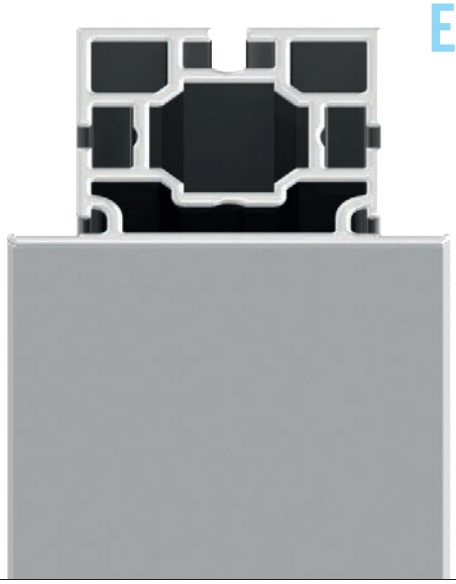
CLEAN ROOM

CEILING SYSTEM

OCTANORM®

CEILING SYSTEM

ELECTRONICS AND SEMICONDUCTORS



FEW COMPONENTS.
EASY ASSEMBLY.
NO COMPROMISES.

Application areas

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

Our ceiling systems offer individually adjusted contamination control for all cleanroom classes. They are modularly expandable and can easily be fitted with lights and filters. Ceiling panels are available in single or double shell design, in standard grids of 600 × 1200 mm and 1200 × 1200 mm – on request, grids starting at 150 mm × 150 mm are also possible. All ceiling systems comply with the EN ISO 14644-4 cleanroom standard and are certified by the Fraunhofer institute.

Light ceilings:
- 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

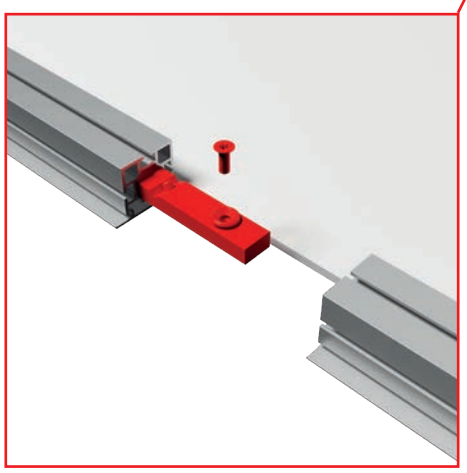
- extrusion depth 58 mm, extrusion height 40 mm
- grid sizes 600 × 1200 or 1200 × 1200 mm
- other grid sizes from 150 × 150 mm possible
- anodized aluminium ceiling extrusions
- different ceiling panels, single or double

TECHNICAL FEATURES

Ceiling system electronics and semiconductors

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

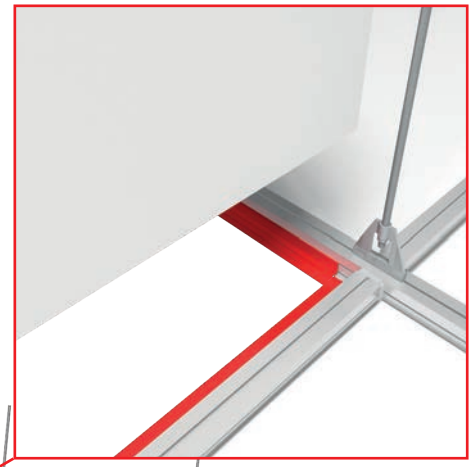
Ceiling clamp **C 675**
(to secure ceiling extrusion
to ceiling bracket)



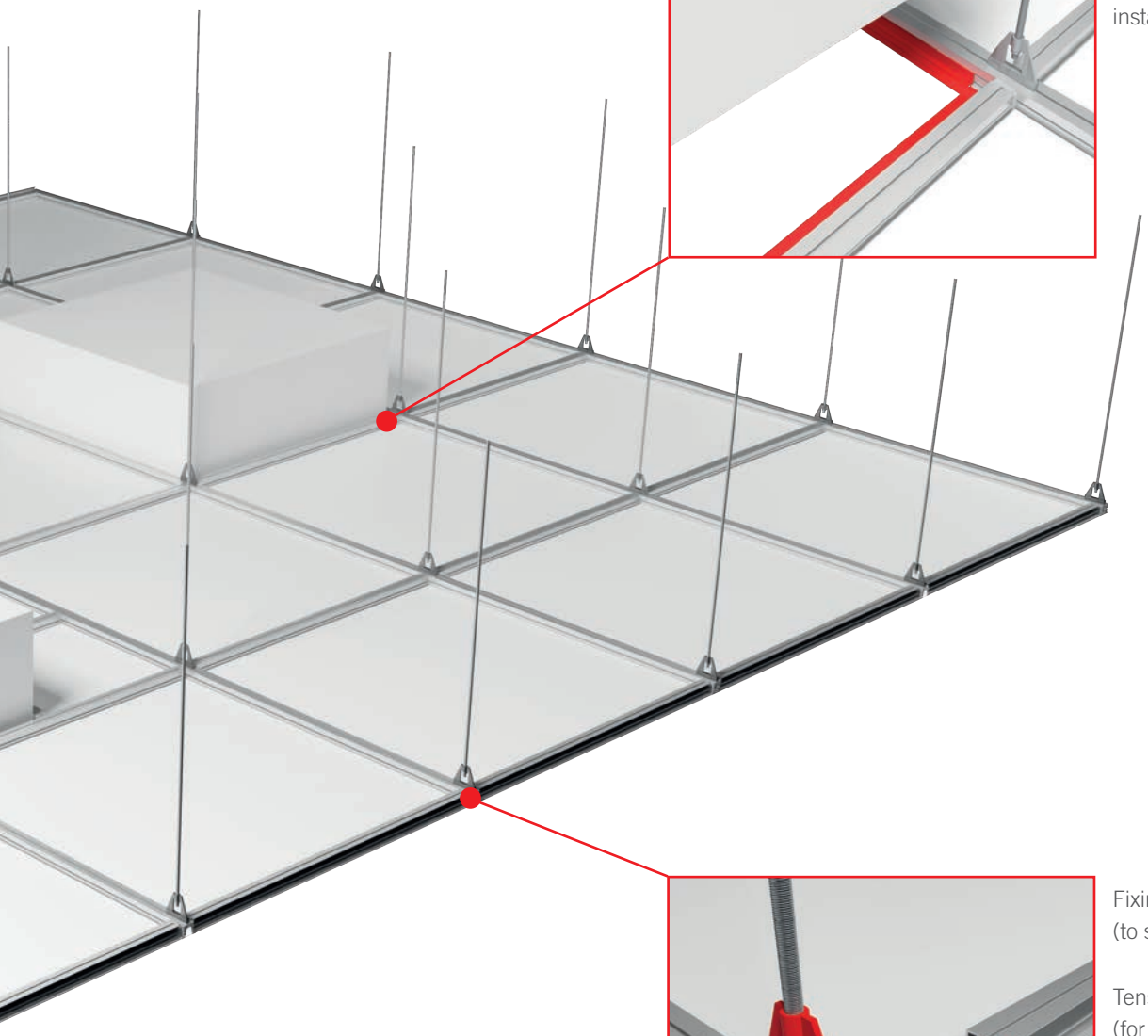
Connector **Z 967**
(for extension of ceiling
extrusions)

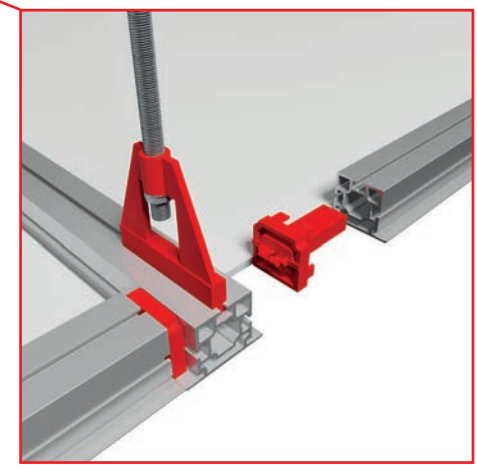
TECHNICAL FEATURES

Ceiling system electronics and semiconductors



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)

