



**FITTING OF PANEL  
ELEMENTS, ASSEMBLY  
POSSIBILITIES**



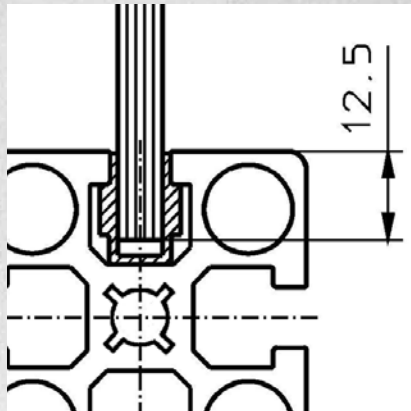
## FITTING OF PANEL ELEMENTS

There are two assembly modes that have to be distinguished: the mounting of elements into the profile groove and the subsequent attachment of panel elements.

The **mounting of elements into the groove** has to be pre-planned. It is recommendable to put together elements to a complete frame that can be fitted into existing constructions. This assembly method is of particular use for large panel elements, corrugated mesh and sealing constructions.

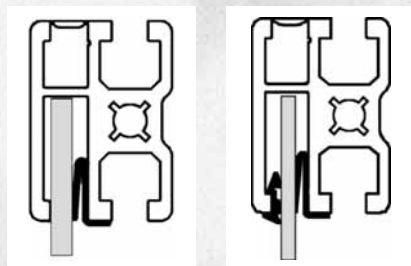
**Subsequent mounting of panel elements** is easier to perform and causes less damage.

### Mounting elements into the profile groove



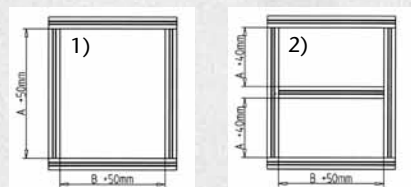
#### Cover profiles

Panel elements of max. 6 mm thickness can be mounted directly into the profile groove by using a PVC cover profile. Allow an enlargement of panel elements in x and y direction of: +25 mm



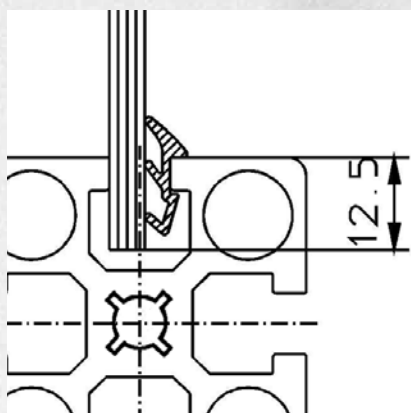
#### Clamp profile 45 x 32

The clamp profile 45 x 32 combines the properties of the construction profiles and the secure fixing for panel elements of max. 8 mm thickness. This profile is best suited for large elements and corrugated mesh. The ready assembled frames are subsequently fixed to the stand profiles with guard unit fixing angles. Quick removal of the units is ensured.



Allow an enlargement of panel elements in x and y direction of:

- 1) Simple frames: +50 mm
- 2) Frames with intermediate brackets: +40 mm



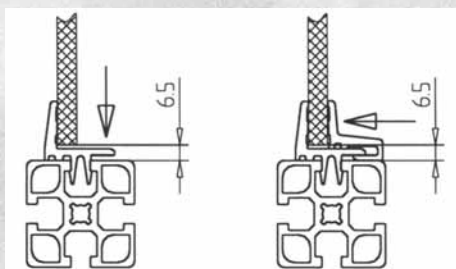
#### Insert seals

Sheet material, plastic panels, and panes etc. from 2 to 6 mm can easily be mounted and sealed with insert seal 2, 4, 5 and 6. The seals are subsequently pressed into free space between panel element and profile groove with a blunt tool made from wood or plastic.

For mounting of sheets < 2 mm use insert seals from both sides of the panel.

Allow an enlargement of panel elements in x and y direction of: +25 mm

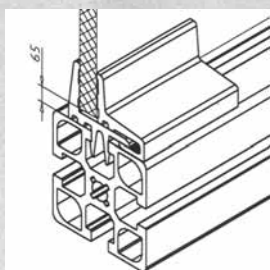
## Fitting of panels into existing frames



### Clamp profiles PVC

For easy fitting of panel elements of all kinds into existing frames without free space between frame and panel. Suitable for panel elements of max. 8 mm, also for corrugated mesh.

