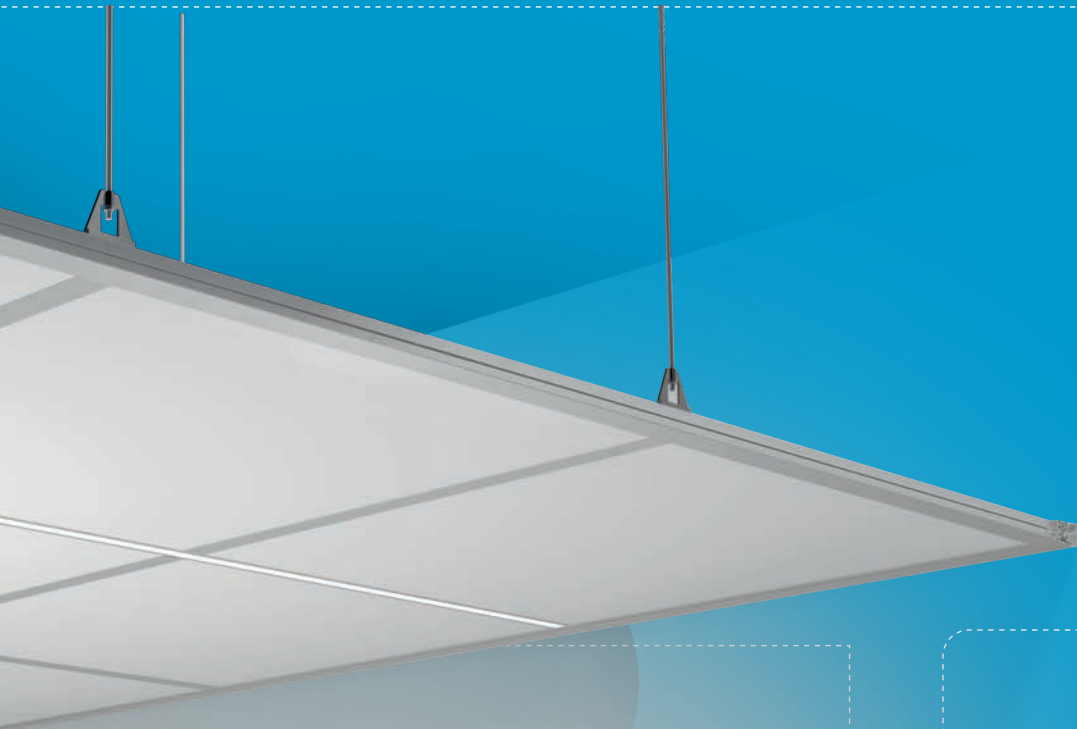


cleanroom ceiling system

Pureness with a system.



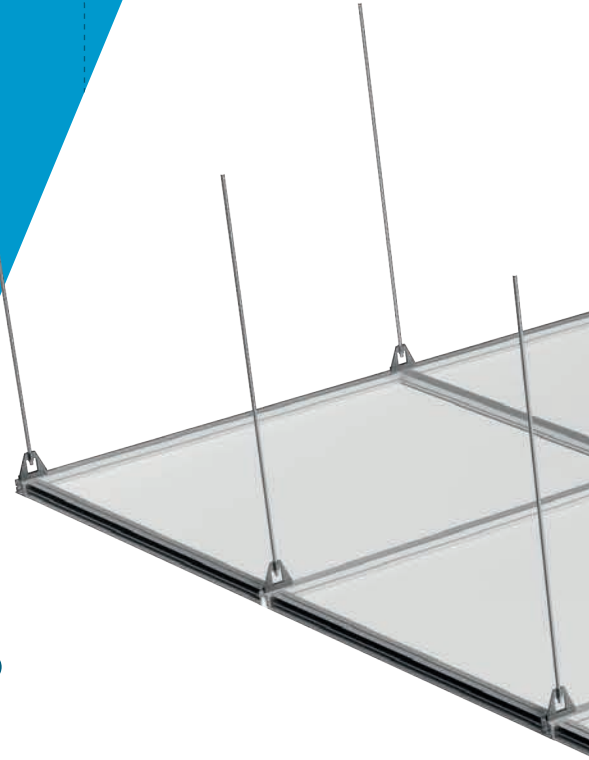


mission pure ness.

➤ Ceiling system	04
➤ Technical Features	06
➤ Sample Project	10
➤ Components	14
➤ Technical Information	20



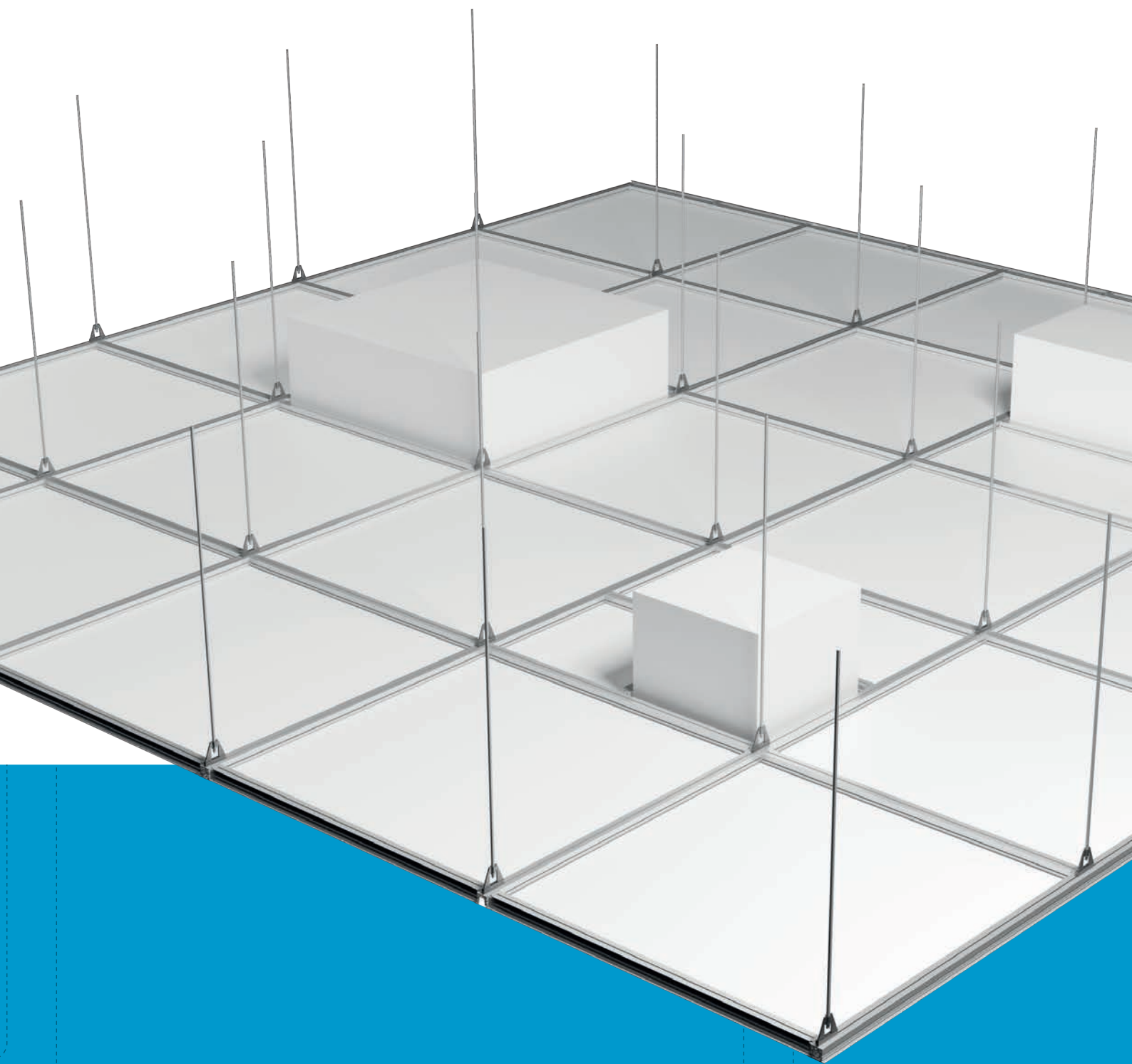
modular. flexible. particle free.



For electronics and semiconductors.

The innovation and production cycles of the electronics and semiconductor industry are extremely short. Not only does this create constant demand for new machinery, but also new cleanrooms. Hence, three requirements are prerequisite: modularity, flexibility, and cleanroom suitability. Guaranteed through a standardized system with many modules: reusable, expandable and quick delivery for fast conversions in pure conditions.

↗ Ceiling system





➤ Technical Features

Ceiling system



Our ceiling systems offer an individually adjusted contamination control for all cleanroom classes. They are modularly expandable and easily fitted with lights and filters. All ceiling systems comply with the EN ISO 14644-4 cleanroom specification and are certified by the Fraunhofer institute.