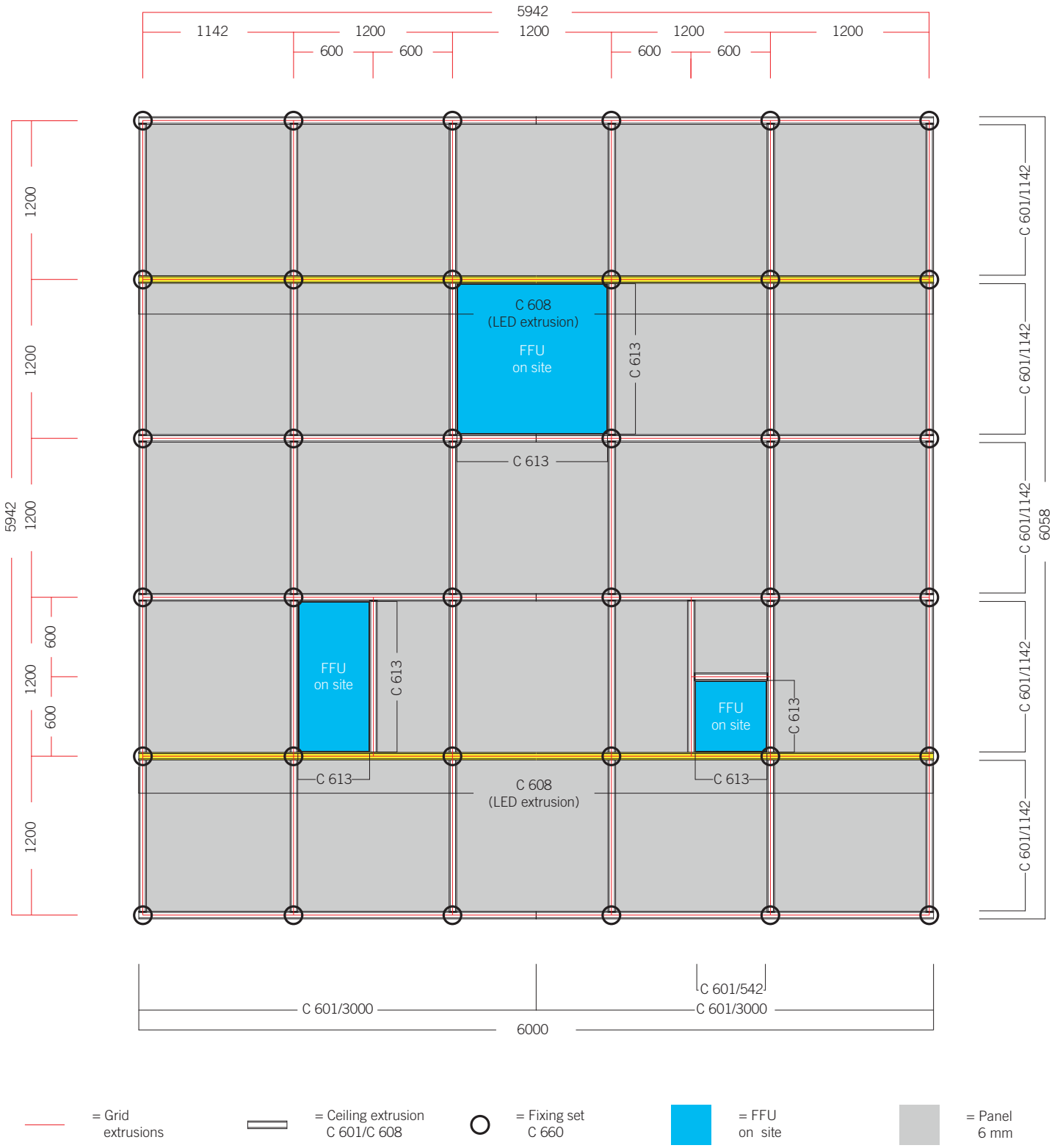
Tension lock set **C 624**
(for connections of ceiling extrusions at an angle of 90°)

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 mmm		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	crop: 1142 mm crop: 1090 mm crop: 542 mm crop: 490 mm	4 2 4 2
C 626-6	Panel 1152 × 1152 mm	 crop: 1152 × 1094 mm crop: 1152 × 552 mm crop: 552 × 552 mm	17 5 2 1
C 730	Clip for panel		100
C 175-1	Gasket 8 × 1 mm length 60 m, for ceiling panel		2

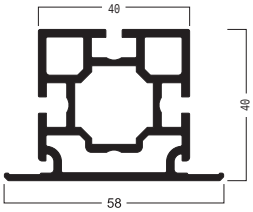
TOP VIEW (SAMPLE CEILING 6000 × 6000 MM)

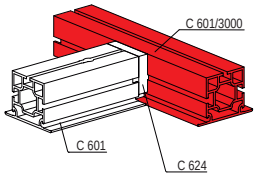


CEILING EXTRUSION
3000 MM

C 601/3000.01

Aluminium I for ceiling construction with grid of 1200 × 1200, 600 × 1200 and 600 × 600 mm, 2 × drillings of connector Z 967
4.35 kg I 3000 mm

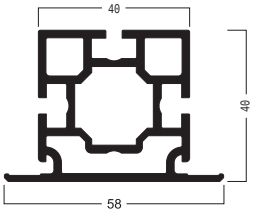


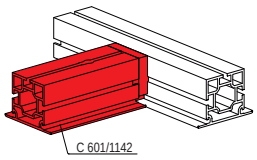


CEILING EXTRUSION
1142 MM

C 601/1142.01

Aluminium I for ceiling construction with grid of 1200 × 1200 and 600 × 1200 mm, 2 × tension lock set C 624
1.78 kg I 1142 mm

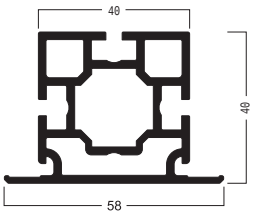


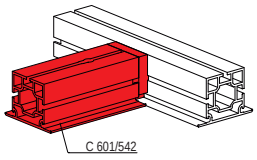


CEILING EXTRUSION
542 MM

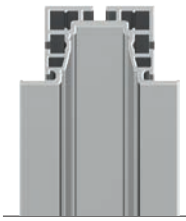
C 601/542.01

Aluminium I for ceiling construction with grid of 600 × 1200 and 600 × 600 mm, 2 × tension lock set C 624
0.21 kg I 542 mm



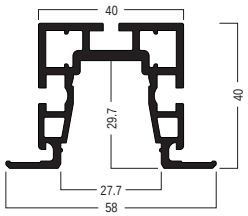


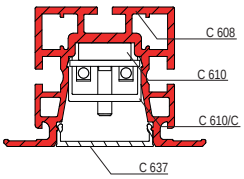
LED CEILING EXTRUSION
6000 MM



C 608.01

Aluminium I for ceiling construction, with opening for LED strip C 610, in combination with LED cover extrusion C 637
7.32 kg I 6000 mm

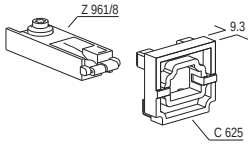


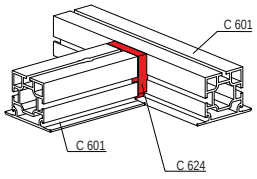


TENSION LOCK SET
FOR CEILING EXTRUSION

C 624

Aluminium I 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

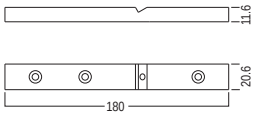


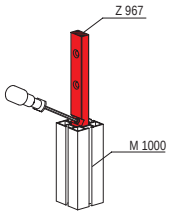


CONNECTOR
STRAIGHT

Z 967.90

Aluminium I 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

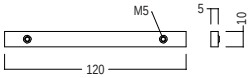




CONNECTOR LED
STRAIGHT FOR C 608

C 638.90

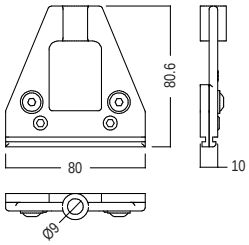
Aluminium I for connection of two LED ceiling extrusions C 608, incl. 2 × clamping screw M5
0.05 kg

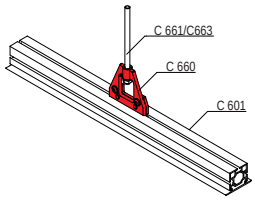


FIXING SET
FOR SYSTEM GROOVE

C 660.90

Zinc diecasting/steel I 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



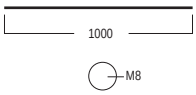


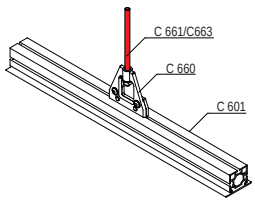
! Attention:
maximum load
300 kg

THREAD ROD
M8

C 661.01

Steel I for mounting of fixing set to ceiling on site
0.34 kg I 1000 mm

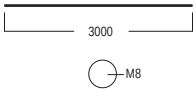


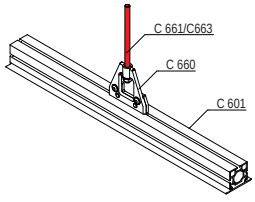


THREAD ROD
M8

C 663.01

Steel I for mounting of fixing set to ceiling on site
0.92 kg I 3000 mm



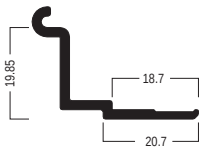


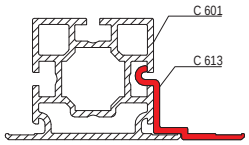
SUPPORT EXTRUSION
WIDE

For reversible installation of FFUs and lights

C 613.01

Aluminium I for enlargement of supporting area of ceiling extrusions 19 mm
1.82 kg I 6000 mm



