

**TRILUX**  
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## FIDESCA G3 PLANNING EXAMPLES

THE FUTURE OF  
SAFE CLEANROOMS

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## HEALTH & CARE



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## INDUSTRY



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HEALTH & CARE

OR



# O ARRANGEMENT, D3



## Basis for the planning example:

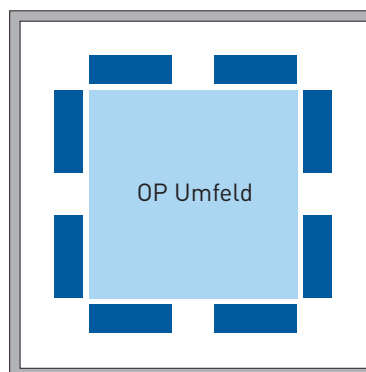
Room dimensions (L x W) ..... 5 x 5 m  
 OR environment (L x W) ..... 3 x 3 m  
 Ceiling height ..... 2,9 - 3,3 m

## Standard requirement

Room .....  $\bar{E} \geq 1000 \text{ lx} - U_0 \geq 0,60$   
 OR environment .....  $\bar{E} \geq 1000-2000 \text{ lx} - U_0 > 0,70$

## Further requirements

- CRI 90
- laminated safety glass
- simple refurbishment, ideal cleaning
- aerodynamics
- virus and bacteria-proof → germ resistance



■ Fidesca-PM ZER 354



Situation	Quantity	TOC	Reference	Description
<b>1:1 refurbishment on existing frames</b>	8	76 801 51	FidescaPM G3 D3 PW19 103-940 ETDD	Surface-mounted LED cleanroom luminaire for applications with high demands in terms of hygiene and operational safety, with symmetric wide light distribution, UGR < 19
<b>New frames for new projects</b>	8	48 410 00	Fidesca-PM ZER 354	Individual recessing frame for Fidesca-PM 412/1248 LED, Fidesca-PM D3. Frame of extruded aluminium profile, white, powder-coated. Stop angle for ceiling construction material 25 mm high.



# DOUBLE-U ARRANGEMENT, D4



## Basis for the planning example:

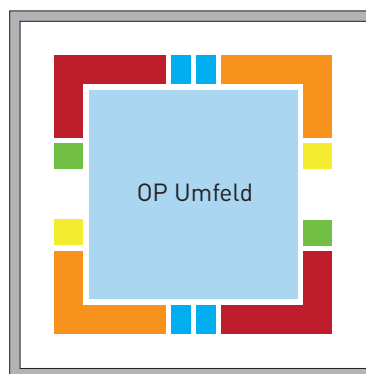
Room dimensions (L x W) ..... 5 x 5 m  
 OR environment (L x W) ..... 3 x 3 m  
 Ceiling height ..... 2,9 - 3,3 m

## Standard requirement

Room .....  $\bar{E} \geq 1000 \text{ lx} - U_0 \geq 0,60$   
 OR environment .....  $\bar{E} \geq 1000-2000 \text{ lx} - U_0 > 0,70$

## Further requirements

- CRI 90
- laminated safety glass
- simple refurbishment, ideal cleaning
- aerodynamics
- virus and bacteria-proof → germ resistance