Light ceiling:

- modularly constructed grid ceiling
- light weight, quick and easy assembly

Ceilings with 100 kg/m² single load:

- modularly constructed grid ceiling
- can be walked on for maintenance work
- machinery can be mounted to the ceiling and above the cleanroom

Ceilings with 200 kg/m² single/point load:

- modularly constructed cassette ceilings
- can be walked on for maintenance work
- heavy machinery can be mounted to the ceiling and above the cleanroom

Technical data

- extrusion depth and height and grid size in different versions
- anodized aluminium ceiling extrusions
- different ceiling panels, single or double

Application areas:

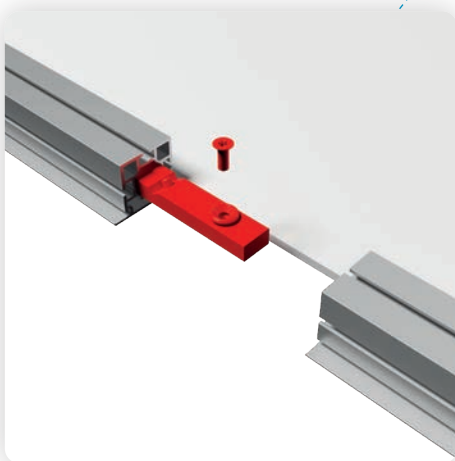
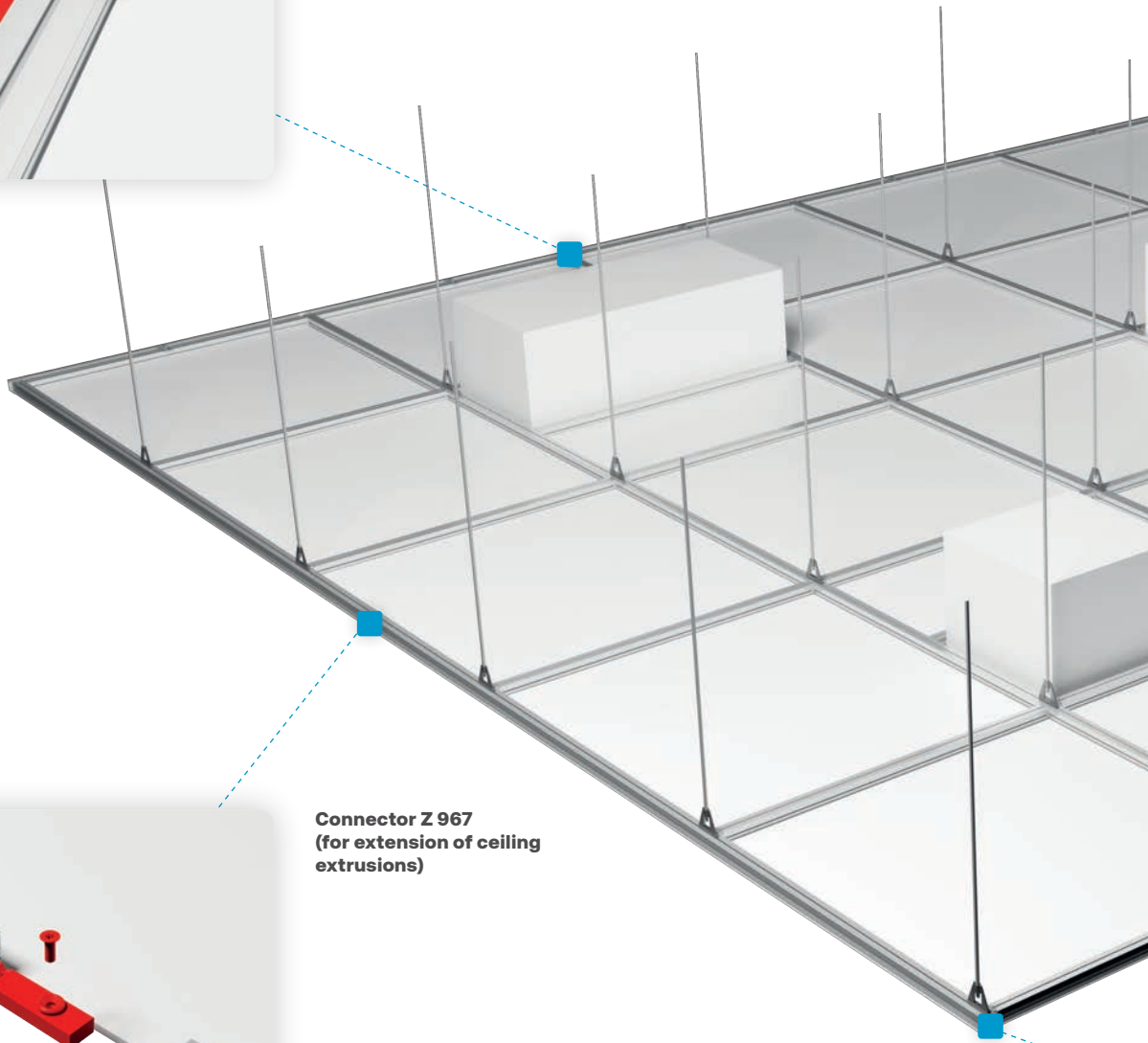
- semiconductor industry
- car industry
- microelectronics
- nanotechnology
- optics
- solar industry
- aerotechnics
- MEMS
- medical technology
- mechanical engineering





Ceiling bracket C 670
(to attach the ceiling
construction to wall on site)

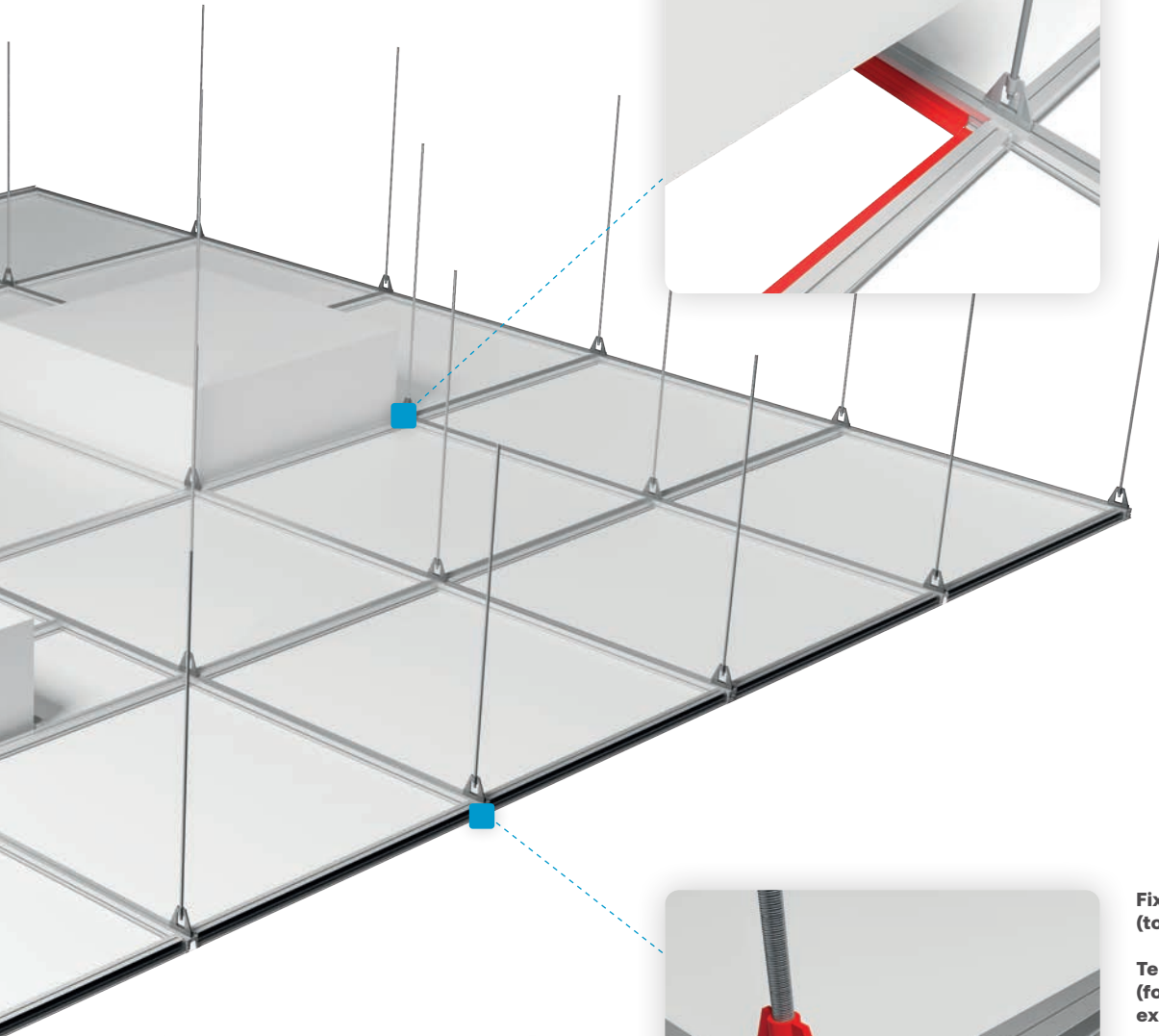
Ceiling clamp C 675
(to secure ceiling extrusion to
ceiling bracket)



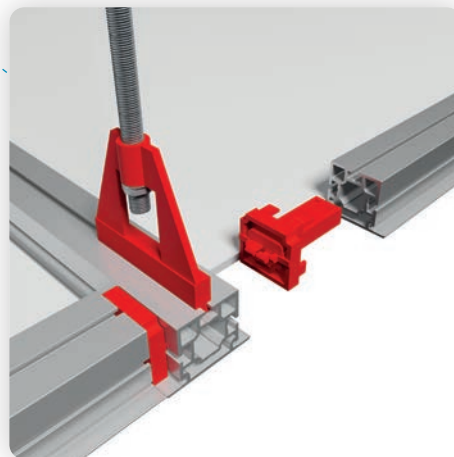
Connector Z 967
(for extension of ceiling
extrusions)

➤ Technical Features

Ceiling system



Support extrusion C 613
(for installation of FFUs or
lights on site: extrusion is
swiveled in to groove and
allows later revision of
components or installations)



Fixing set C 660
(to suspend ceiling extrusions)

Tension lock set C 624
(for connections of ceiling
extrusions at an angle of 90°)