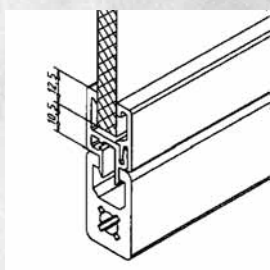
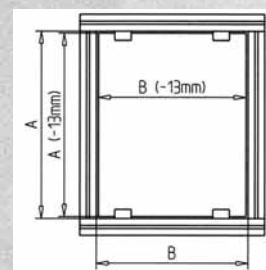
For the panel element allow a min of 13 mm reduction in x- and y-direction.



### Panel holder

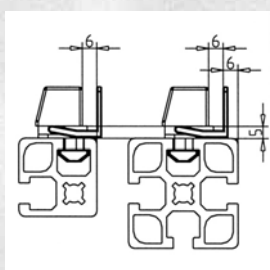
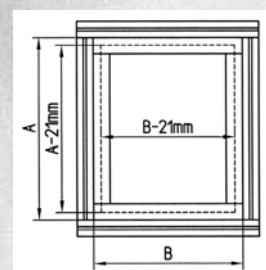
For easy and economic fitting of panel elements into existing frames. The panel holders are of two elements. Best suited for all panel elements of max. 8 mm thickness, except for corrugated mesh.

For the panel element allow a min. of 13 mm reduction in x- and y- direction. (6,5 free space between profile surface and panel)



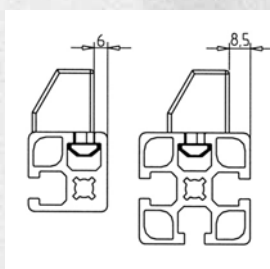
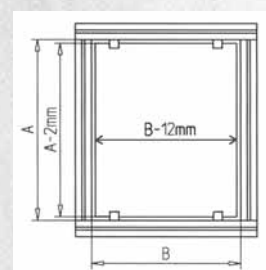
### Panel clamp profile

For an easy and cost efficient assembling of panel elements (also for subsequent assembling). No mitre cuts necessary. Suitable for panel elements up to a thickness of 8 mm. For a tight fastening of panel elements < 8 mm use insert seal.



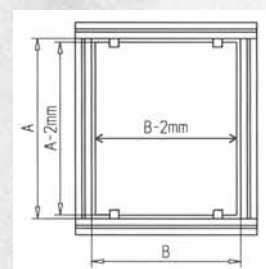
### Clamp block

Simple and economical fixing of panel elements. The clamp block consists of block and clip. Suitable for all panel elements from 2 - 6 mm thickness. Not for mesh. For the panel element allow a reduction of 12 mm in x- and y- direction (6 mm free space between profile surface and panel)

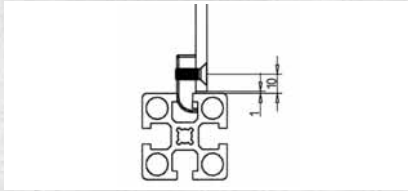


### Screw block

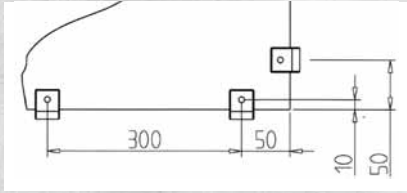
Suitable for all kind of panel elements up to 6 mm thickness, except mesh. For the panel element allow a reduction of 2 mm in x- and y- direction (1 mm free space between profile surface and panel)