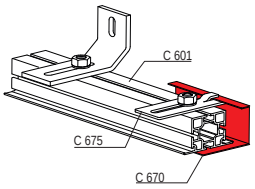


CEILING BRACKET
FOR FIXATION TO WALL

Attention: Secure the ceiling extrusion with ceiling clip C 675

C 670.01

Aluminium I for mounting of cleanroom ceiling to ceiling on site in combination with ceiling clip C 675
0.56 kg I 2400 mm

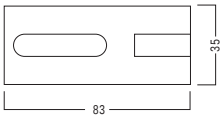


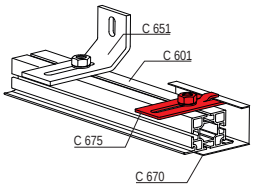
CEILING CLIP
AS SAFETY DEVICE

1 piece per running meter

C 675.01

Steel I to secure ceiling extrusion to ceiling bracket C 670, incl. hammerhead screw set M 1472
0.56 kg I 2400 mm



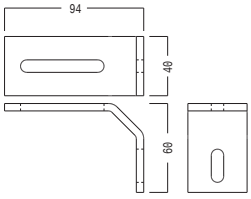


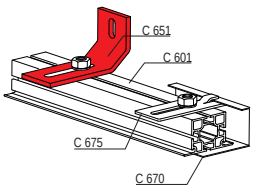
FIXING BRACKET
AS SAFETY DEVICE

1 piece per running meter

C 651.01

Steel I to secure ceiling bracket C 670 to wall on site
0.18 kg

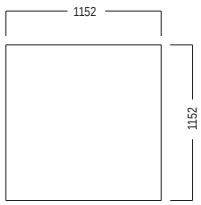


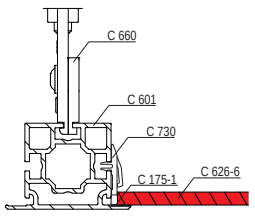


PANEL 6 MM
ALUMINIUM COMPOSITE
1152 MM × 1152 MM

C 826-6

Aluminium I Panel to use in ceiling construction with a grid of 1200 × 1200 mm
6.25 kg

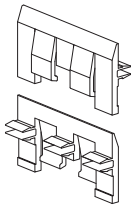




COMPONENTS

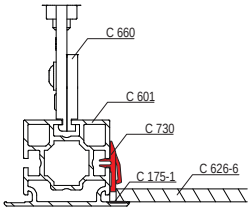
Ceiling system electronics and semiconductors

CLIP
FOR CEILING PANEL C 826



C 730

Plastic I for fixation of ceiling panels with a thickness of 6 mm
0.01 kg

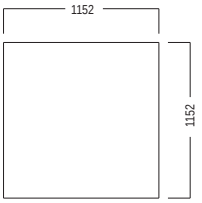


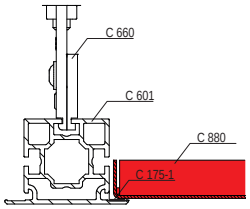
i 4 pieces per panel

PANEL 1 MM
STEEL SHEET
1152 MM × 1152 MM

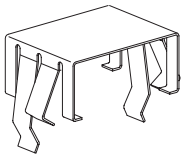
C 880

Steel sheet I Panel to use in ceiling construction with a grid of 1200 × 1200 mm
10.40 kg





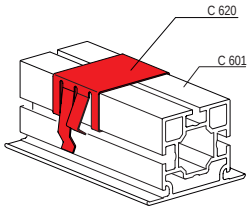
SPRING
FOR CEILING PANEL C 880



C 620

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

0.01 kg

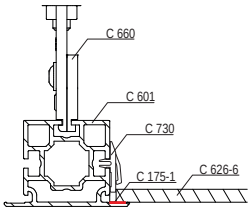


i 4 pieces per panel

GASKET
FOR CEILING PANEL 6 MM

C 175-1

Plastic I for sealing of gap between ceiling extrusion and ceiling panel, 1 mm PE-foam, self-adhesive
0.05 kg I 60 m × 8 mm

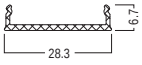


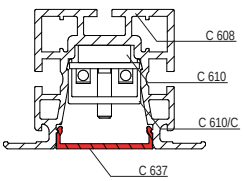
i installation afloat of panel

LED COVER EXTRUSION
YELLOW

C 637/2000-G

Polycarbonate I to cover the opening of LED ceiling extrusion C 608
0.18 kg I 2000 mm

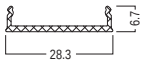


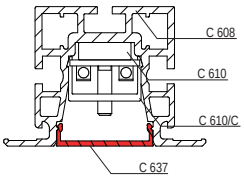


LED COVER EXTRUSION
TRANSLUCENT

C 637/2000

Polycarbonate I to cover the opening of LED ceiling extrusion C 608
0.18 kg I 2000 mm

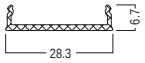


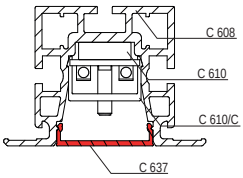


LED COVER EXTRUSION
TRANSLUCENT

C 637/1500

Polycarbonate I to cover the opening of LED ceiling extrusion C 608
0.14 kg I 1500 mm



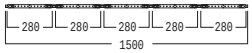


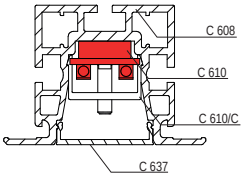
LED STRIP
FOR C 608

Attention: fixation with LED fixing clip C 610/C

C 610/900

Aluminium I 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 I 900 mm



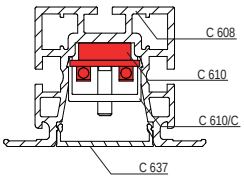


LED STRIP
FOR C 608

Attention: fixation with LED fixing clip C 610/C

C 610/1500

Aluminium I 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 I 1500 mm

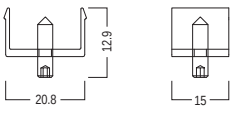


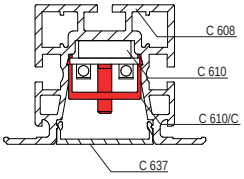
LED FIXING CLIP
FOR LED STRIP C 610

3 pieces per LED strip

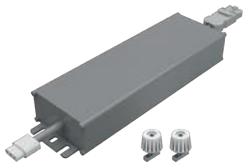
C 610/C.90

Aluminium I for fixation of LED elements, incl. 1 × clamping screw M4, is clipped into ceiling extrusion C 608
0.01 kg