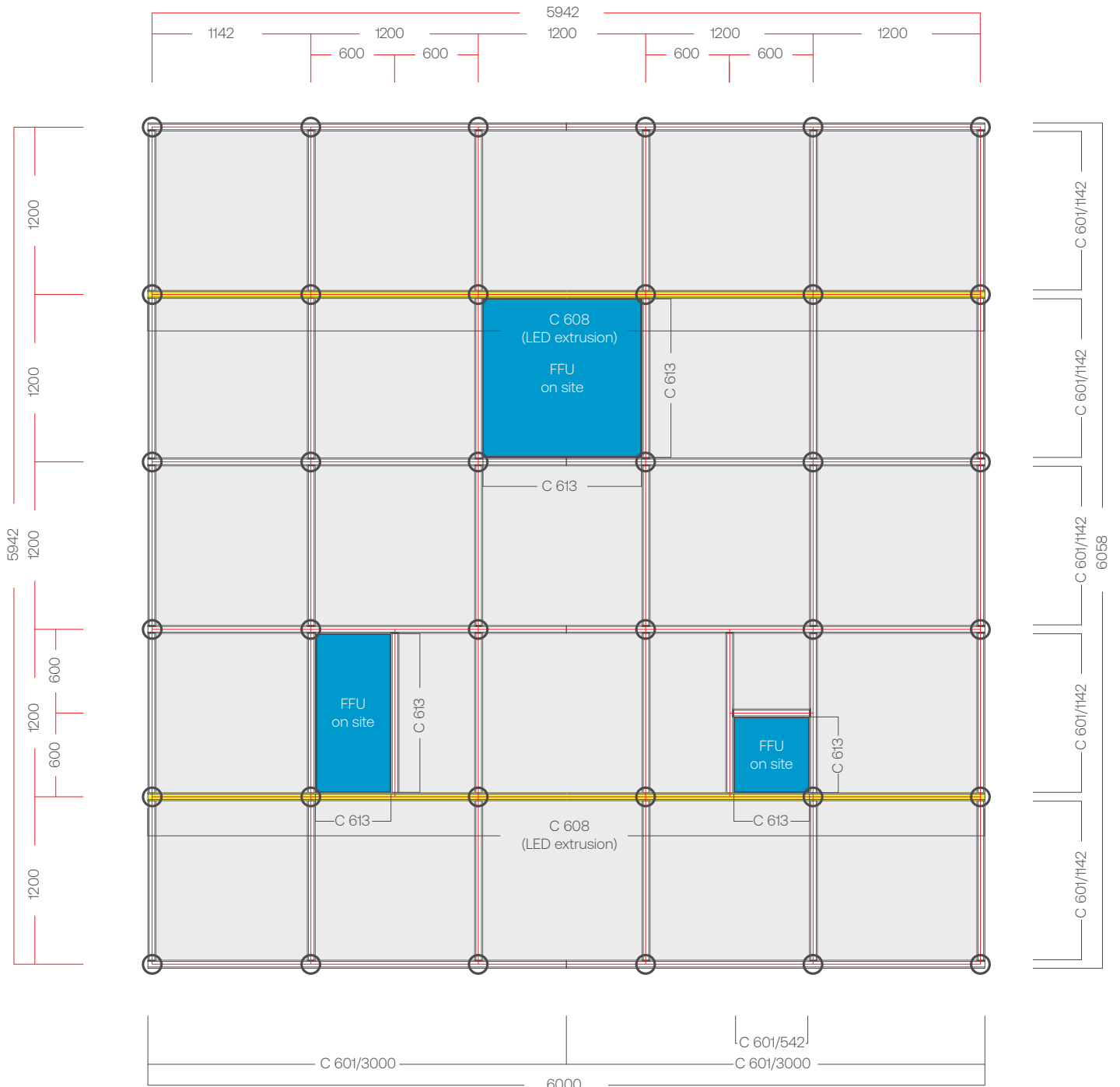
Ceiling extrusion C 601



Parts list (sample ceiling 6000 × 6000 mm)

Article	Description	Quantity
C 601/3000	Ceiling extrusion 3000 mm	8
Z 967	Connector ceiling extrusion C 601/3000	4
C 601/1154	Ceiling extrusion 1154 mm incl. 2 × tension lock set C 624	32
C 601/554	Ceiling extrusion 554 mm incl. 2 × tension lock set C 624	1
C 608	Ceiling extrusion LED 6000 mm	2
C 610/1500	LED strip 1500 mm	8
C 610/C	LED fixing clip	12
C 637/2000	LED cover extrusion 2000 mm	6
OL 98/2	LED power supply	2
C 660	Fixing set	36
C 663	Thread rod M8 length 3000 mm, for fixing set C 660	36
C 613	Support extrusion 6000 mm	4
	Crop: 1142 mm	2
	Crop: 1090 mm	4
	Crop: 542 mm	2
C 626-6	Panel 1152 × 1152 mm	17
	Crop: 1152 × 1094 mm	5
	Crop: 1152 × 552 mm	2
	Crop: 552 × 552 mm	1
C 730	Clip for panel	100
C 175-1	Gasket 8 × 1 mm length 60 m, for ceiling panel	2

Top view (sample ceiling 6000 × 6000 mm)



- = Grid extrusions
- = Ceiling extrusion C 601
- = Ceiling extrusion C 608
- = Fixing set C 660
- = FFU on site
- = Panel 6 mm





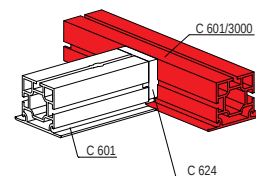
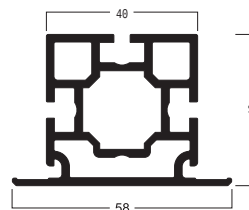
Ceiling extrusion 3000 mm



C 601/3000.01

Aluminium | for ceiling construction with grid of 1200 × 1200, 600 × 1200 and 600 × 600 mm, 2 × drilling of connector Z 967

4.35 kg | 3000 mm



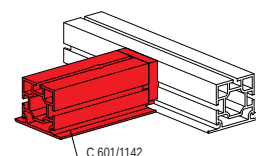
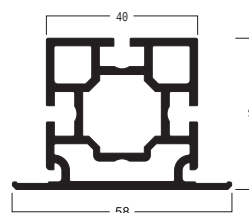
Ceiling extrusion 1142 mm



C 601/1142.01

Aluminium | for ceiling construction with grid of 1200 × 1200 and 600 × 1200 mm, 2 × tension lock set C 624

1.78 kg | 1142 mm



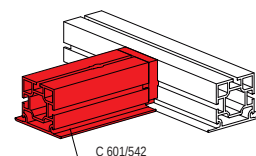
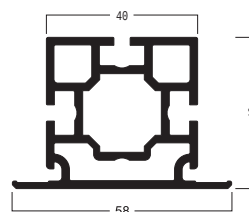
Ceiling extrusion 542 mm



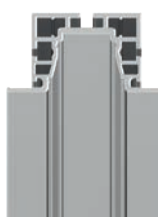
C 601/542.01

Aluminium | for ceiling construction with grid of 600 × 1200 and 600 × 600 mm, 2 × tension lock set C 624

0.21 kg | 542 mm



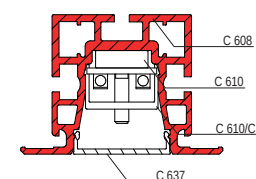
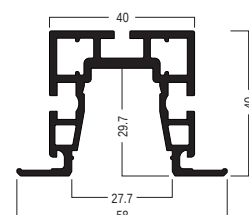
LED ceiling extrusion 6000 mm



C 608.01

Aluminium | for ceiling construction, with opening for LED strip C 610, in combination with LED cover extrusion C 637

7.32 kg | 6000 mm



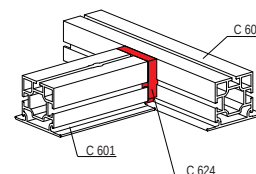
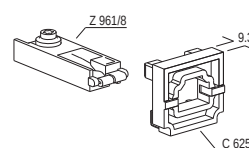
Tension lock set for ceiling extrusion



C 624

Aluminium | for ceiling construction, tension lock Z 961/8 incl. plastic adaptor C 625 for compensation of supporting area of 9 mm of ceiling extrusion

0.06 kg



Ceiling system

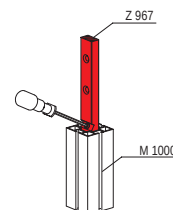
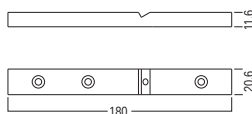
Connector straight



Z 967.90

Aluminium | for connection of two ceiling extrusions C 601, incl. 1 × set screw Z 967/20 (M6), 2 × countersunk screw E 111/m (M6), 2 × countersunk screw M 1102/20 (M6), 2 × washer Z 18

0.13 kg



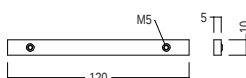
Connector LED straight, for C 608



C 638.90

Aluminium | for connection of two LED ceiling extrusions C 608, incl. 2 × clamping screw M5

0.05 kg



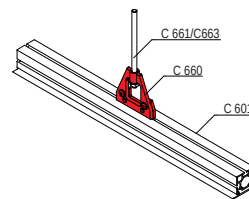
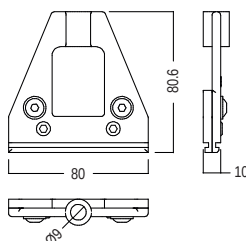
Fixing set for system groove



C 660.90

Zinc diecasting/steel | for suspension of cleanroom ceiling with thread rod M8, consisting of part A and B, to attach to system groove 4.3 mm, incl. 2 × flange head screw M 1557/20 and 2 × set screw M 1435/7

0.23 kg



Attention:
maximum load
300 kg

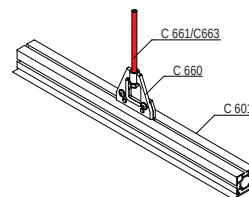
Thread rod M8, 1000 mm



C 661.01

Steel | for mounting of fixing set to ceiling on site

0.34 kg | 1000 mm



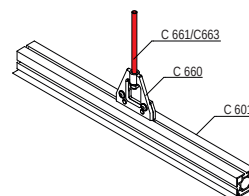
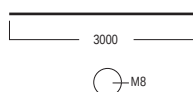
Thread rod M8, 3000 mm



C 663.01

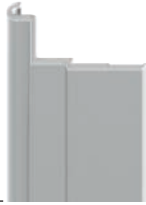
Steel | for mounting of fixing set to ceiling on site

0.92 kg | 3000 mm





Support extrusion wide

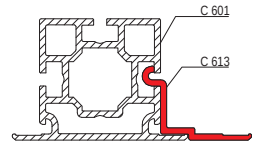
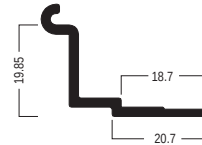


For reversible installation of FFUs and lights

C 613.01

Aluminium | for enlargement of supporting area of ceiling extrusions 19 mm

1.82 kg | 6000 mm



Ceiling bracket for fixation to wall

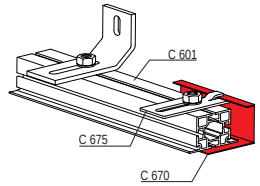
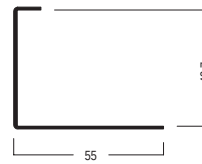