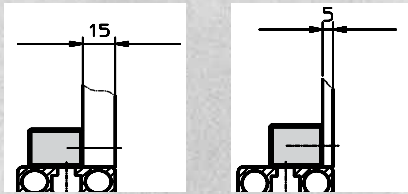




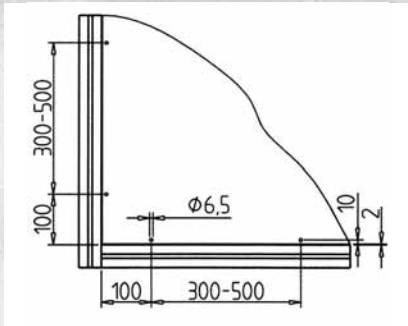
**Thread socket**



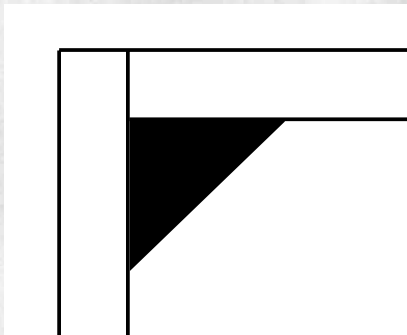
Secure and easy fixing of panel elements of all kinds, except for corrugated mesh. Insert the socket into profile grooves in 300 mm grid. Select screw form and length appropriate to thickness and type of panel element.  
For the panel element allow a min. of 2 mm reduction in x- and y-direction.



**Multiblock**

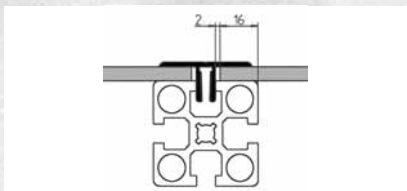


The multiblocks are installed in the clear space of the frame construction at a spacing of approx. 300 mm using cylinder-head screws M6 and rhombus nuts.  
Best suited for compound sheet materials. Material of 5-15 mm can be attached bundled. Select screw form and length appropriate to type and thickness of panel element. Bore holes for the attachment screws in the panel elements 6.5 mm in diameter and with 10 mm distance to edge.  
For the panel element, allow a min. of 4 mm reduction in the x- and y-direction (- 2 mm space on all sides).

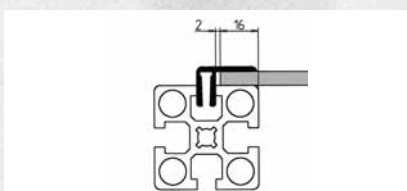


**Angles**

Fixing of on-lying panel elements for tables, consoles. See also Page 65



**Panel-clamping profile**

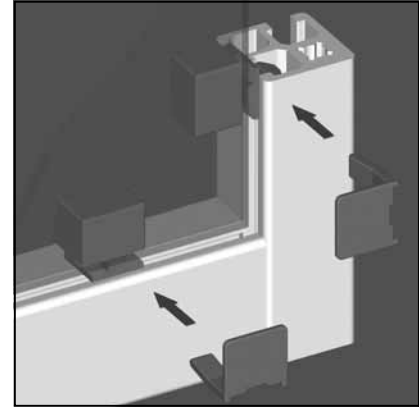
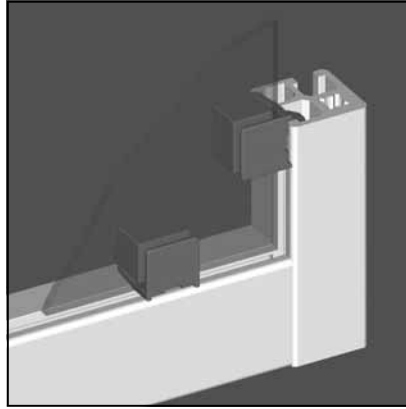
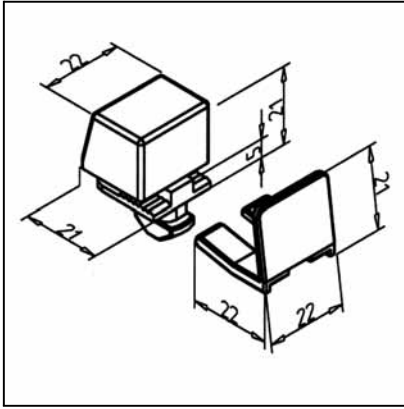


Suitable for panel elements from 2 to 10 mm.  
Insert fixing bores  $\varnothing$  5,5 mm for set screw M5 in ~250 mm grid. Press into profile groove and fix with set screw M5 x 16.

