SD583 – EDGE – LIT

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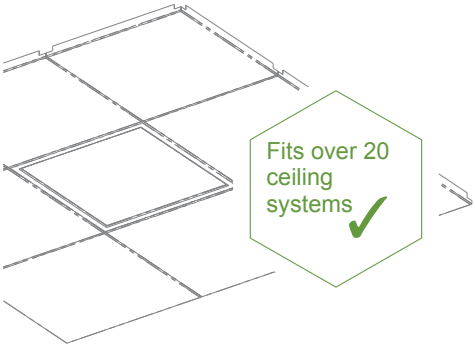
- **SD583 is an Edge – lit, low profile recessed luminaire, finished RAL9010 to suit a very wide range of ceilings, including SAS120, SAS130, SAS150, metal pan and fibre tile ranges**
- **Brackets and frames allow integration into the majority of modern ceilings**
- **The SD583 has been designed and manufactured with both users and installers in mind**
- **Long life, high quality components, technical and regulatory compliance and easy install mean reduced costs on install and through life, 60% more effecient than economy products**
- **SAVES ENERGY AND MONEY 60% MORE EFFICIENT THAN COMMODITY PANELS and up to 17% MORE EFFICIENT THAN SPECIFICATION OPTIONS**

Sd583	Commodity Panel	Specification Option
130 LL/CW - Highest Efficiency	80 - 100 LL/CW - WORST Efficiency	110 - 120 LL/CW
L70 - 60.000 hrs	L70 - 30.000 hrs	L70 - 50.000 hrs
UGR below 19	UGR often not quoted	Possible but not standard
TpA Rated	NOT TpA, often not even TpB	Typically TpB rated
SDCM < 3	SDCM < 5 or even 6	SDCM < 3
Fits over 20 different ceiling systems *	15 or 24mm exposed Tee	Designed for each order extending delivery time
Large stocks held and competitive prices and short lead time	Typically stock	Made to project order and typically expensive

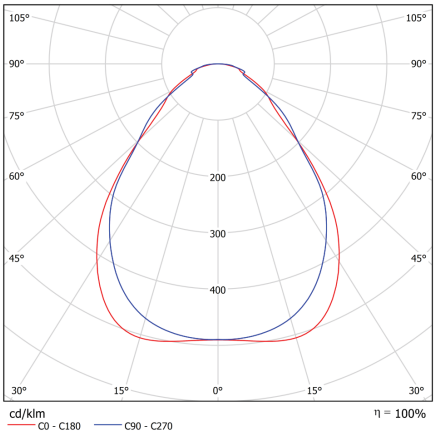
** With optional frames and brackets for each ceiling system*



- **4048 lumens → 31W ***
- **Very high efficiency – 130 LL/CW ***
- **UGR below 19** – as BS-EN12464. British council for offices and CIBSE LG7
- **TpA rated controller** – can be used on dedicated emergency exit routes
- **Long life** – L70, 60,000 hrs
- **Excellent colour consistency – SDCM3.** Most panels are SDCM 5 or 6
- **4000 K RA80**
- **Fits very wide range of ceilings**
- **DALI 2 certified and tested drivers**
- **ICEL approved emergency kits**