Attention: Secure the ceiling extrusion with ceiling clip C 675

C 670.01

Aluminium | for mounting of cleanroom ceiling to wall on site in combination with ceiling clip C 675

0.56 kg | 2400 mm



Ceiling clip as safety device

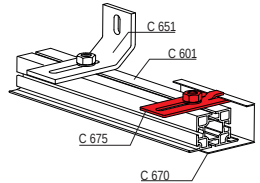
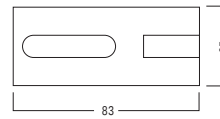


1 piece per running meter

C 675.01

Stahl | to secure ceiling extrusion to ceiling bracket C 670, incl. hammerhead screw set M 1472

0.56 kg | 2400 mm



Fixing bracket as safety device

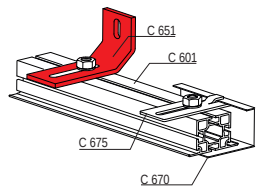
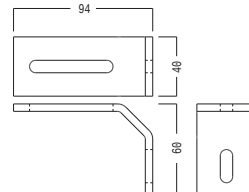


1 piece per running meter

C 651.01

Stahl | to secure ceiling bracket C 670 to wall on site

0.18 kg



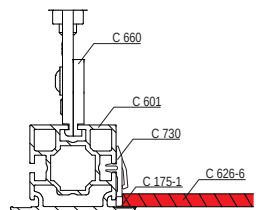
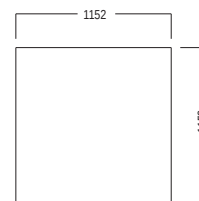
Panel 6 mm Aluminium composite 1152 × 1152 mm



C 826-6

Aluminium | panel to use in ceiling construction with a grid of 1200 × 1200 mm

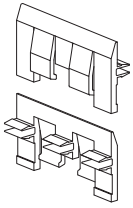
6.25 kg



Components

Ceiling system

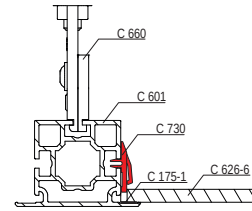
Clip for ceiling panel C 826



C 730

Plastic | for fixation of ceiling panels with a thickness of 6 mm

0.01 kg



**4 pieces
per panel**

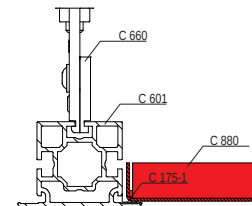
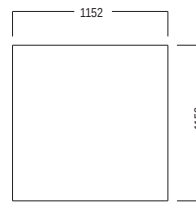
Panel 1 mm Steel sheet 1152 × 1152 mm



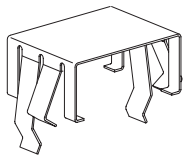
C 880

Steel sheet | panel to use in ceiling construction with a grid of 1200 × 1200 mm

10.40 kg



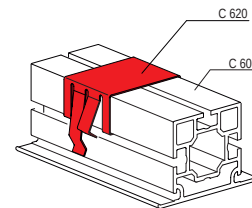
Spring for ceiling panel C 880



C 620

Spring steel | for fixation of ceiling panel C 880 and C 881 with a thickness of 1 mm

0.01 kg



**4 pieces
per panel**

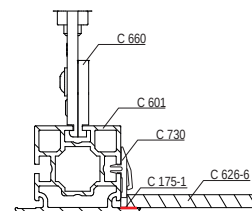
gasket for ceiling panel



C 175-1

Plastic | for sealing of gap between ceiling extrusion and ceiling panel, 1 mm PE-foam, self-adhesive

0.05 kg | 60 m × 8 mm



**installation
afloat of panel**

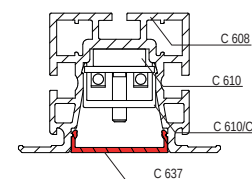
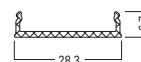
LED cover extrusion yellow, 2000 mm



C 637/2000-G

Polycarbonate | to cover the opening of LED ceiling extrusion C 608

0.18 kg | 2000 mm





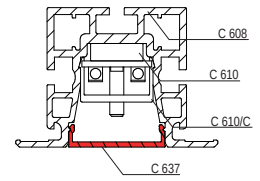
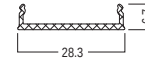
LED cover extrusion translucent, 2000 mm



C 637/2000

Polycarbonate | to cover the opening of LED ceiling extrusion C 608

0.18 kg | 2000 mm



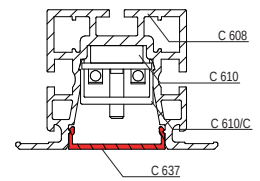
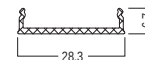
LED cover extrusion translucent, 1500 mm



C 637/1500

Polycarbonate | to cover the opening of LED ceiling extrusion C 608

0.14 kg | 1500 mm



LED strip for C 608, 900 mm

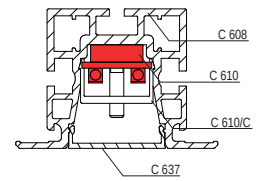


Attention: fixation with LED fixing clip C 610/C

C 610/900

Aluminium | for mounting to LED ceiling extrusion C 608, incl. 3 LED boards, can be used in connection with cover extrusion C 637, 20 W, 2100 lm, 24V, DC, 4000 K

0.27 kg | 900 mm



LED strip for C 608, 1500 mm

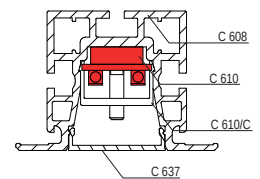


Attention: fixation with LED fixing clip C 610/C

C 610/1500

Aluminium | for mounting to LED ceiling extrusion C 608, incl. 5 LED boards, can be used in connection with cover extrusion C 637, 33 W, 3500 lm, 24V, DC, 4000 K

0.45 kg | 1500 mm



LED fixing clip for LED strip C 610

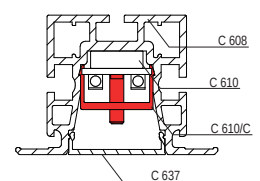
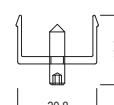


3 pieces per LED strip

C 610/C.90

Aluminium | for fixation of LED elements, incl. 1 x clamping screw M4, is clipped into ceiling extrusion C 608

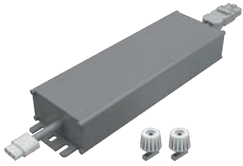
0.01 kg



Components

Ceiling system

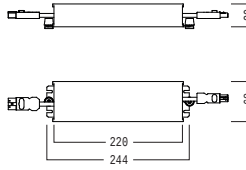
LED power supply for LED strip C 610



OL 98/2

Aluminium/plastic | input:
100-240 V AC, 50/60Hz, output:
24 V DV, 10 A, 240 W incl. plug
OL 146, fixing set OL 252 and OL
144 (included)

1.22 kg



! Attention: max.
5 x C 610/1500
or
8 x C 610/900

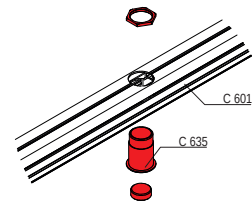
Sprinkler sleeve with cover screw



C 635

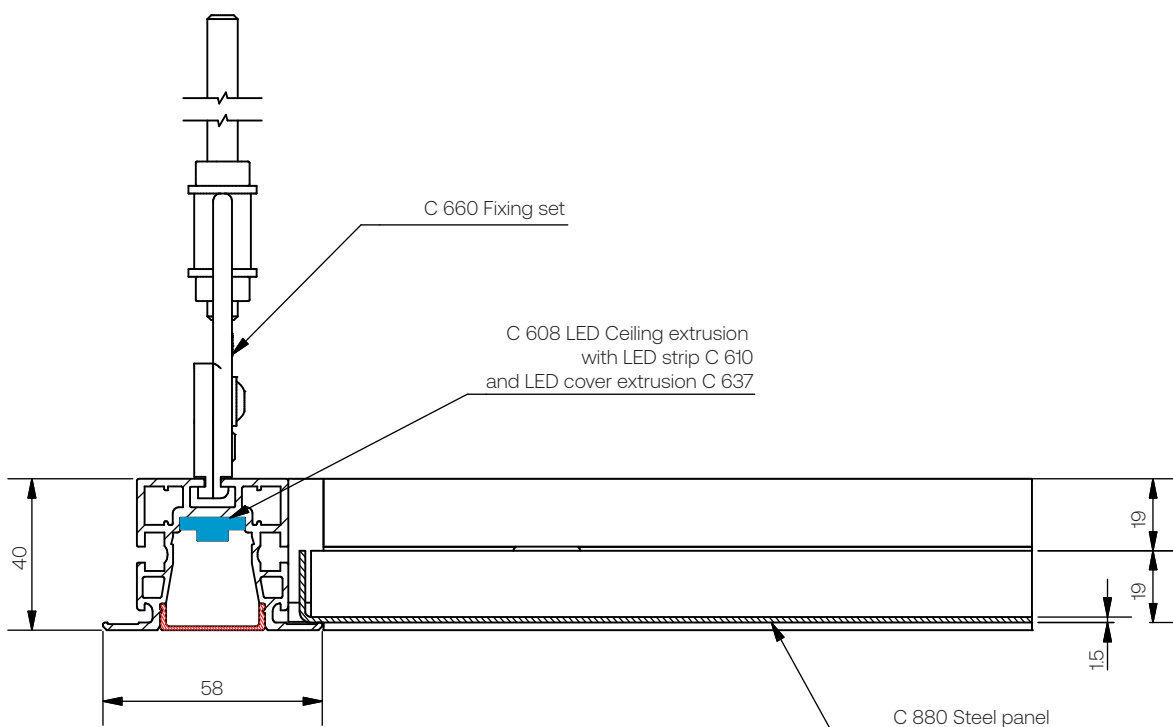
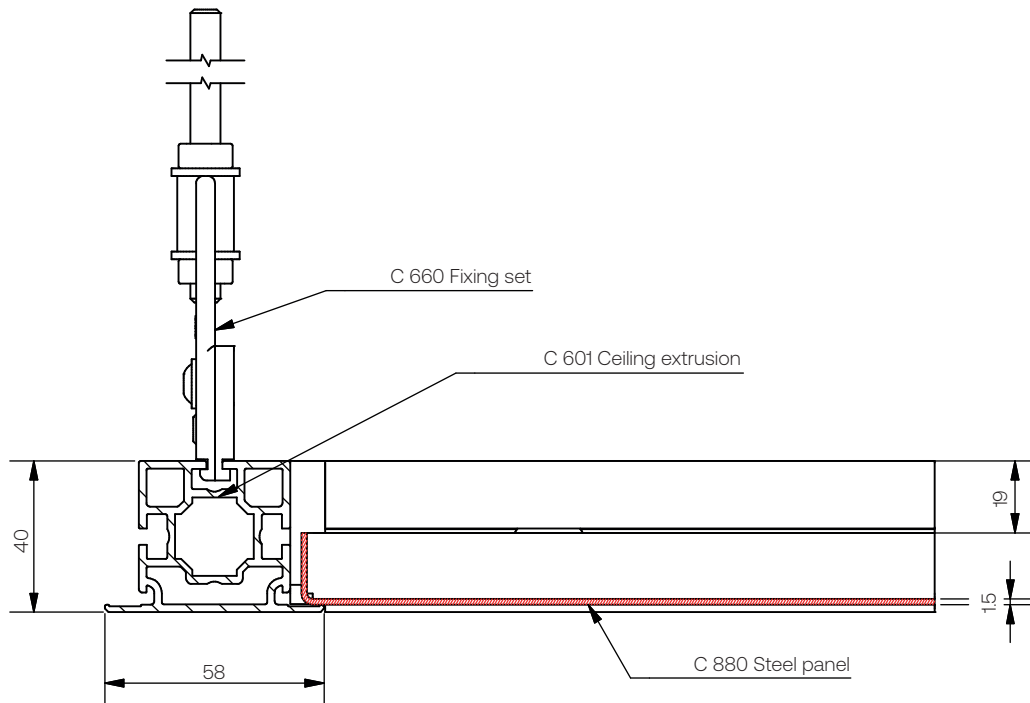
Aluminium | sprinkler duct for
installation in ceiling extrusions,
for sprinkler pipes up to 1" or 25.4
mm, outside diameter 33.5 mm,
aluminum pass-through sleeve
with flange for flush mounting
on ceiling extrusion