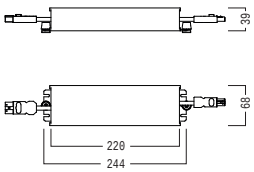


LED POWER SUPPLY
FOR LED STRIP C 610



OL 98/2

Aluminium I 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

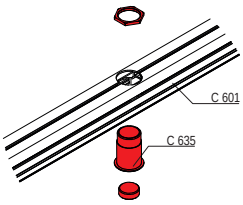


! Attention: max.
5 × C 610/1500
or
8 × C 610/900

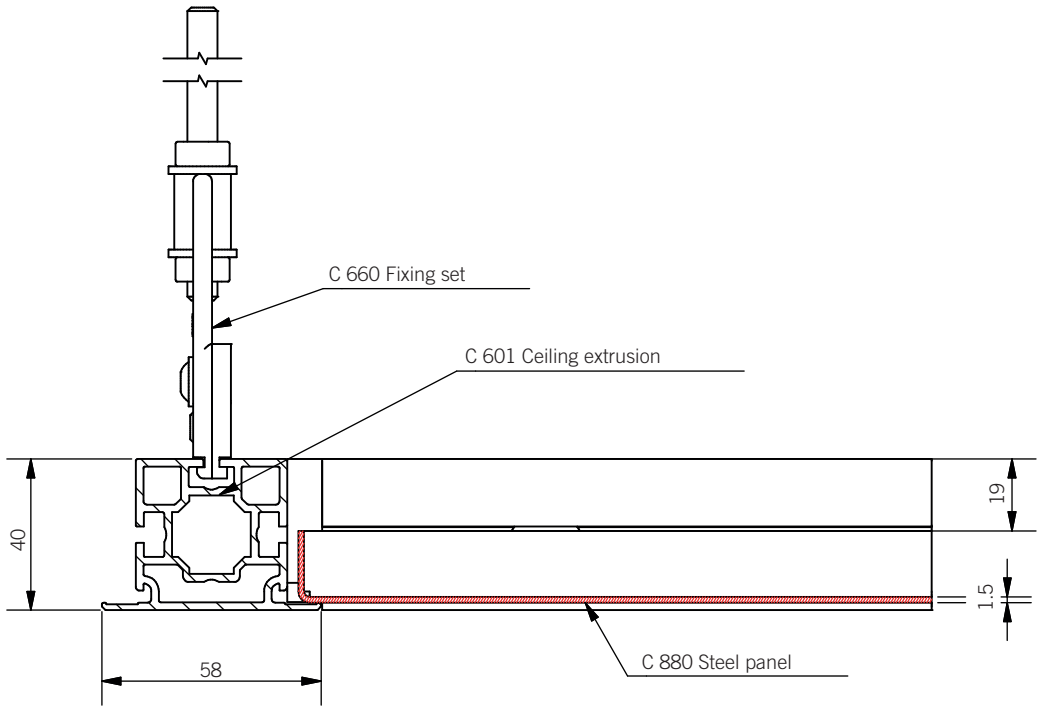
SPRINKLER SLEEVE
WITH COVER SCREW

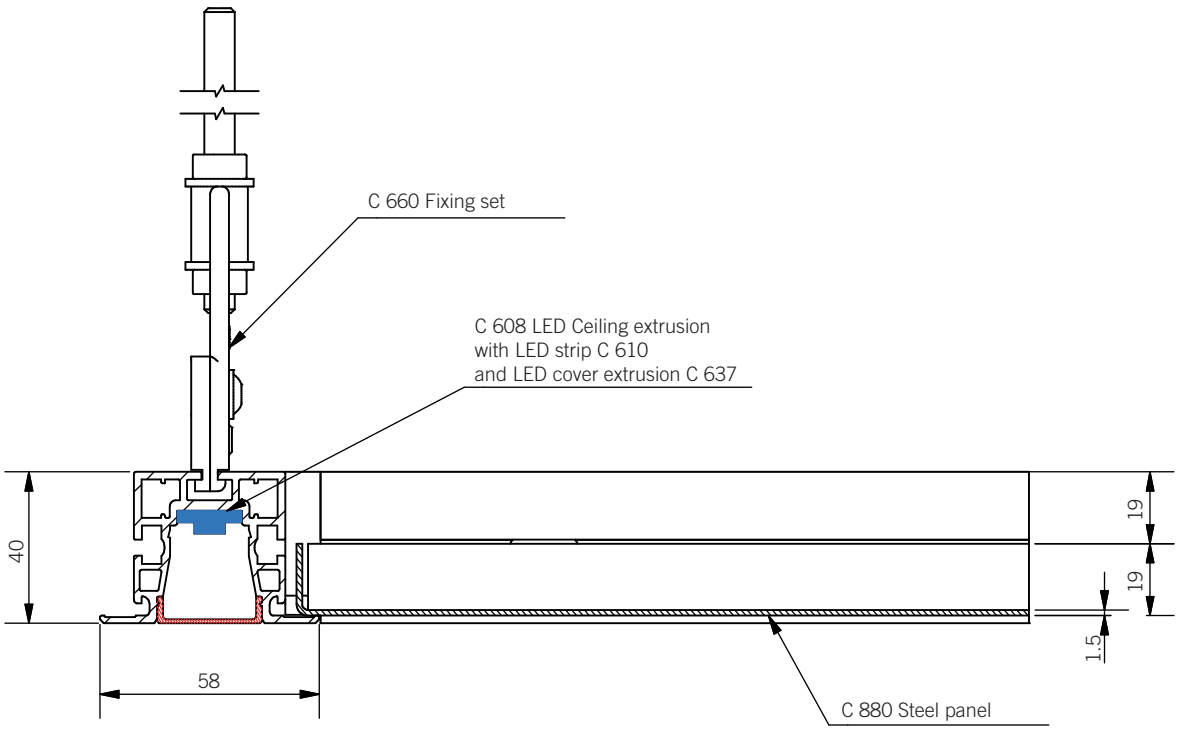
C 635

Aluminium I 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

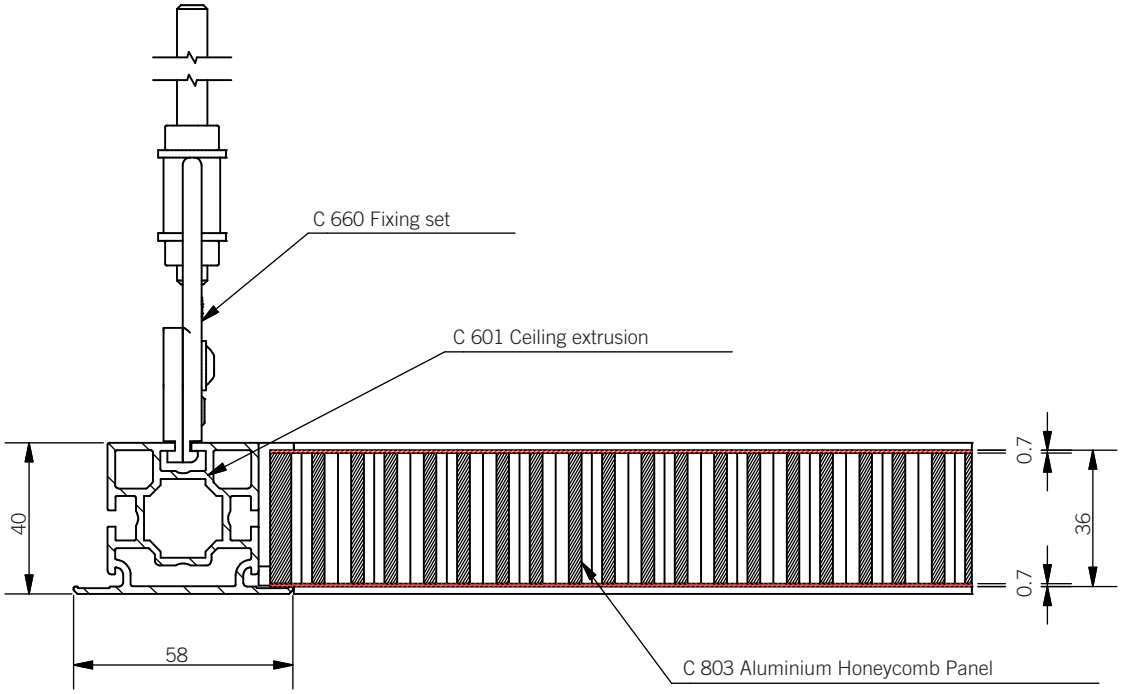


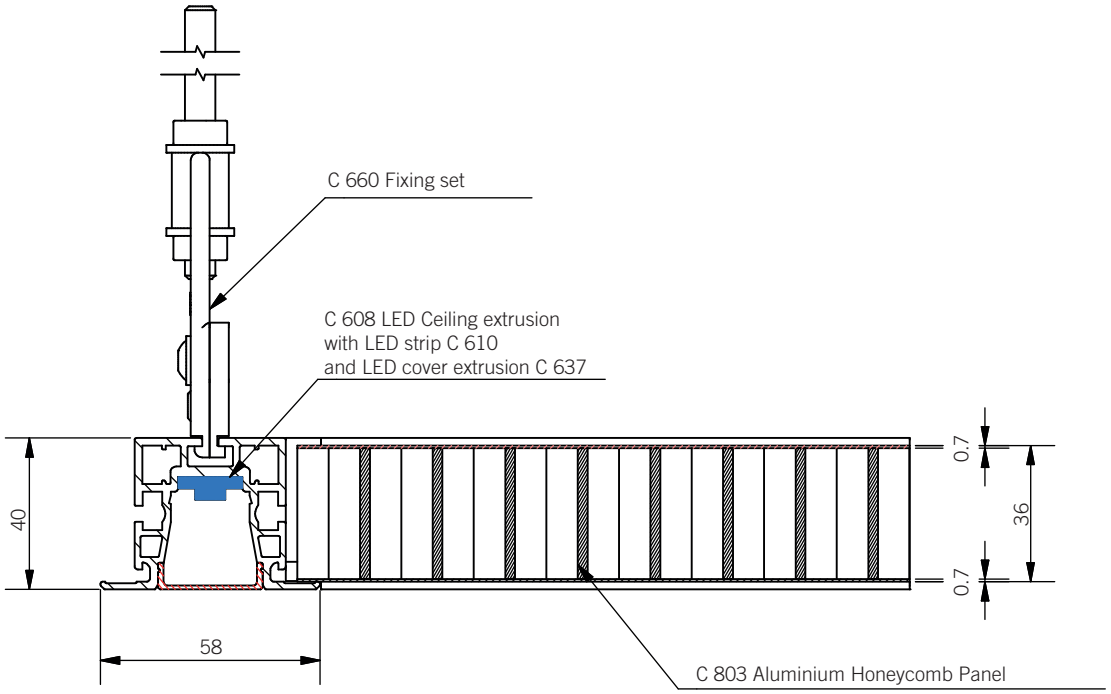
MOUNTING STEEL PANEL C 880 WITH FIXING SET C 660