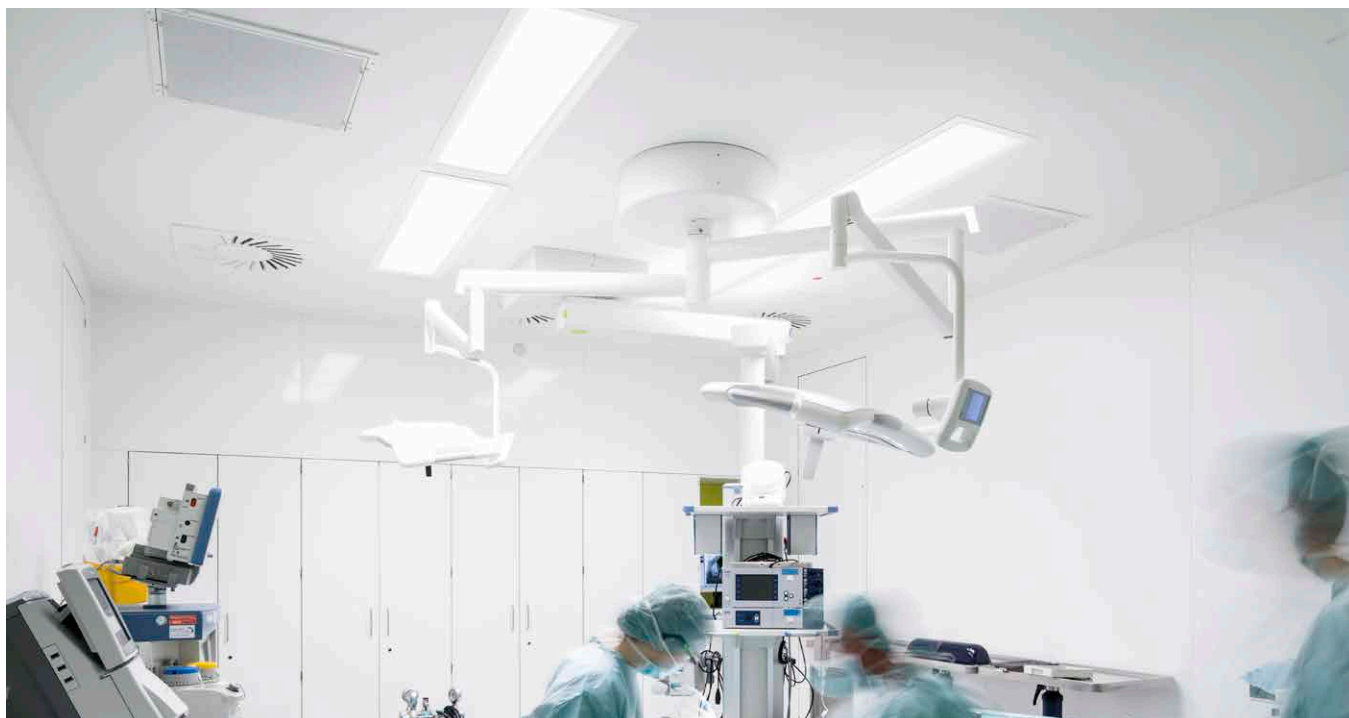


- Fidesca-PM ZER 3P-LI
- Fidesca-PM ZER 354 WL
- Fidesca-PM ZER 3P
- Fidesca-PM ZER 354 WR
- Fidesca-PM ZER 3P-RE



Situation	Quantity	TOC	Reference	Description
<b>1:1 refurbishment on existing frames</b>	8	76 804 51	FidescaPM G3 D4 PW19 124-940 ETDD	Surface-mounted LED cleanroom luminaire for applications with high demands in terms of hygiene and operational safety, with symmetric wide light distribution, UGR < 19
<b>New frames for new projects</b>	4	48 420 00	Fidesca-PM ZER 3P	Adapter piece for Fidesca-PM 412/1548 LED, Fidesca-PM D4. Must be used in combination with angle recessing frame. Frame made of extruded aluminium profile, white, stop angle for ceiling material 25 mm high.
	2	48 419 00	Fidesca-PM ZER 354 WR	Angle recessing frame, right, for Fidesca-PM 412/1248 LED, Fidesca-PM D3/D4. Frame made of extruded aluminium profile, white, stop angle for ceiling material 25 mm high.
	2	48 418 00	Fidesca-PM ZER 354 WL	Angle recessing frame, left, for Fidesca-PM 412/1248 LED, Fidesca-PM D3/D4. Frame made of extruded aluminium profile, white, stop angle for ceiling material 25 mm high.
	2	48 427 00	Fidesca-PM ZER 3P-LI	Adapter piece, left, for Fidesca-PM 412/1548 LED, Fidesca-PM D4. Must be used in combination with angle recessing frame. Frame made of extruded aluminium profile, white, stop angle for ceiling material 25 mm high.
	2	48 428 00	Fidesca-PM ZER 3P-RE	Adapter piece, right, for Fidesca-PM 412/1548 LED, Fidesca-PM D4. Must be used in combination with angle recessing frame. Frame made of extruded aluminium profile, white, stop angle for ceiling material 25 mm high.