0.06 kg



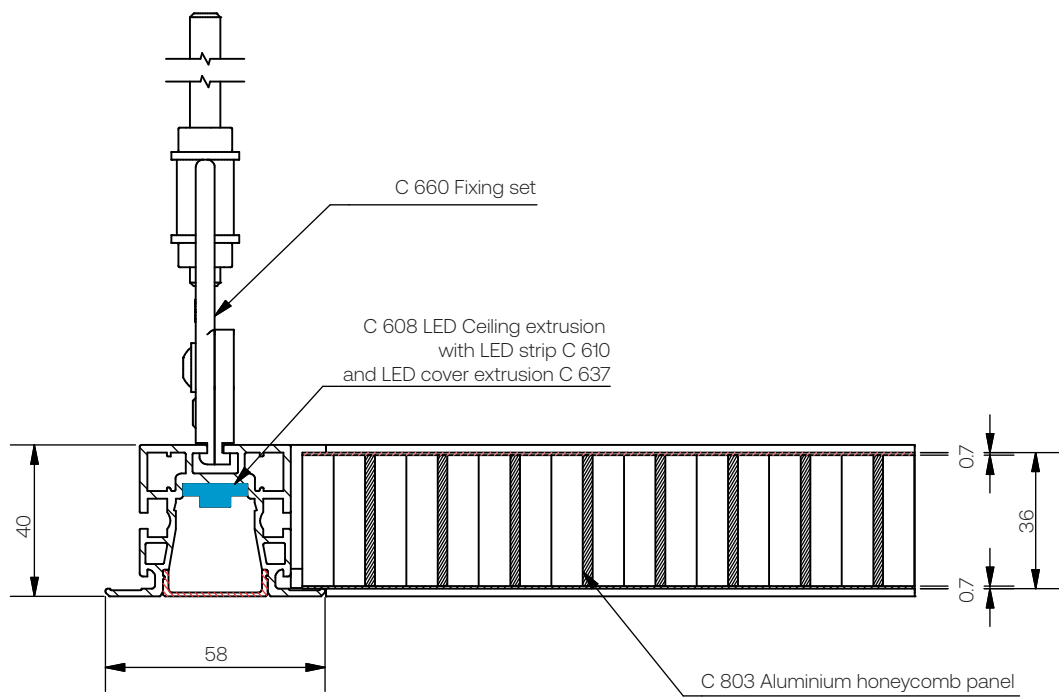
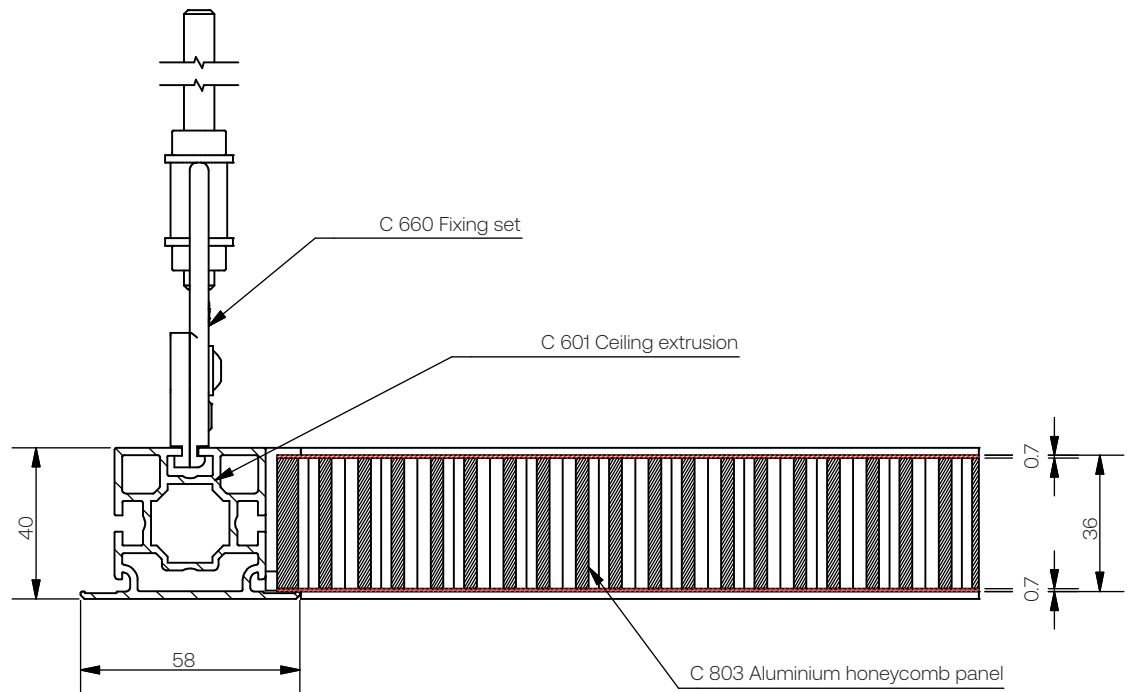


Mounting steel panel C 880 with fixing set C 660

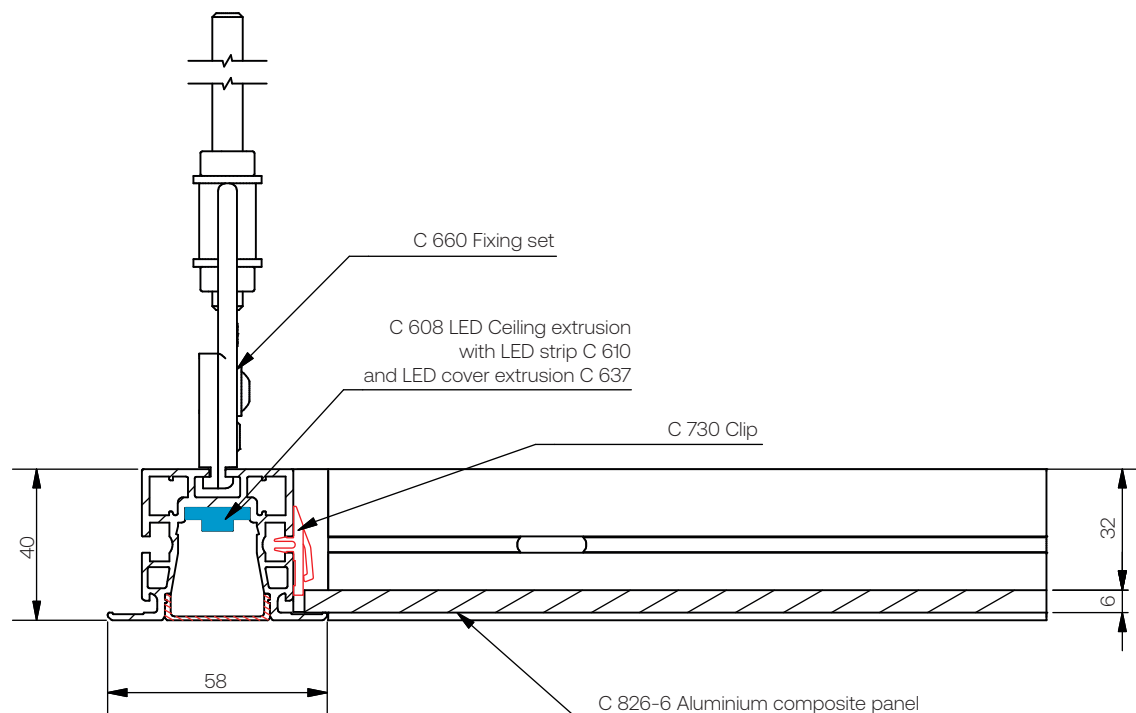
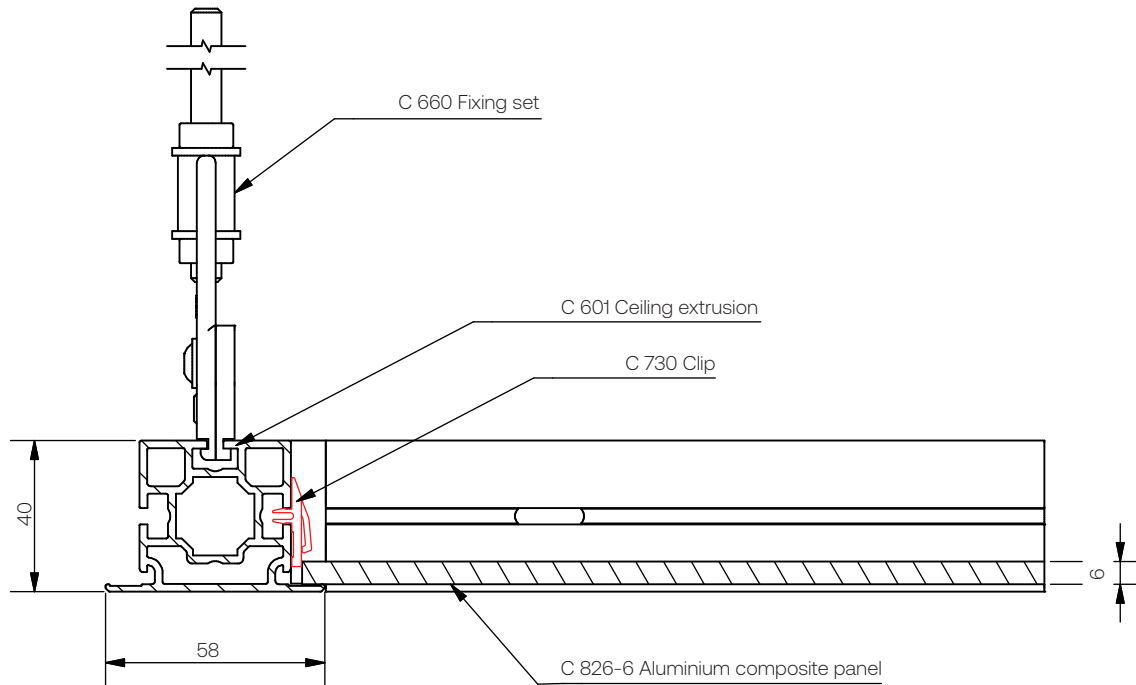