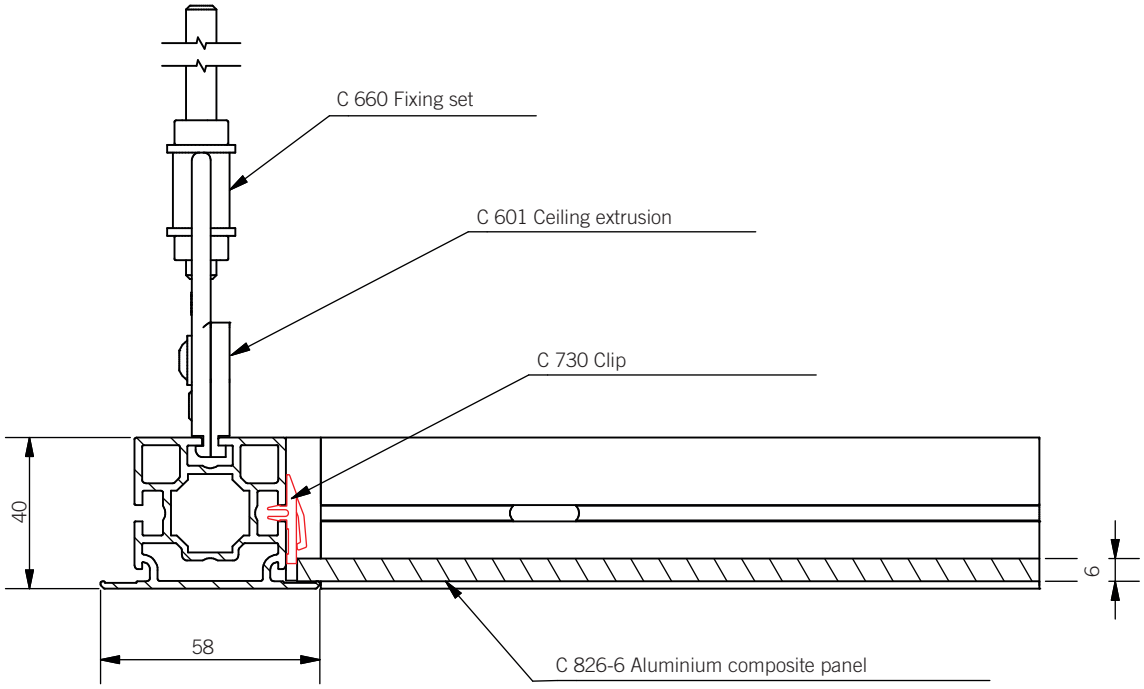


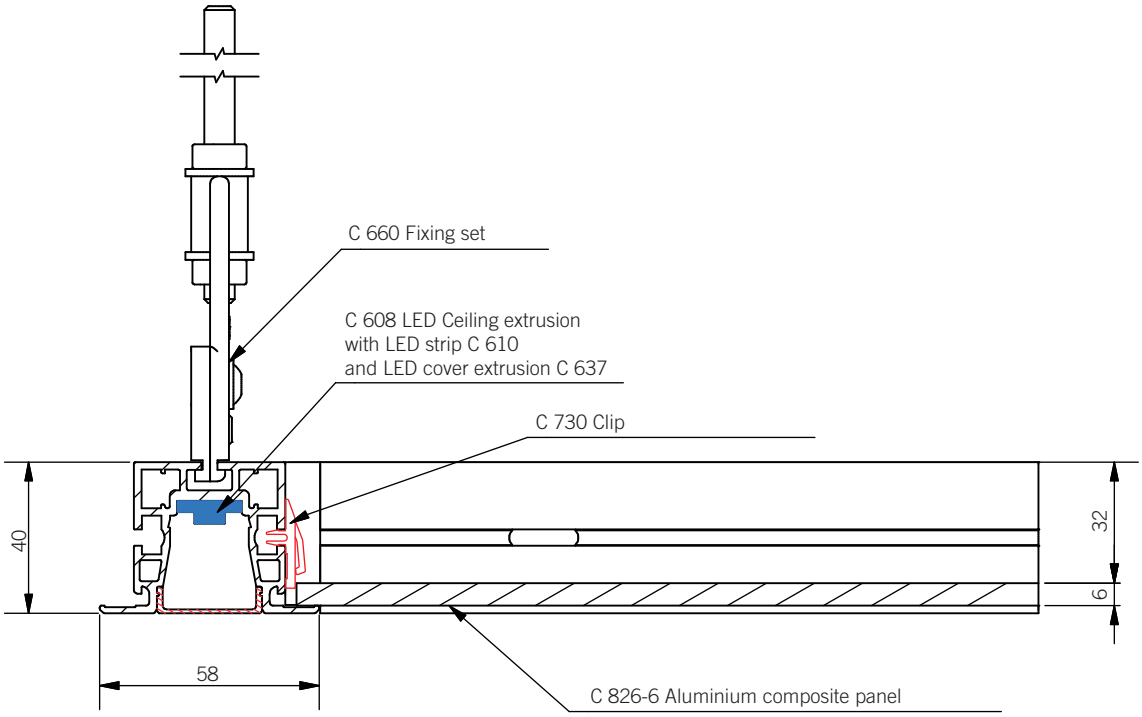
MOUNTING HONEYCOMB PANEL C 803
WITH FIXING SET C 660