# DOUBLE-I ARRANGEMENT, D4



## Basis for the planning example:

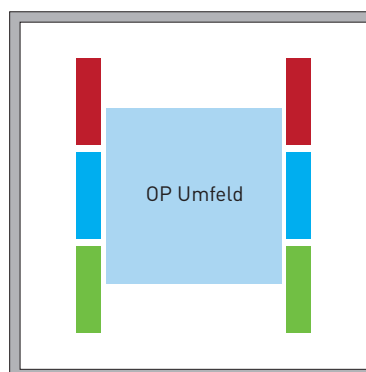
Room dimensions (L x W) ..... 6 x 6 m  
 OR environment (L x W) ..... 3 x 3 m  
 Ceiling height ..... 2,9 - 3,3 m

## Standard requirement

Room .....  $\bar{E} \geq 1000 \text{ lx} - U_0 \geq 0,60$   
 OR environment .....  $\bar{E} \geq 1000-2000 \text{ lx} - U_0 > 0,70$

## Further requirements

- CRI 90
- laminated safety glass
- simple refurbishment, ideal cleaning
- aerodynamics
- virus and bacteria-proof → germ resistance



- Fidesca-PM ZER 349 A
- Fidesca-PM ZER 349 MI
- Fidesca-PM ZER 349 E



Situation	Quantity	TOC	Reference	Description
<b>1:1 refurbishment on existing frames</b>	6	76 804 51	FidescaPM G3 D4 PW19 124-940 ETDD	Surface-mounted LED cleanroom luminaire for applications with high demands in terms of hygiene and operational safety, with symmetric wide light distribution, UGR < 19
<b>New frames for new projects</b>	2	48 415 00	Fidesca-PM ZER 349 A	Start mounting frame for Fidesca-PM 412/1548 LED. Frame made of extruded aluminium profile, white, stop angle for ceiling material 25 mm high
	2	48 416 00	Fidesca-PM ZER 349 E	End recessing frame for Fidesca-PM 412/1548 LED. Frame made of extruded aluminium profile, white, stop angle for ceiling material 25 mm high.
	2	48 417 00	Fidesca-PM ZER 349 MI	Central recessing frame for Fidesca-PM 412/1548 LED. Frame made of extruded aluminium profile, white, powder-coated. Stop angle for ceiling material 25 mm high.

## HEALTH & CARE

LABORATORY/  
PHARMACEUTICALS







## Basis for the planning example:

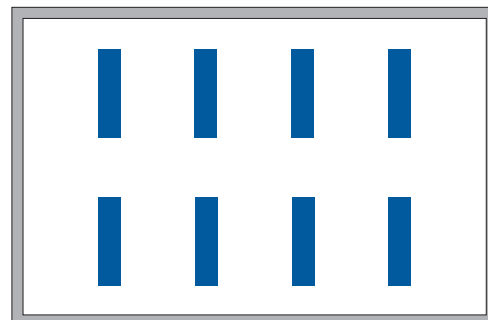
Room dimensions (L x W) .....6,25 x 4 m (25 m<sup>2</sup>)  
 Ceiling height .....4 m  
 Ceilings for recessing

## Standard requirement

Room .....  $\bar{E} \geq 1000 \text{ lux} - U_0 \geq 0,60$   
 Colour control .....  $\bar{E} \geq 1000 \text{ lux} - U_0 > 0,70$

## Further requirements

- simple cleaning
- ceilings for recessing
- solid glare reduction (UGR < 19)