Best suited for panels, corrugated mesh and press mesh.

## PANEL CLAMP BLOCK 32

Part. N° 22.1110/1



### TECH. DATA / ITEMS SUPPLIED

- PA, grey	
- Weight	0,010 kg

### APPLICATIONS

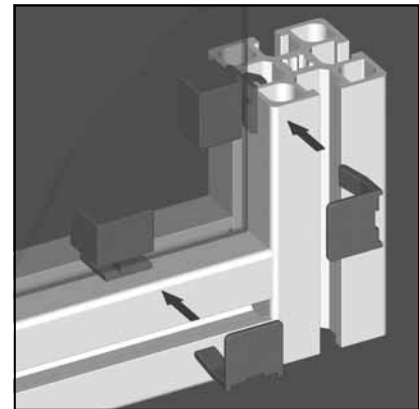
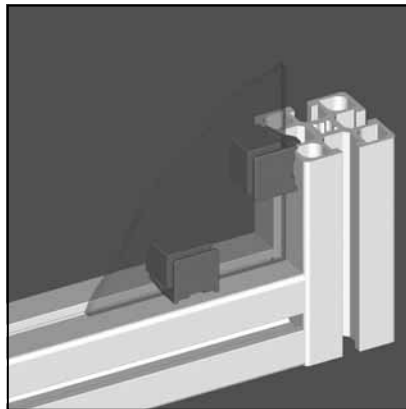
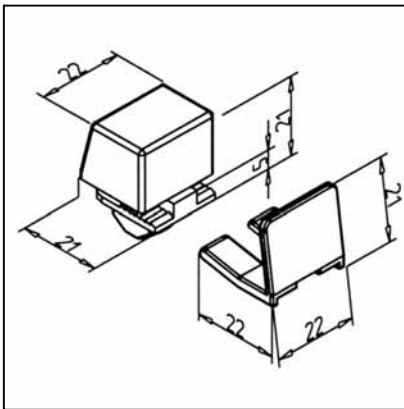
- Suitable for all profiles > 32
- Subsequent fitting of panel elements from 2 to 6 mm thickness; For the panel element allow a min. of 12 mm reduction in x- and y-direction

### ASSEMBLY

- Insert socket into profile groove
- Insert panel elements
- Press on clip
- Disassembly: lift clip with a screwdriver
- See page 158

## PANEL CLAMP BLOCK 45

Part. N° 22.1111/1



### TECH. DATA / ITEMS SUPPLIED

- PA, grey	
- Weight	0,010 kg

### APPLICATIONS

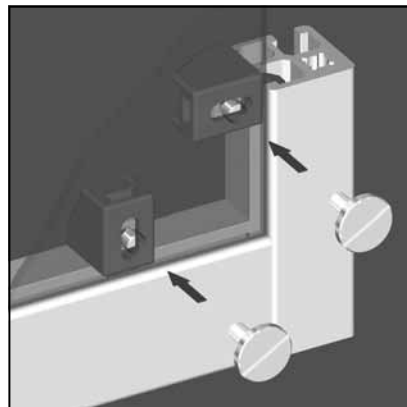
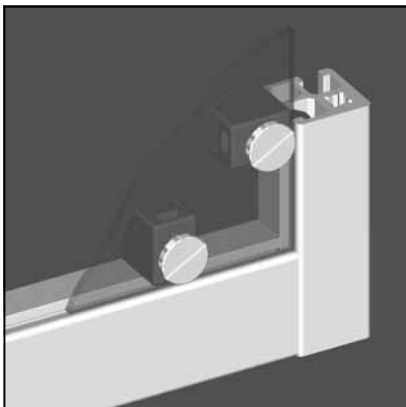
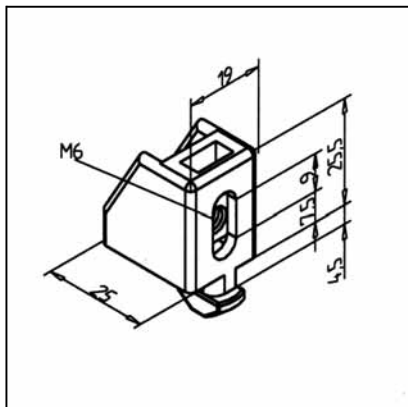
- Suitable for all profiles > 45
- Subsequent fitting of panel elements from 2 to 6 mm thickness; For the panel element allow a min. of 12 mm reduction in x- and y-direction