** This includes all system losses*

Glare Evaluation Accoding to UGR											
ρ ceiling		70	70	50	50	30	70	70	50	50	30
ρ walls		50	30	50	30	30	50	30	50	30	30
ρ floor		20	20	20	20	20	20	20	20	20	20
Room Size X	Y	Viewing direction at right angles to lamps axis					Viewing direction parallel to lamps axis				
2H	2H	13.9	15.0	14.1	15.2	15.4	13.7	14.8	13.9	15.0	15.2
	3H	15.0	16.0	15.3	16.3	16.5	14.8	15.8	15.1	16.0	16.3
	4H	15.7	16.6	16.0	16.9	17.2	15.8	16.7	16.1	17.0	17.2
	6H	16.4	17.2	16.7	17.5	17.8	16.5	17.4	16.9	17.7	18.0
	8H	16.6	17.4	16.9	17.7	18.0	16.9	17.7	17.2	18.0	18.3
	12H	16.7	17.5	17.1	17.8	18.2	17.2	18.0	17.6	18.3	18.6
4H	2H	14.1	15.1	14.5	15.4	15.6	14.0	14.9	14.3	15.2	15.5
	3H	15.6	16.4	16.0	16.7	17.0	15.5	16.3	15.8	16.6	16.9
	4H	16.5	17.2	16.9	17.6	17.9	16.7	17.4	17.1	17.7	18.1
	6H	17.4	18.0	17.8	18.4	18.8	17.6	18.2	18.0	18.6	19.0
	8H	17.7	18.3	18.1	18.6	19.1	18.0	18.6	18.5	19.0	19.4
	12H	17.9	18.4	18.4	18.8	19.3	18.5	19.0	18.9	19.4	19.8
8H	4H	16.9	17.5	17.4	17.9	18.3	17.1	17.6	17.5	18.0	18.4
	6H	18.0	18.4	18.4	18.9	19.3	18.2	18.6	18.6	19.1	19.5
	8H	18.4	18.8	18.9	19.2	19.7	18.7	19.1	19.2	19.6	20.1
	12H	18.7	19.1	19.2	19.5	20.0	19.3	19.6	19.8	20.1	20.6
12H	4H	17.0	17.5	17.4	17.9	18.3	17.1	17.6	17.5	18.0	18.4
	6H	18.1	18.5	18.6	19.0	19.4	18.3	18.7	18.8	19.1	19.6
	8H	18.6	18.9	19.0	19.4	19.9	18.9	19.2	19.4	19.7	20.2
Variation of the observer position for the luminaire distances S											
S = 1.0H S = 1.5H S = 2.0H		+0.3 / -0.4 +0.5 / -0.6 +1.1 / -1.1					+0.2 / -0.2 +0.3 / -0.7 +0.9 / -1.2				
Standard table		Bk05					Bk06				
Correction Summand		-3.7					-3.0				
Corrected Glare Indices referring to 4048lm Total Luminous Flux											



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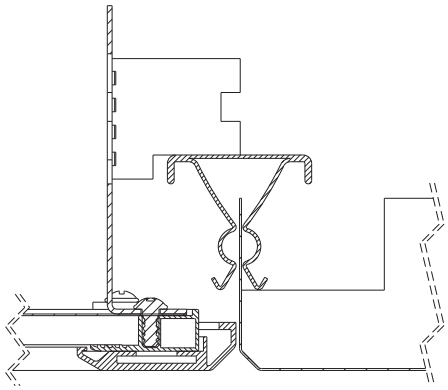
CEILING INTEGRATION



SAS 120 / EXT1 installation section

- The SD583/40/27W is designed to fit a wide range of ceilings.
  Many of the brackets and frames are held in stock for quick turnaround.
- Stock luminaires are finished **RAL 9010 20%**
- Colour match ceiling

SAS130 – also called "Alugrid" or Block ceiling.
Model 1508, 1516, 1519

SAS120 – concealed grid, metal pan, wide tee.

SAS150 – concealed grid, metal pan, narrow tee.

Additional frames for either SAS 120 or SAS 150

EXT 1 – 5mm bevelled

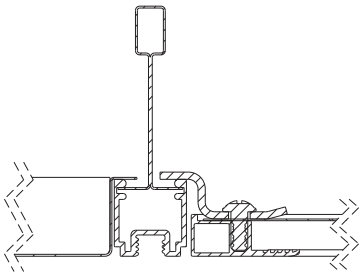
EXT 2 – standard tile

SD583 with EXT 1 EXT 2 can fit

Armstrong,

Burgess,

Dampa.



SAS 130 / 1516 installation section

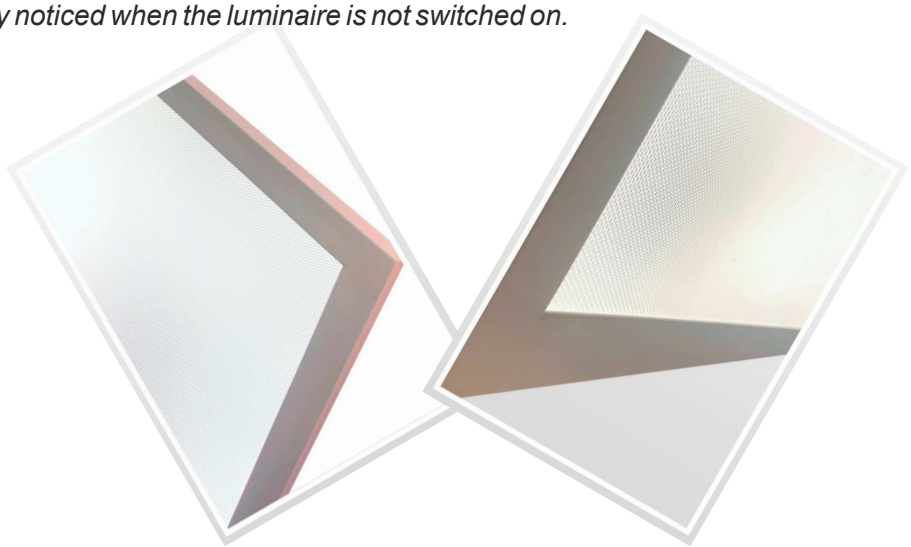
We can supply PDF, DWG and SolidWorks files for each ceiling system we integrate to.