Mounting honeycomb panel C 803 with fixing set C 660

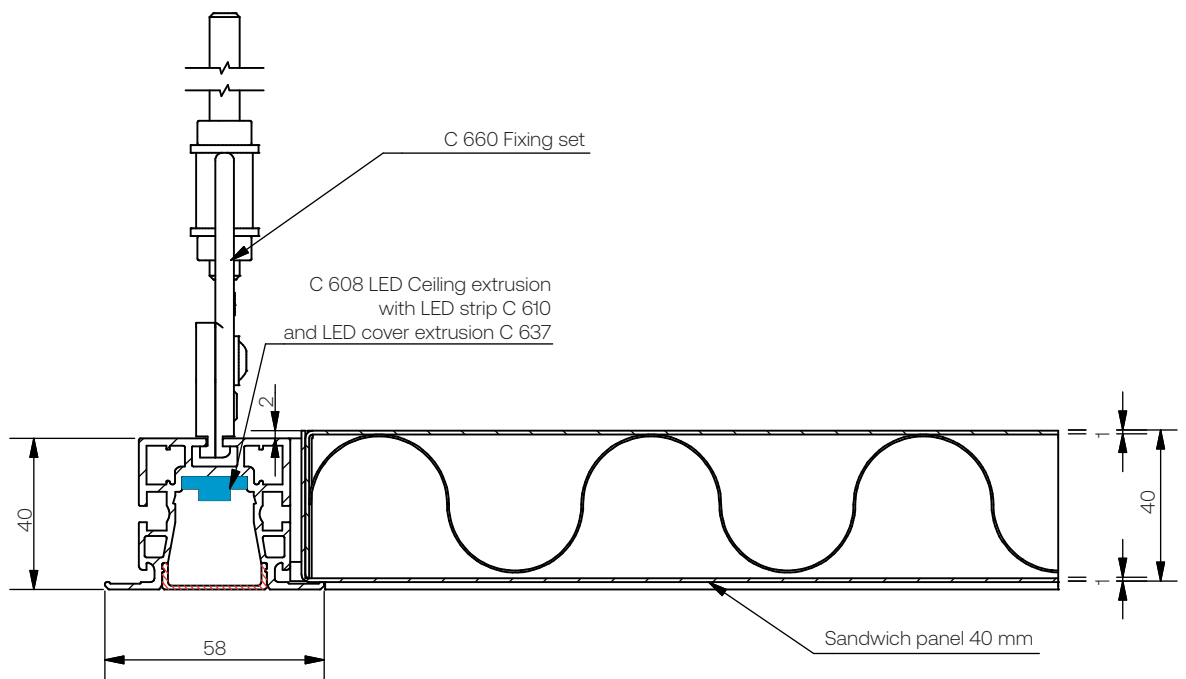
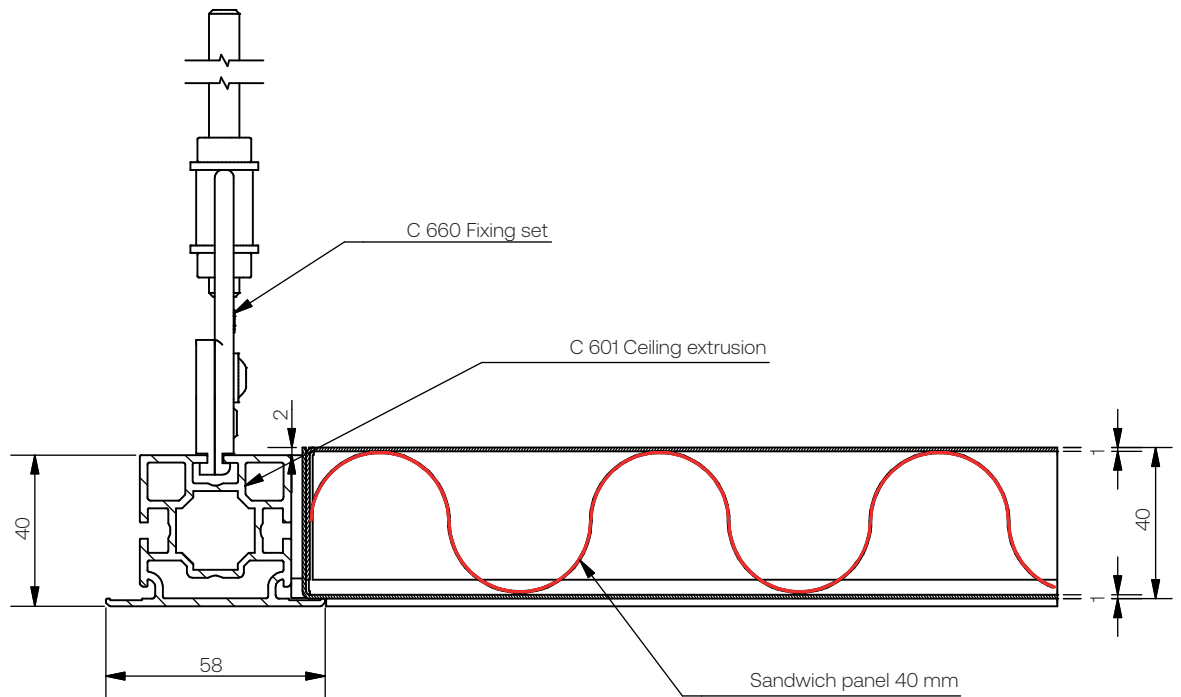


Mounting aluminium composite panel C 826-6 with fixing set C 660

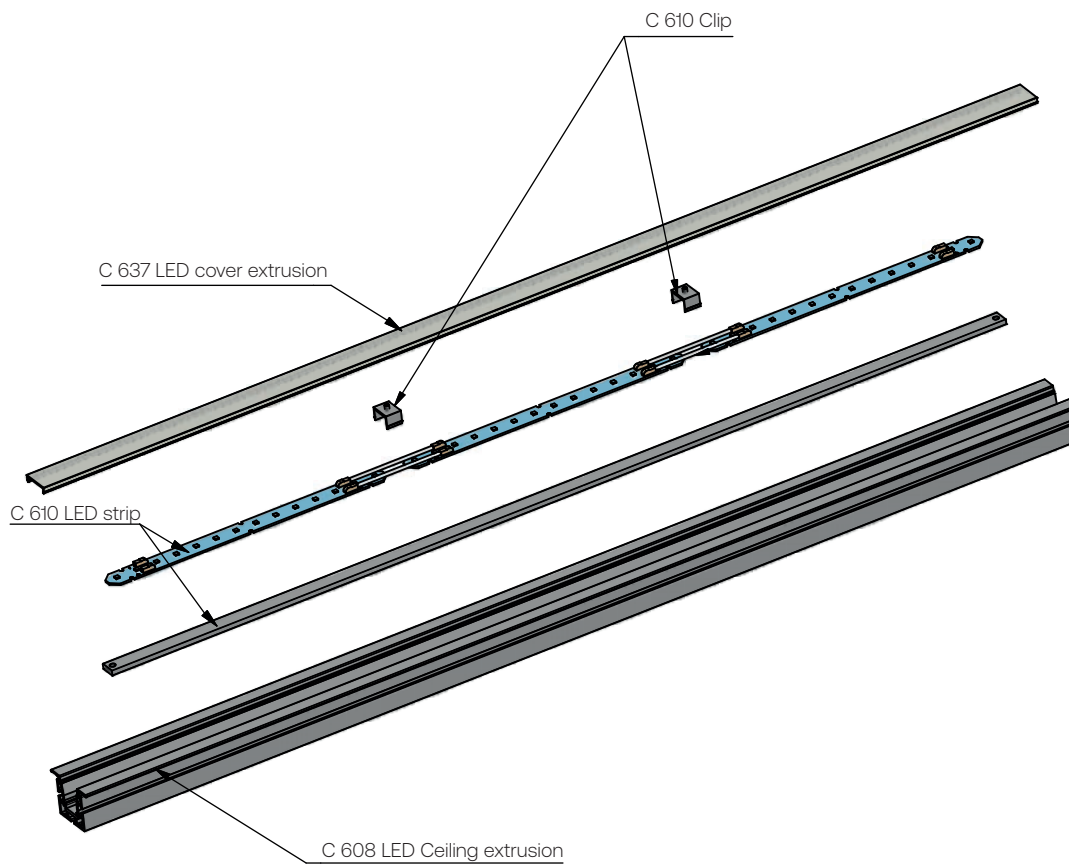
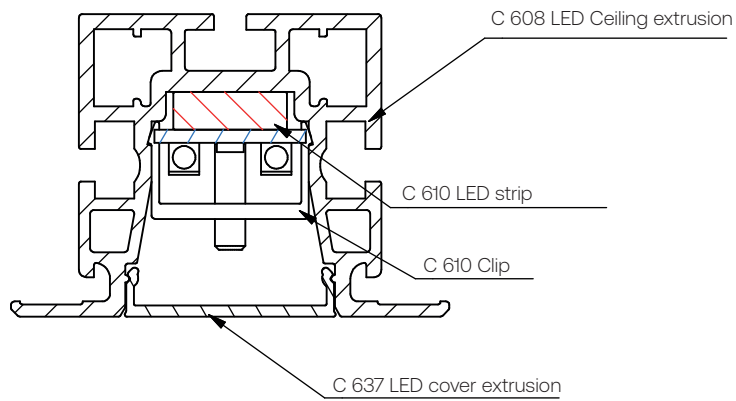