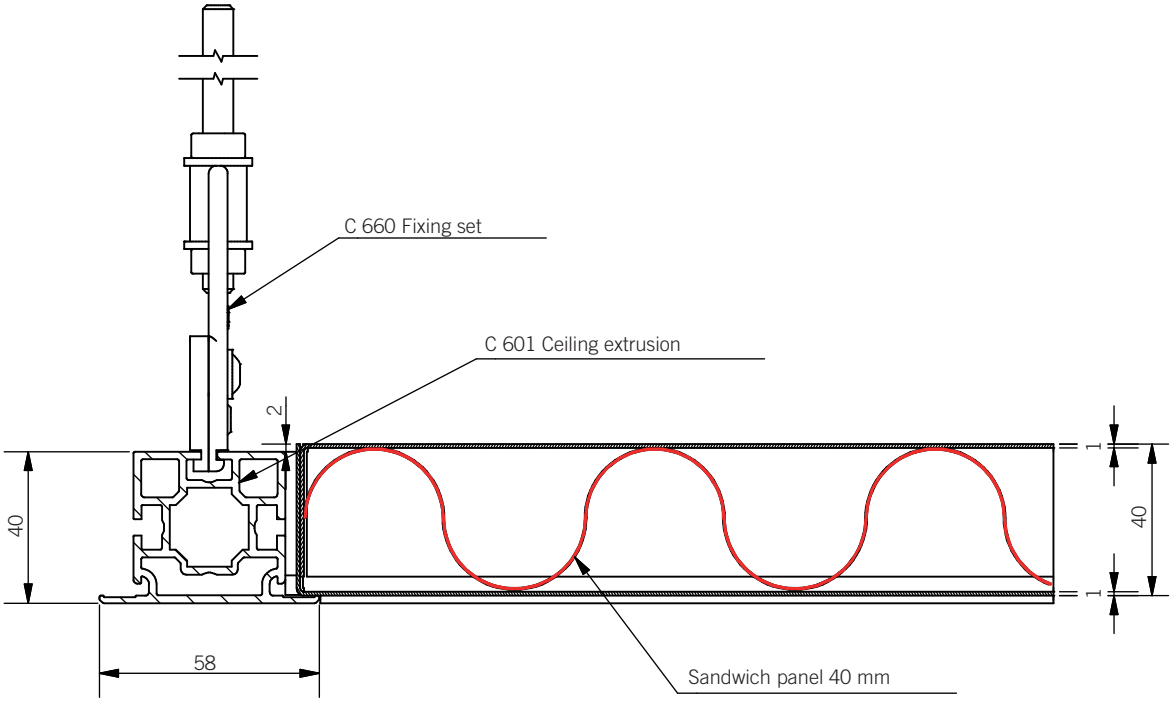


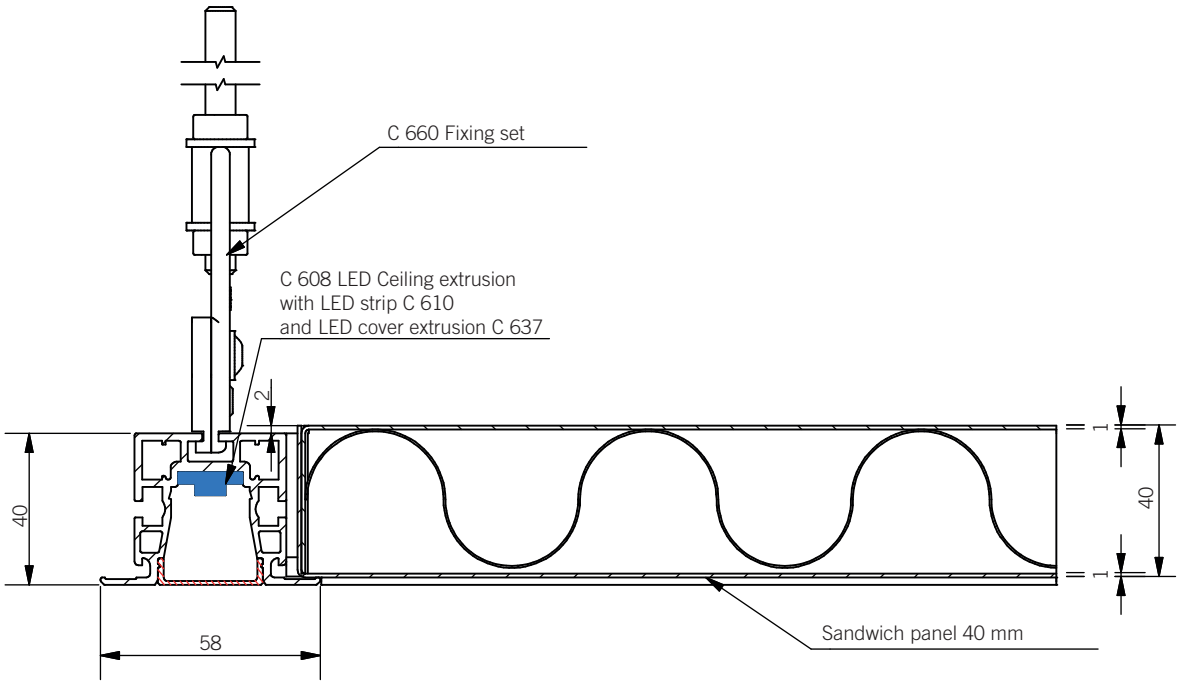
MOUNTING ALUMINIUM COMPOSITE PANEL C 826-6 WITH FIXING SET C 660



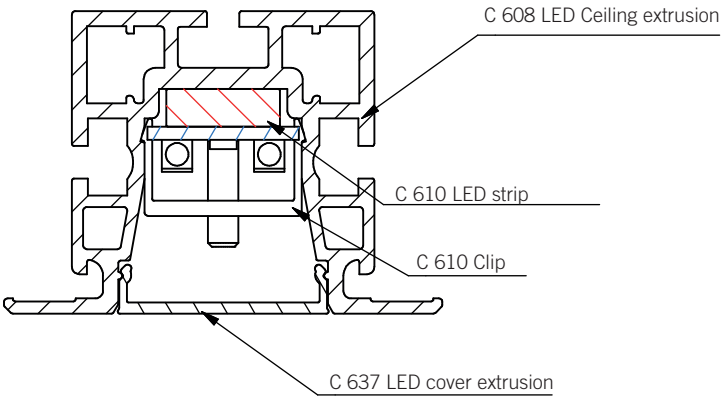


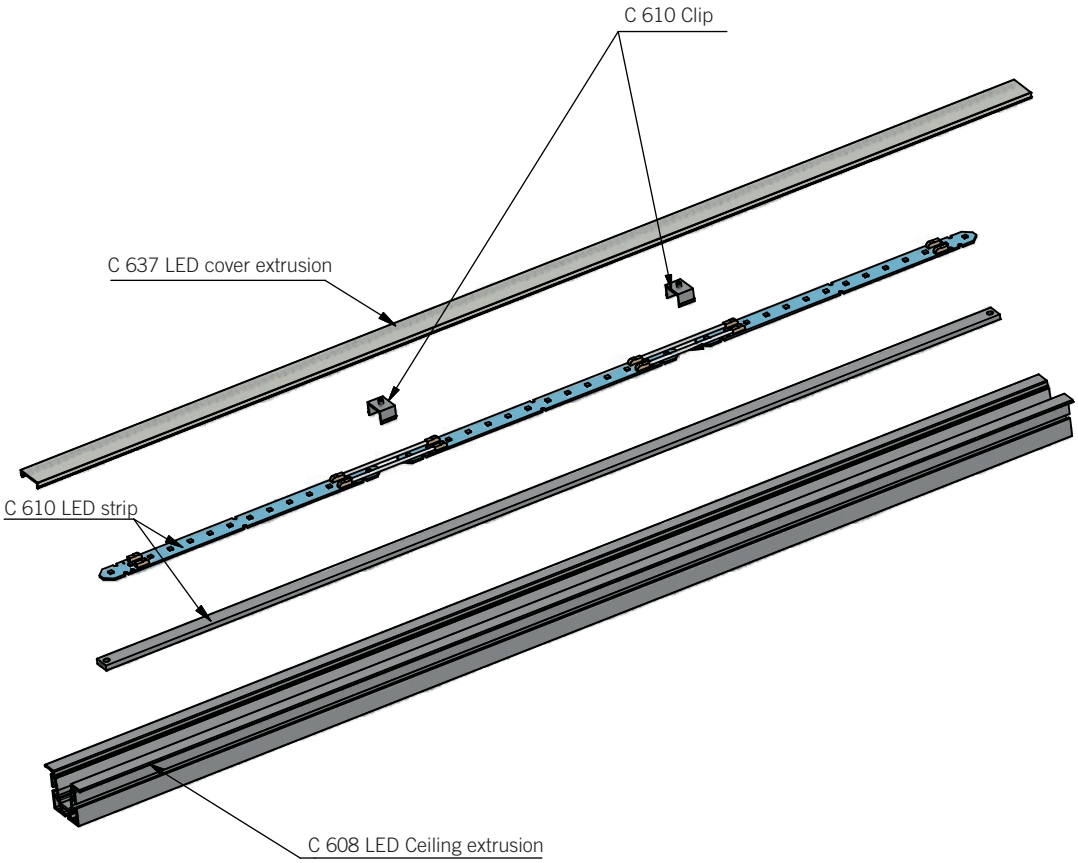
MOUNTING SANDWICH PANEL 40 MM
WITH FIXING SET C 660