EXT 1 and EXT 2 are compatible with these ceilings however please contact us to ensure correct bracket system is used.

CEILING TILES

- **Ceilings the SD583/40/27W will fit but <u>not</u> colour match ***
- **Armstrong design grids (looks like SAS130)**
- **Flat Tee (Exposed Tee) 15 mm or 24 mm**

** The SD583/40/27W is RAL 9010 20% the ceilings listed above are typically Euro-white on RAL 9003/9016. The colour difference is only typically noticed when the luminaire is not switched on.*



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PRODUCT REFERENCES

Standard reference applied: *D583/40/27W*

Drivers	Reference
Standard driver fixed output	/ **DR**
DALI driver - DALI 2	/ **DALI 2**
Dali driver - with push dim and 1-10V dimming - DALI 2	/ **Ud2** *(supplied as DALI switch)* *

DR

DALI 2 / Ud2

* *If alternative switch method is required please advise at order stage*

Emergency	Reference	Comments
Standard emergency	/ **3LED**	• All emergency kits ICEL approved • LED charge indication fitted with luminaire bezel • All output data independently verified • Plug and play - no on site assembly
DALI monitored	/ **3MDM**	

Ceiling System	Reference
SAS130 / 1508	/ **L6**
SAS130 / 1516	/ **L7**
SAS130 / 1519 **	/ **L19**
SAS120 - Bevel tile	/ **L31**
SAS120 - Standard tile	/ **L32**
SAS150 - Bevel tile	/ **L41**
SAS150 - Standard tile	/ **L42**
15 or 24mm * Flat Tee	/ **L10**
Amstrong Design * Grid Types	/ **L9**
Plaster board	/ **PB**
Surface Option	/ **SUR**

LED indicator light

All drivers have a short stripped lead (200mm)

- Fixed output (L/N)
- DALI (L/N 2x DALI)

We can supply fitted a 2 part plug assembly for ease of installation:

Drivers	Reference
3 pole (L/N- E termination)	/ **3pfm**
DALI driver - DALI 2	/ **5pfm**

3PFM

5PM

5PFM

5PF

* *Ceiling type L9 +L10 are RAL9003 - our product is not an exact match on colour*
** *Luminaire stock item, brackets to order*

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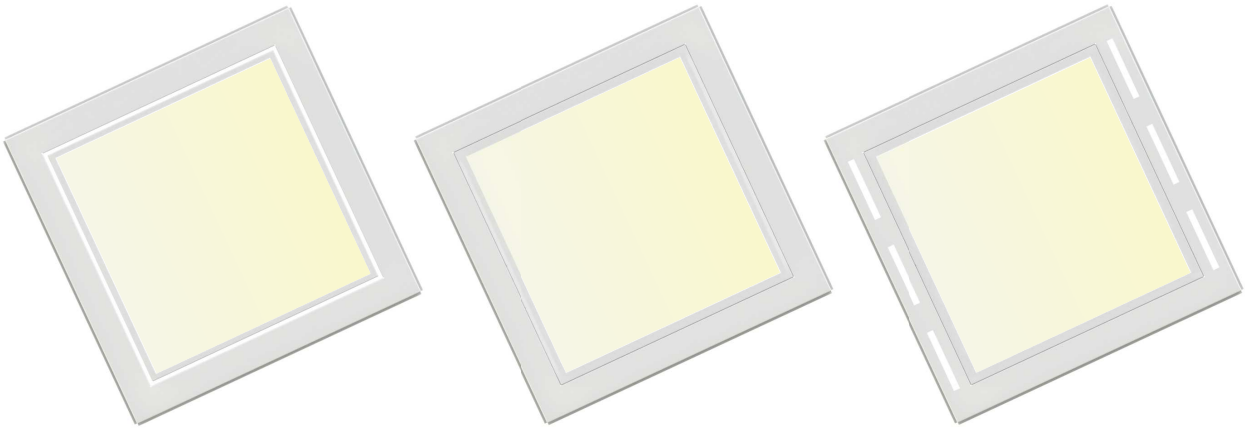
BEZEL ACCESSORIES FOR 750MM CEILING SYSTEMS

