Black, Polished Chrome or Satin Nickel finishes.



R6TMcws

LED Fixed Colour & Wattage Switchable Baffled Fire Rated Downlight



36 COMBINATIONS



Fire, acoustic & air leakage rated
 Baffled design to reduce direct glare
 Colour temperature can be switched between 3000K, 4000K and 5700K
 Wattage switchable between 4W, 6W and 8W

Detachable dimmable remote driver
 Supplied with white IP65 polycarbonate bezel
 Insulation coverable
 Patented fire rated downlight without intumescent
 Select colour temperature and wattage prior to installation

Tested in 30, 60 and 90 minute solid timber joist, plus 30 minute i-joists and metal web joist
 55° beam angle
 Triac dimmable as standard

5 Year Warranty
L70 40,000hrs

Cat. No.	Watts	Colour	Lumens	lm/W	Beam	Cutout [Ø]
R6TM Colour & Wattage Switchable Baffle Triac Dimmable Fixed (IP65 when used with IP65 Bezel)						
AU-R6CWSBF	4W	3000K	260lm	65	55°	75mm
		4000K	300lm	75	55°	75mm
		5700K	290lm	73	55°	75mm
	6W	3000K	390lm	65	55°	75mm
		4000K	450lm	75	55°	75mm
		5700K	420lm	70	55°	75mm
	8W	3000K	470lm	59	55°	75mm
		4000K	560lm	70	55°	75mm
		5700K	500lm	68	55°	75mm

Coloured Bezel Options

AU-R6BFZ* R6TMCWS Fixed IP65 Polycarbonate Baffled Bezel

*Add suffix **MB**, **PC** or **SN** for Matt Black, Polished Chrome or Satin Nickel finishes.

Joist Compliant Fire Rated Downlights

Regulations & Testing - The Importance of Compliance

Fire barriers need to be considered during a construction project to make a safe evacuation possible.

The fire rated downlight is a life saving luminaire specifically designed with fire barriers in mind.

As market leaders in the manufacture of fire rated downlights, Aurora are the first choice for specifiers and installers alike.

Aurora's ranges include a variety of integrated LED and GU10 downlights, offering a solution for every application.



Fully Fire Tested in the UK and EU

Meets NHBC Technical Standards

It is important to note that unlike traditional joists, one test with one i-joist or open web joist manufacturer does NOT give you automatic approval with any other manufacturer. However, it is also acceptable to NHBC Building Control to use the test to demonstrate compliance for other engineered joist floors where the key elements of the test are the same or better.



SCAN HERE
to watch video or visit
auroralighting.com/gb/ijoist



Fire Testing - Common Engineered Joist Types



i-joists

Timber Engineered i-joists, sometimes known as I-Beams, are comprised of a top and bottom timber flange combined with a tall vertical OSB (Oriented Strand Board) web:

- They are strong and lightweight, with enhanced rigidity
- High strength-to-weight ratio for easier handling and on-site installation
- Can be cut to required length on-site and installed more quickly
- Not prone to shrinking or warping, resulting in a quieter floor construction
- Can be manufactured in greater lengths, reducing the need for columns & beams
- Allows for larger spaces, satisfying the trend for open-plan living areas in homes



Metal Web Joists

Metal Web Joists are constructed with a top and bottom stress graded timber cord, plated together with high strength open metal web sections on either side of the top and bottom timber flanges:

- Have an open central section for ease of installation of services
- Different lengths available to allow for longer spans
- Ideal for open-plan spaces within residential buildings
- Less timber means less shrinkage
- Manufactured to length off-site
- Timber cords should never be cut or drilled on-site
- The metal webs should never be cut or removed, as this will reduce strength



Solid Timber Joists

Softwood joists are ideal for smaller projects, such as extensions, small dwellings or where relatively short spans are involved:

- Traditional method for building floors using solid timber
- Strength Grading of joists is done by machine to British Standard EN 14081 to classes C16 or C24
- There are actually 12 Strength Classes available in Europe, but the UK mainly uses C16 and C24
- The Strength Class of the joist is very important when determining which joist to use for your project. It will help you identify which joist dimensions to use for a particular span and loading situation

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