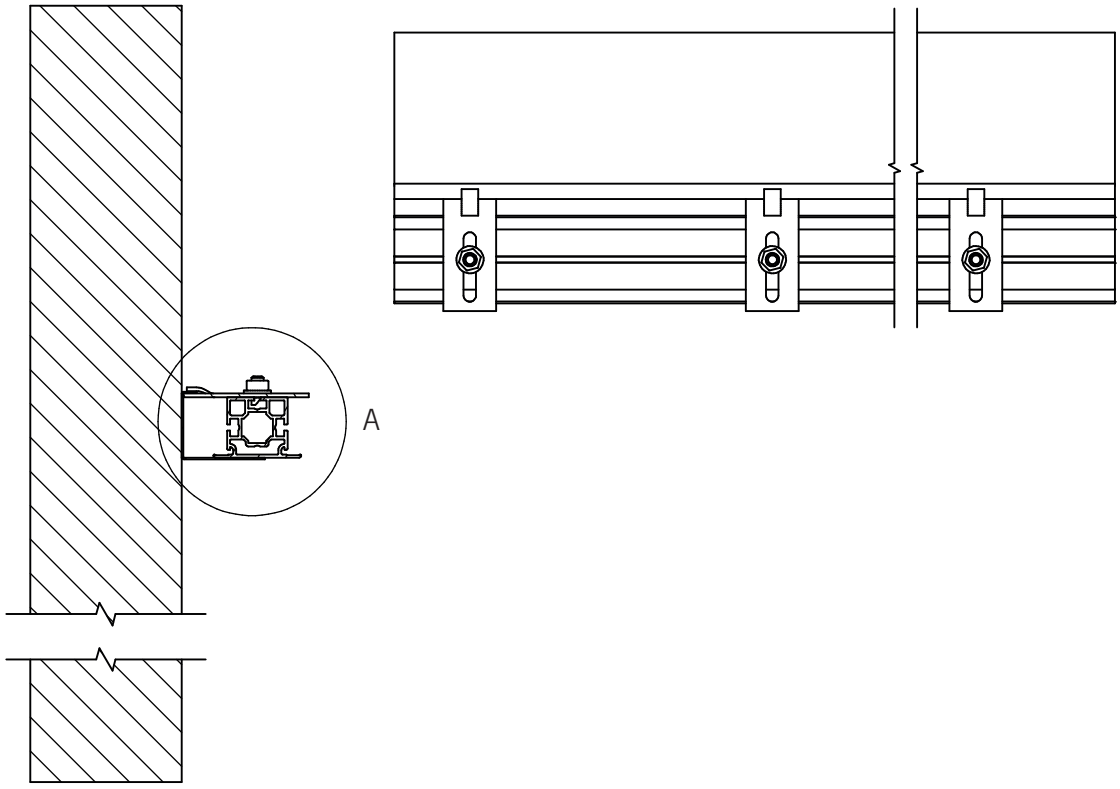


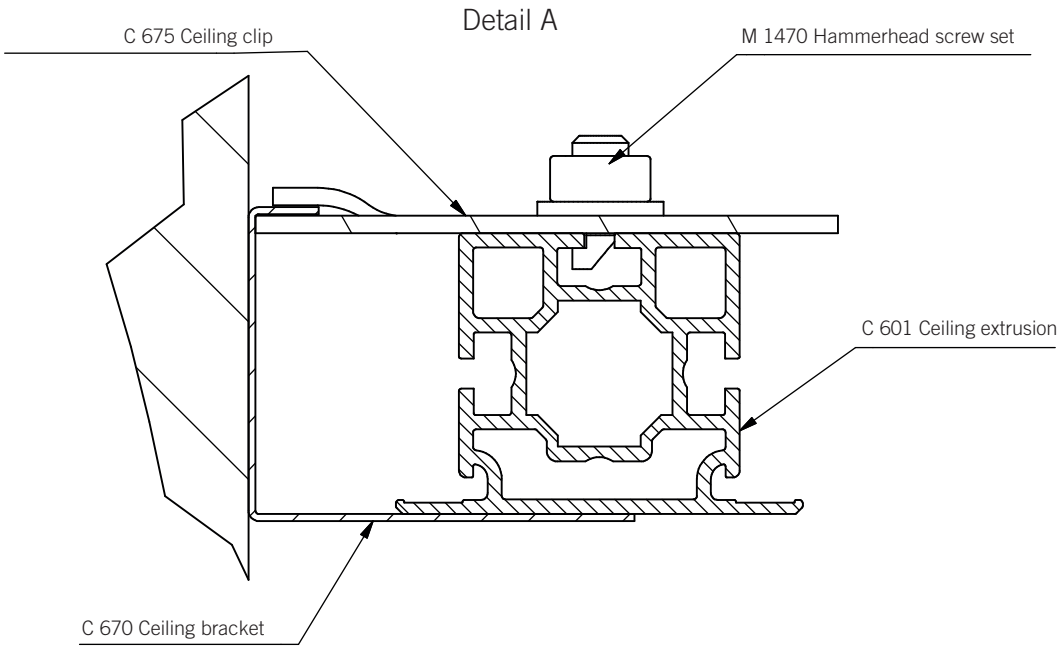
SET UP LED CEILING EXTRUSION C 608



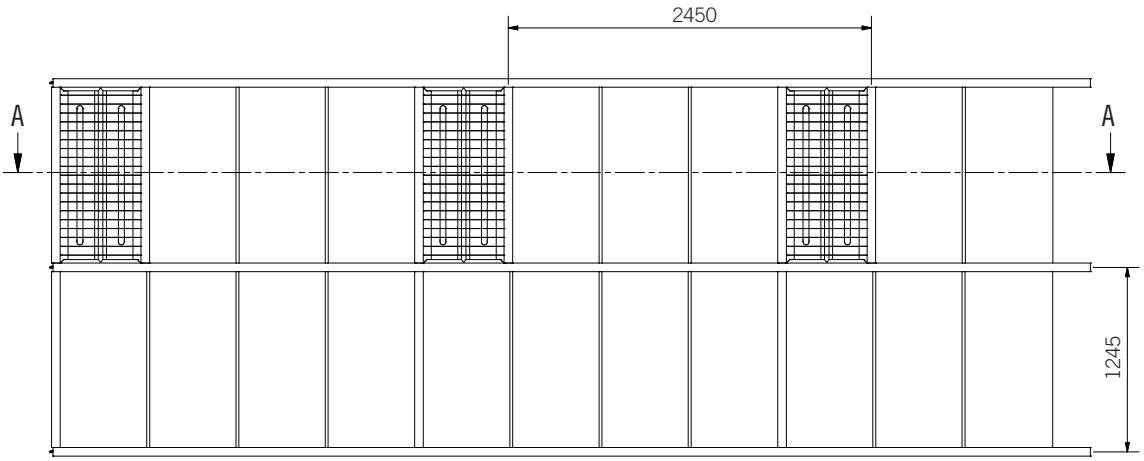


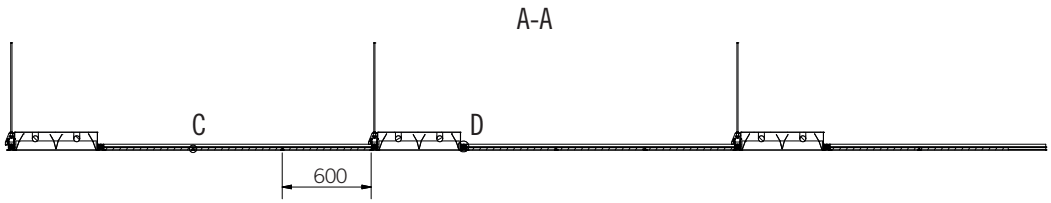
FIXATION TO WALL ON SITE
WITH CEILING BRACKET C 670