### ASSEMBLY

- Insert socket into profile groove
- Insert panel elements
- Press on clip
- Disassembly: lift clip with a screwdriver
- See page 158

## SCREW BLOCK 32

Part. N° 22.1112/1



### TECH. DATA / ITEMS SUPPLIED

- PA, grey
- Weight 0,010 kg

### APPLICATIONS

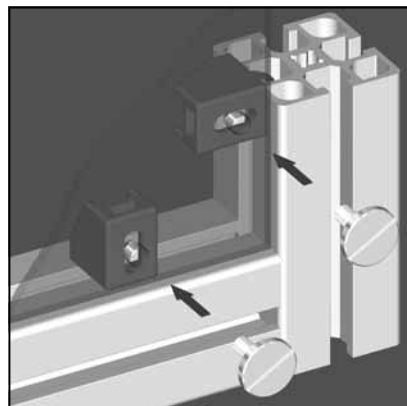
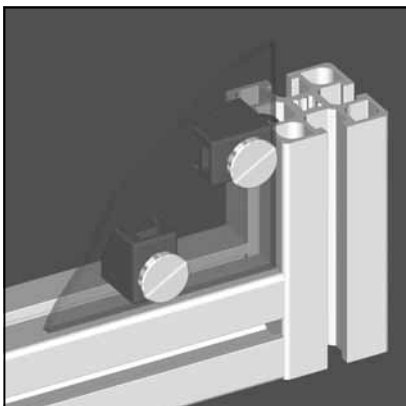
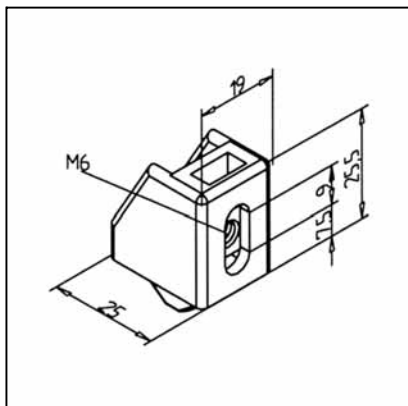
- Suitable for all profiles > 32
- Subsequent fitting of panel elements from 2 to 6 mm thickness; a reduction in x- or y-direction of maximum 1 mm is requested

### ASSEMBLY

- Insert socket into profile groove
- Insert bored panel elements
- Screw with suited screws M6 (recommended: pan head screw 16 Part N° 21.1246/0)
- See page 158

## SCREW BLOCK 45

Part. N° 22.1113/1



### TECH. DATA / ITEMS SUPPLIED

- PA, grey
- Weight 0,010 kg

### APPLICATIONS

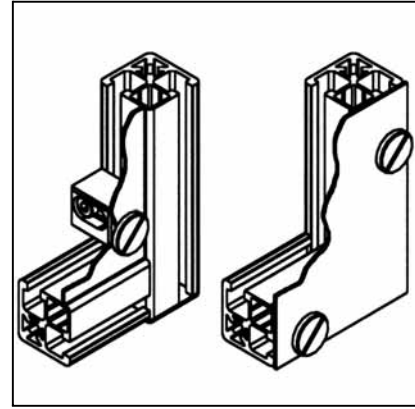
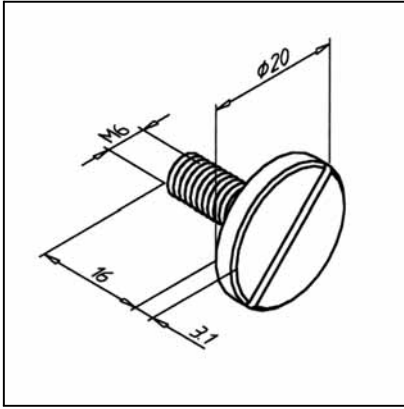
- Suitable for all profiles > 45
- Subsequent fitting of panel elements from 2 to 6 mm thickness; a reduction in x- or y-direction of maximum 1 mm is requested