Ceiling system	B1	B2	B3
SAS 130 1508	B1/1	B2/A	B3/Z
SAS 130 1516	B1/2	B2/B	B3/Y
SAS 130 1519	B1/3	B2/C	B3/X
SAS 130 2516	B1/4	B2/D	B3/W
SAS 120 - standard	B1/5	B2/F	B3/V
SAS 120 - bevelled	B1/6	B2/G	B3/T
SAS 150 - standard	B1/7	B2/H	B3/S
SAS 150 - bevelled	B1/8	B2/I	B3/Q

- Bezels to suit nom 750x750mm ceilings.
- Three styles, subject to minimum quantities and are NOT a stock item.
- To suit SAS120, SAS130 and SAS150 ceiling systems.
- Types for SAS130 are lift and TILT ON on 4 sides for grid system.
- SAS120 and SAS150 are supported with brackets (Access from adjacent grid is required).
- Other brands including Burgess and Dampa can be made.



B1 *B2* *B3*

B1 and B3 are return Air handling with 40 lts/sec @ velocity of 1.8 m/s

Our products have been indepently tested.

SDHL1811027164FB

Emergency kits are manufactured by an ICEL and DALI registered manufacturer – ensuring peace of mind and full compliance.
Our products have been independently tested.

Warranty up to 5 years on Drivers and luminaires, Batteries 1 year. Please refer to our full warranty information for specific terms including return to base policy, site attendance policy and exclusions or chargebacks

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CEILING INTEGRATION

Ceiling system	Fitting	Brackets	Notes
SAS 130 1508	stock	stock	RAL9010
SAS 130 1516	stock	stock	RAL9010
SAS 130 1519	stock	to order	RAL9010
SAS 120 standard tile SAS 150 standard tile	stock	stock	Request drawings to confirm Tee height etc.
SAS 120 Bevel tile SAS 150 Bevel tile	stock	stock	As above, Bevel on frame 5mm
15mm Flat Tee Various manufacturers	stock	stock	Bracket for 15 or 25mm Tee is universal Note: - Luminaire RAL9010 Bezel Trim is visible - does not match colour of grid
25mm Flat Tee	stock	stock	Comments as above
Armstrong Prelude 15TL / 15XL^2	stock	stock	Luminaire RAL9010 Ceiling RAL9003 Bezel Trim is visible Drop matches tile - Similar to SAS130
Armstrong Design grid silhouette 6mm - XL^2	stock	stock	Luminaire RAL9010 Ceiling RAL9003 Matches grid - does not match colour grid
Armstrong design grid interlude HRC	stock	stock	As above
Donn fineline (45mm)	stock	stock	As above
Plasterboard	stock	stock	Request cutout size
Surface	stock	stock	Surface body is RAL9010
Burgess Tegular 585 - 8mm drop	stock	stock	Fitting RAL9010 - Ceiling typically RAL9010 - Similar to SAS130
Burgess Tegular 585 - 16mm drop	stock	stock	As above
Burgess 24mm Tee - Tegular	stock	stock	Luminaire fits ceiling but does not match drop on tile
Burgess spring Tee system Dampa system	stock	to order	Body and frame will fit ceiling, bevel may differ (5mm on our frame). We would require measurable CAD drawing of ceiling system to confirm integration. - Brackets to order
Armstrong metal concealed grid	stock	to order	As above - measurable CAD drawing of specific ceiling system is required - Brackets to order
Nominally 750mm x 750mm	Panel - stock	TBC	Bezel types B1, B2, B3 can be produced to suit specific project ceilings. Notes: Minimum qty requirement applies Full details of project ceiling inc measurable CAD drawing required. Install method to be agreed.
	Frame - order		

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FRAMES FOR CONCEALED GRID CEILINGS, SAS120, SAS150, ARMSTRONG OR BURGESS