■ FidescaSD G3 M46 PW19 69-940 ETDD



Quantity	TOC	Reference	Description
8	76 830 51	FidescaSD G3 M46 PW19 69-940 ETDD	Rectangular recessed LED luminaire for OR areas and manufacturing areas with high requirements in terms of hygiene and air purity, with symmetric wide light distribution. Glare rating according to UGR categorisation (EN 12464-1) < 19

INDUSTRY

INDUSTRIAL CLEANROOM



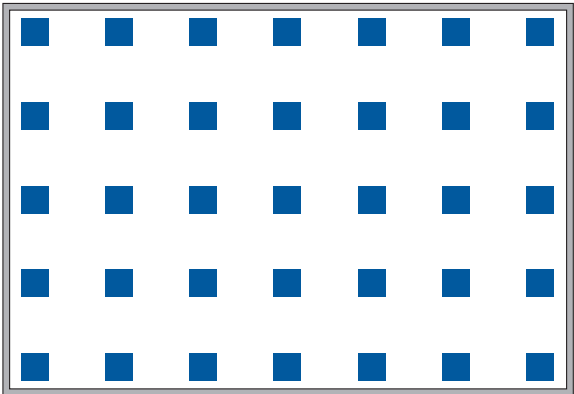




**Basis for the planning example:**  
 Room dimensions (L x W) ..... 12,50 x 8,5 m  
 Ceiling height ..... 4 m

**Standard requirement**  
 Room .....  $\bar{E} \geq 1000 \text{ lx} - U_o \geq 0,70$   
 Colour control .....  $\bar{E} \geq 1000 \text{ lx} - U_o > 0,70$

**Further requirements**  
 – Recessing/surface-mounting  
 – Refurbishment of 42 conventional luminaires in grid ceiling (625 x 625)  
 – CRI > 90



■ FidescaSD G3 M84 DL 55-940 ETDD

Quantity	TOC	Reference	Description
35	76 818 51	FidescaSD G3 M84 DL 55-940 ETDD	Square recessed LED luminaire for OR areas and manufacturing areas with high requirements in terms of hygiene and air purity, with Lambertian light distribution. Glare rating according to UGR categorisation (EN 12464-1) < 22

INDUSTRY

FOOD PRODUCTION

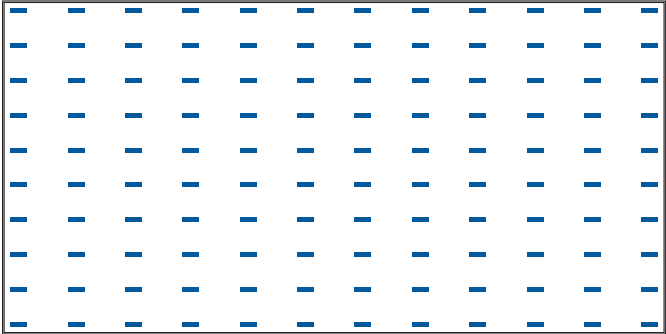




**Basis for the planning example:**  
Room dimensions (L x W) ..... 30 x 60 m  
Ceiling height ..... 8 m

**Standard requirement**  
Room .....  $\bar{E} \geq 150\text{-}750\text{ lux} - U_0 \geq 0,60$

**Further requirements**  
– simple refurbishment  
– CRI > 90 (final inspection), otherwise CRI > 80  
– HACCP  
– simple hygiene



■ FidescaSD G3 D4 DL 130-840 ETDD

Quantity	TOC	Reference	Description
88	76 844 51	FidescaSD G3 D4 DL 130-840 ETDD	Rectangular surface-mounted LED ceiling luminaire for OR areas and manufacturing areas with high demands in terms of hygiene and air purity, with Lambertian light distribution, suitable for applications in HACCP, IFS Version 6 and/or BRC Global Standard Food Version 7 certified companies in the food and beverage industry. Luminaire with limited surface temperature suitable for use in in locations exposed to fire hazards according to DIN EN 60598-2-24 (D identification)