Mounting sandwich panel 40 mm with fixing set C 660

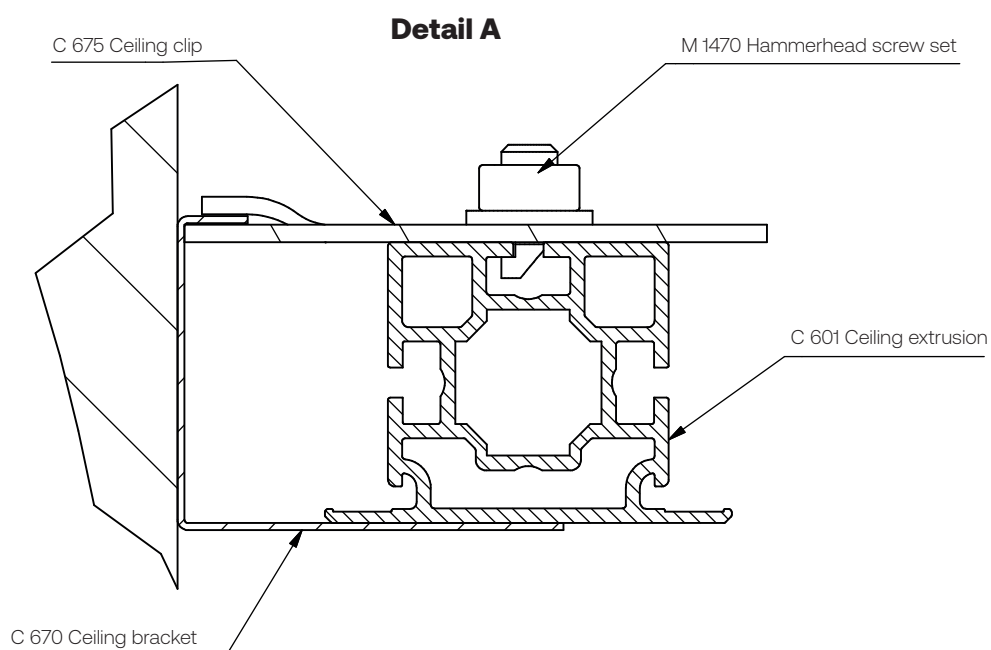
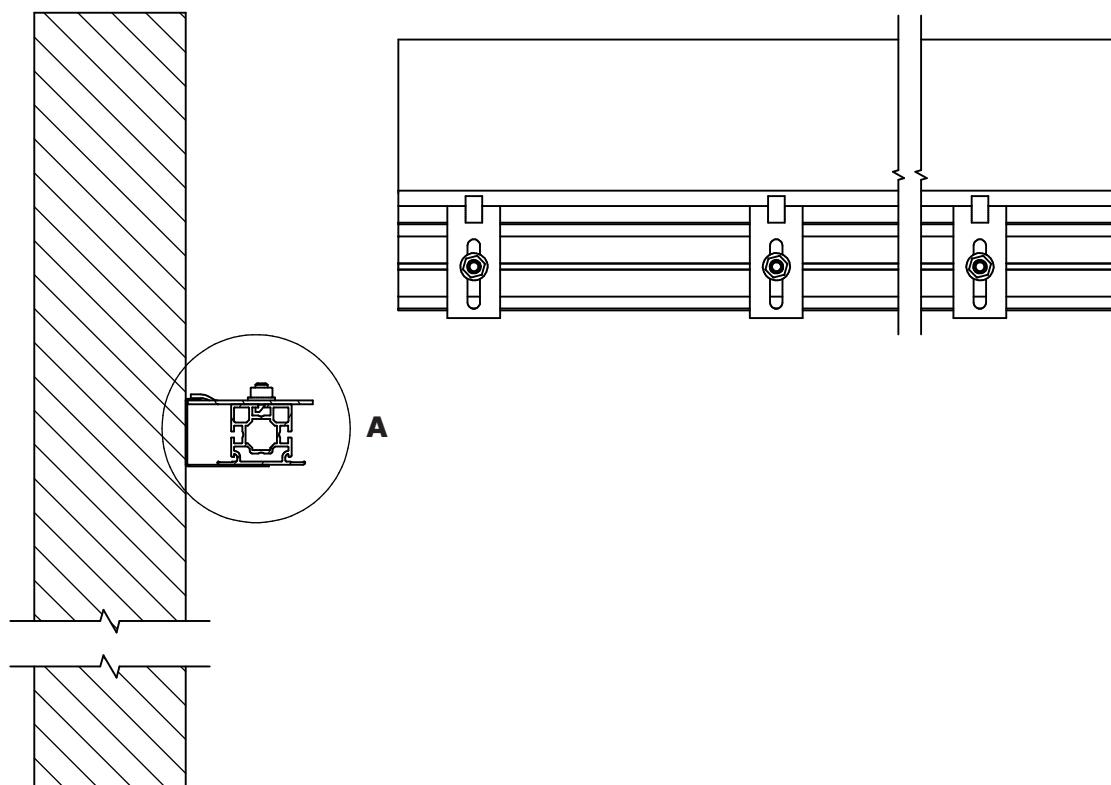


Set up LED ceiling extrusions C 608

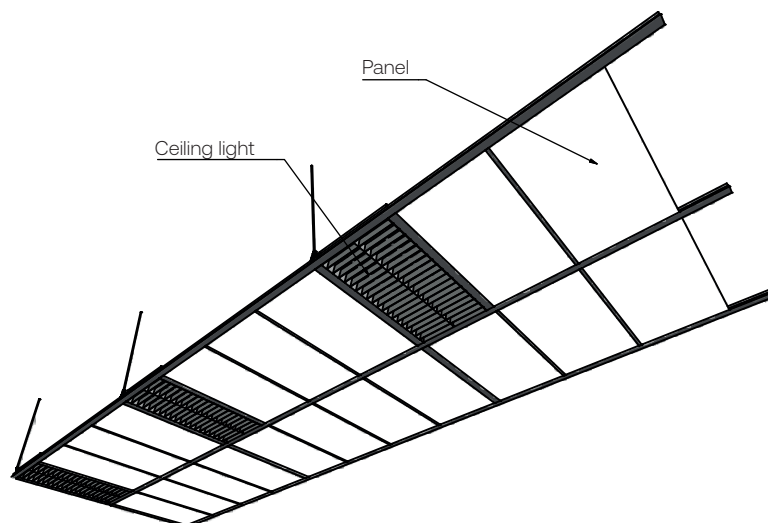
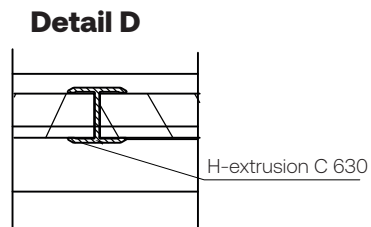
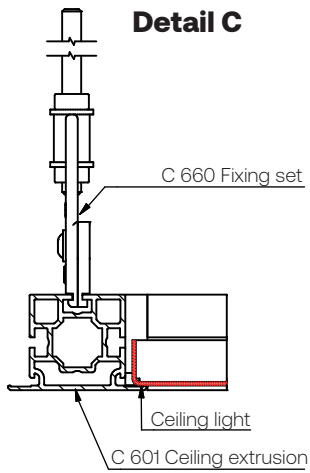
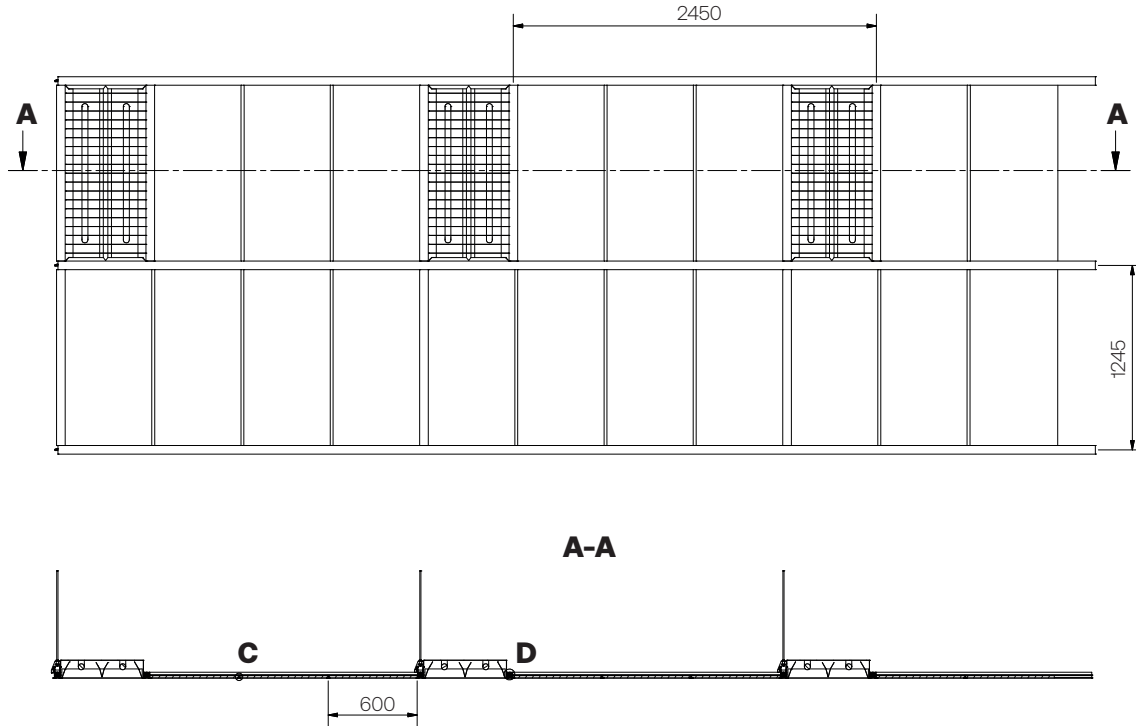