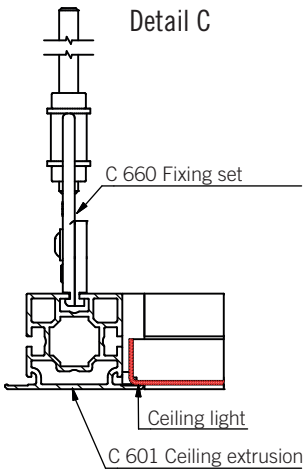


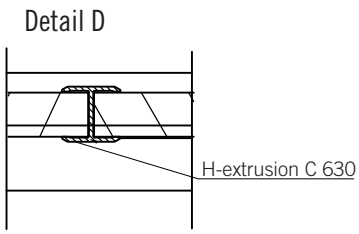


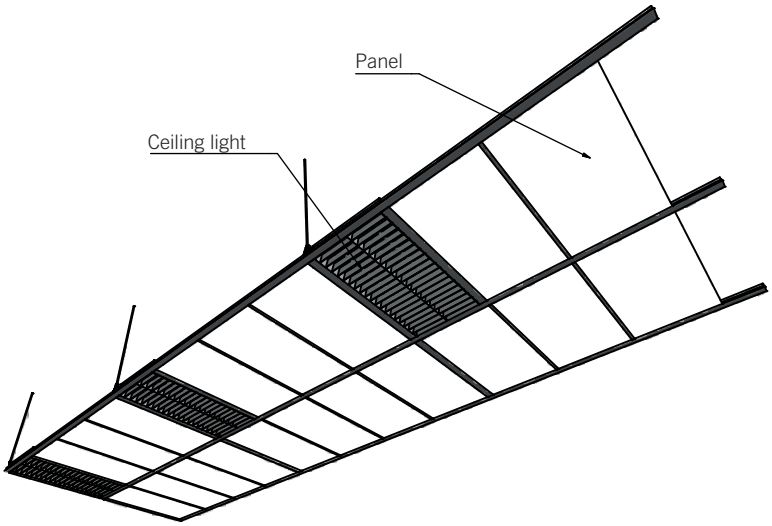
INSTALLATION OF CEILING LIGHT



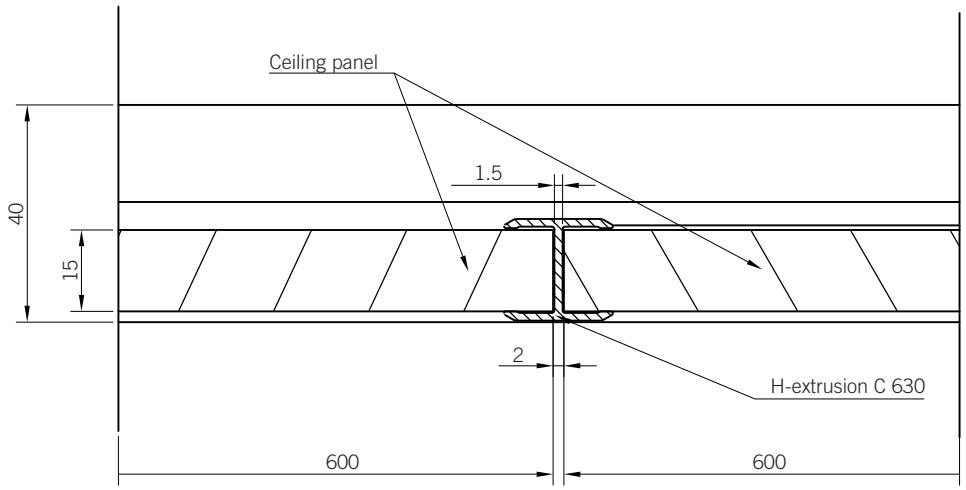




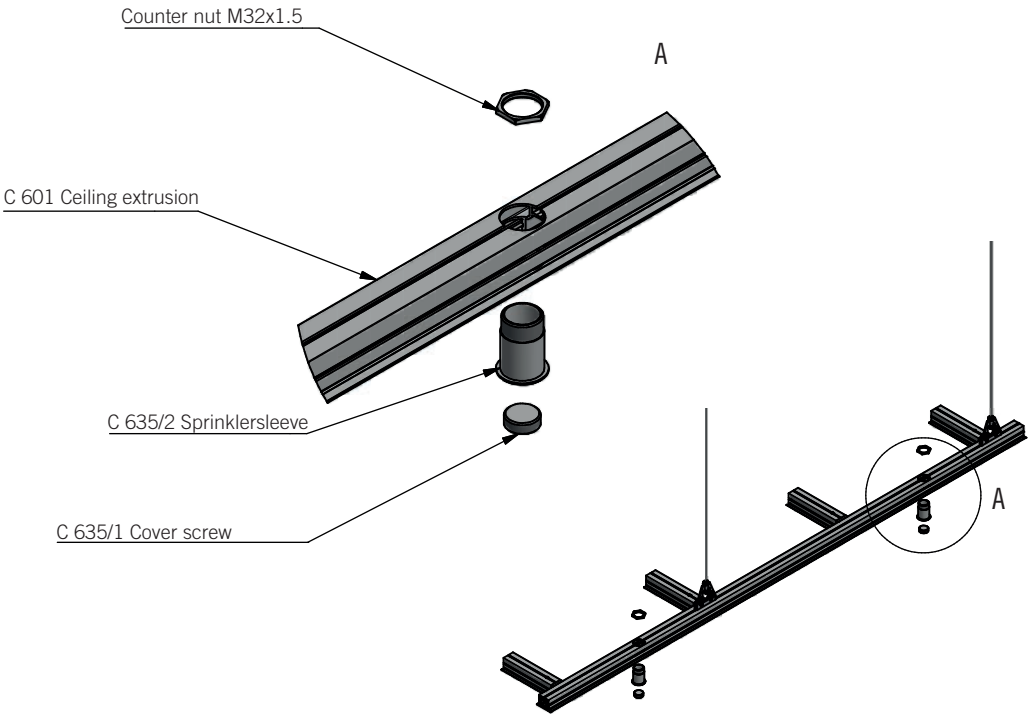




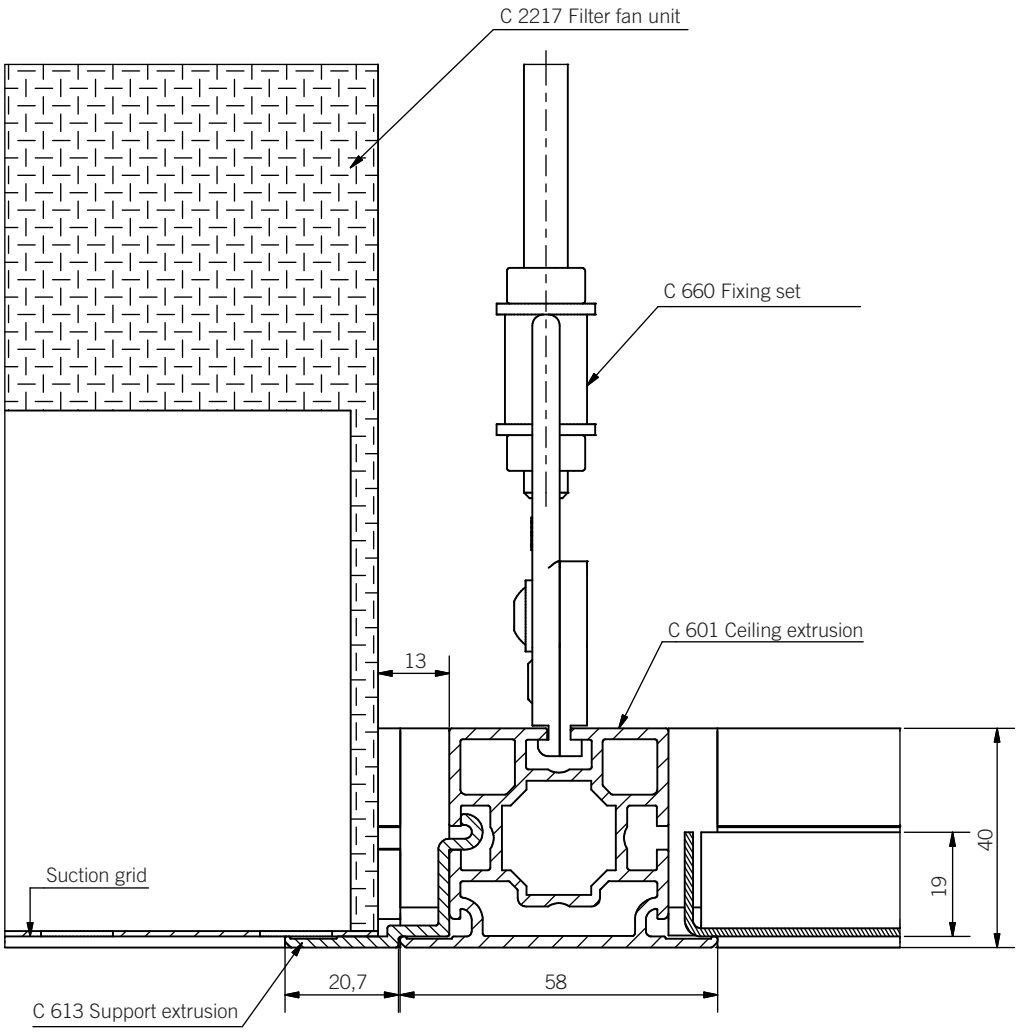
MOUNTING CONNECTOR H-EXTRUSION C 630

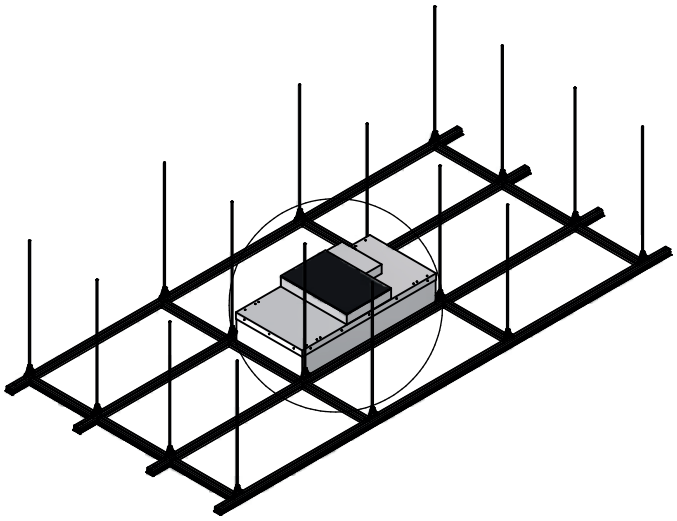


MOUNTING SPRINKLERSLEEVE C 635



INSTALLATION OF FILTER FAN UNIT WITH SUPPORT EXTRUSION C 613





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