Fixation to wall on site with ceiling bracket C 670

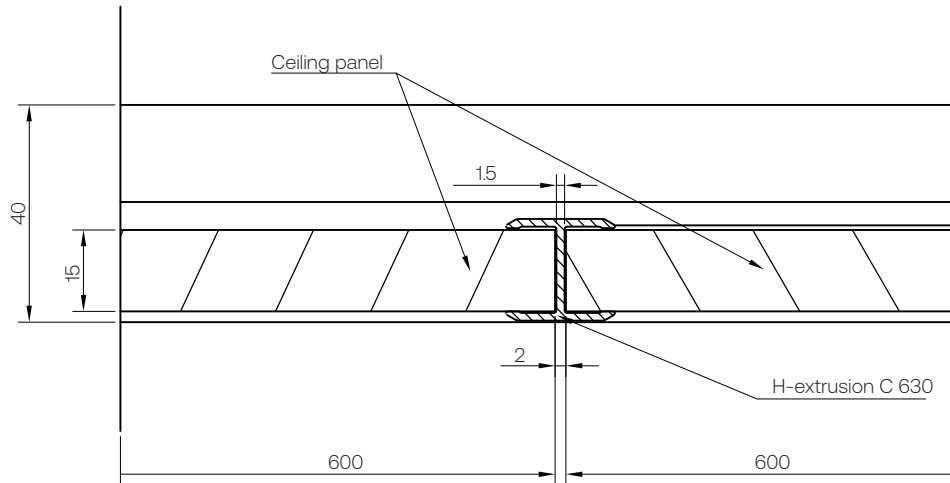


Installation of ceiling light

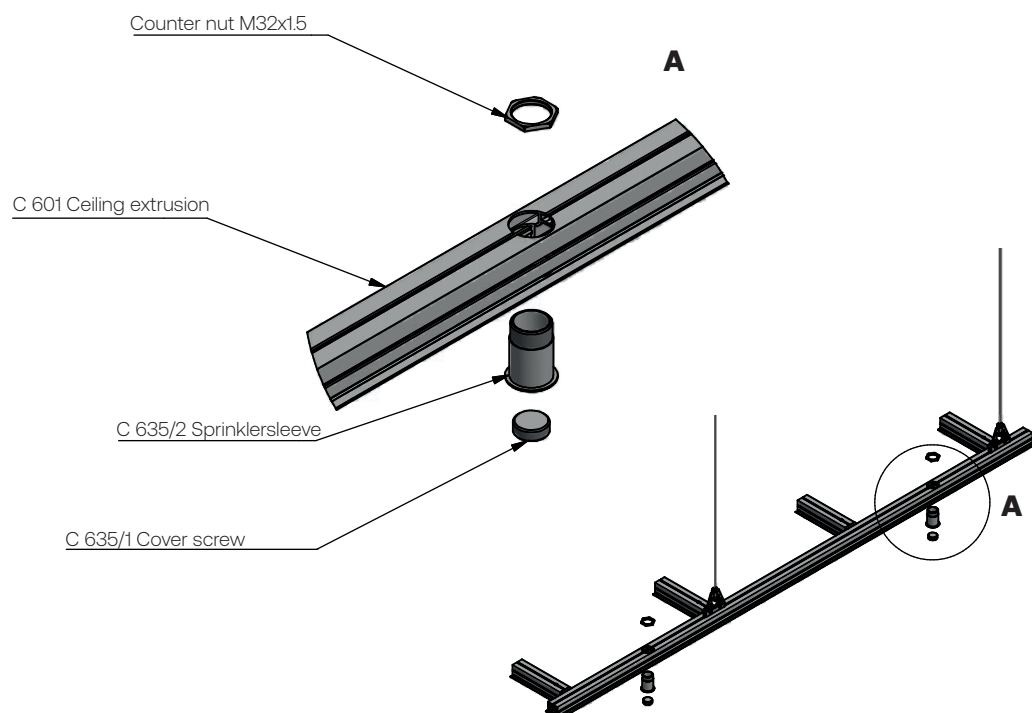




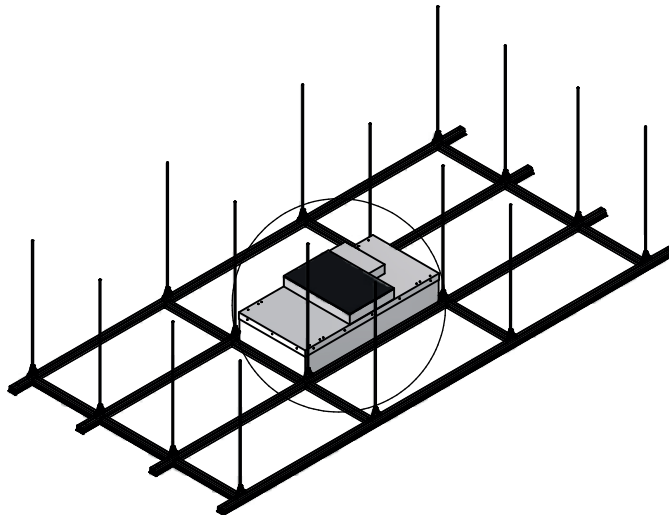
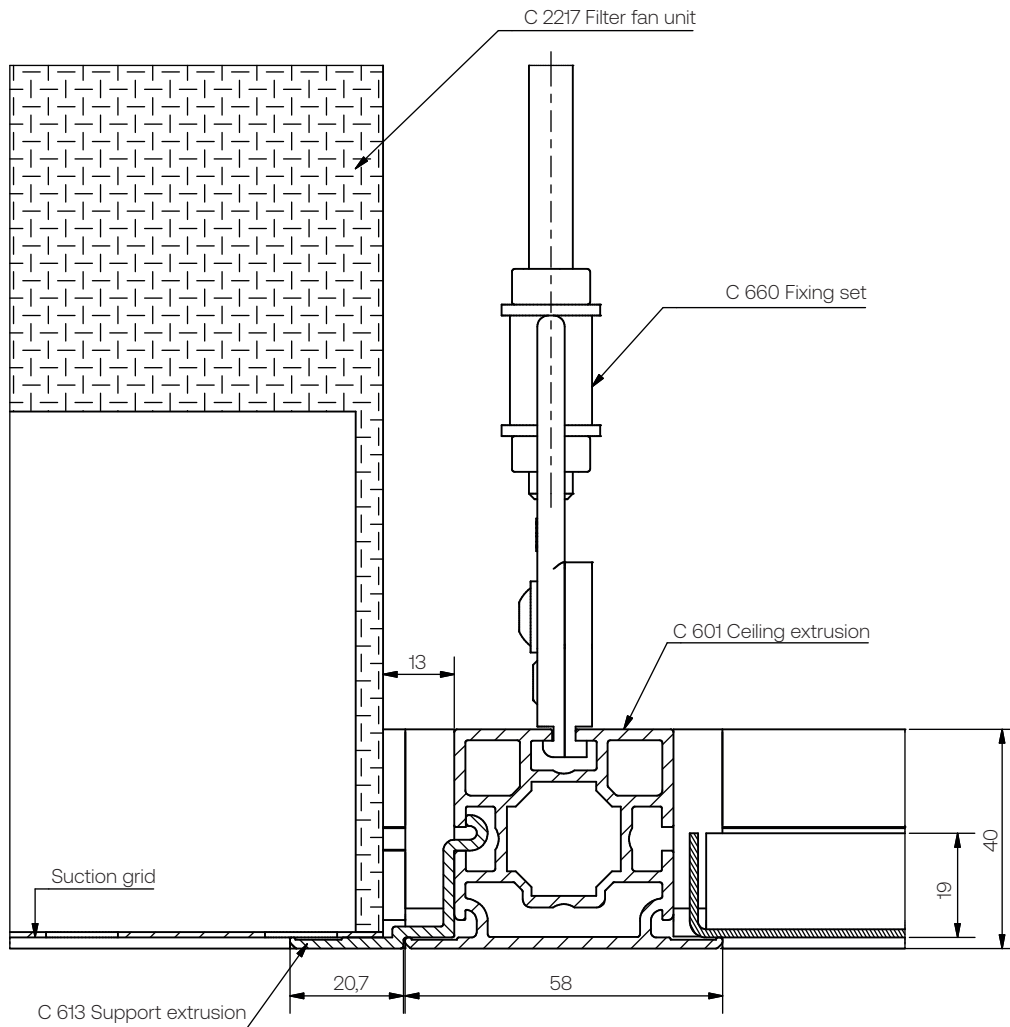
Mounting connector h-extrusion C 630



Mounting sprinklersleeve C 635



Installation of filter fan unit with support extrusion C 613





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