### ASSEMBLY

- Insert socket into profile groove
- Insert bored panel elements
- Screw with suited screws M6 (recommended: pan head screw 16 Part N° 21.1246/0)
- See page 158

## PAN HEAD SCREW 16

Part. N° 21.1246/0



### TECH. DATA / ITEMS SUPPLIED

- Steel, zinc-plated
- Screw head: Ø 20
- M6 x 16
- Weight 0,010 kg

### APPLICATIONS

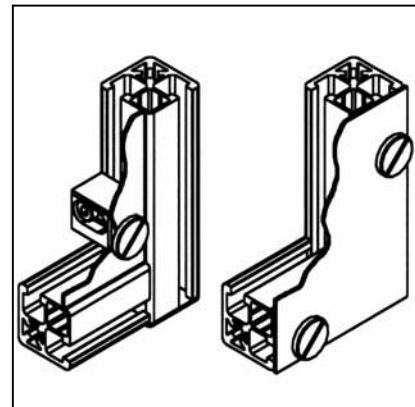
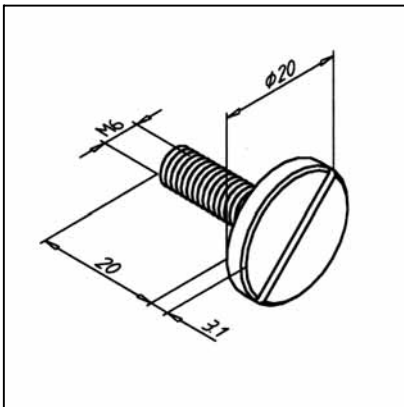
- Mounting of panel elements directly on profile groove or
- In connection with screw block 32 Part N° 22.1112/0 or multiblock Part N° 21.1355/0

### ASSEMBLY

- Predrill panel elements: Ø 6,5 mm
- Recommed grid dimension: ca. 150 mm
- Edge distance: see screw block 32 and multiblock

## PAN HEAD SCREW 20

Part. N° 21.1246/1



### TECH. DATA / ITEMS SUPPLIED

- Steel, zinc-plated
- Screw head: Ø 20
- M6 x 20
- Weight 0,010 kg

### APPLICATIONS

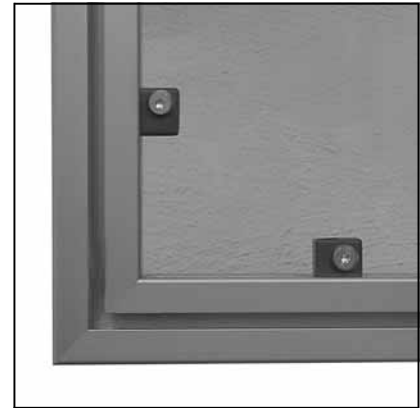
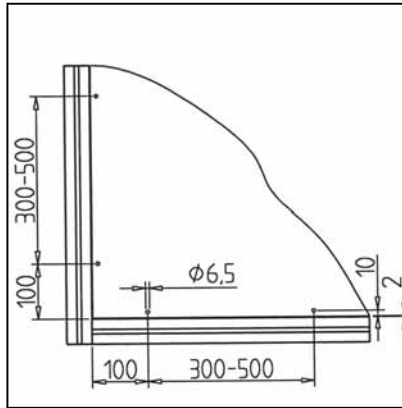
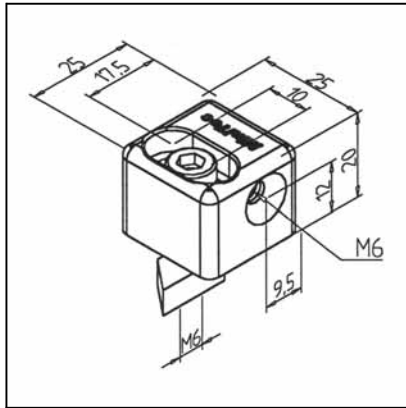
- Mounting of panel elements directly on profile groove or
- In connection with screw block 32 Part N° 22.1112/0 or multiblock Part N° 21.1355/0

### ASSEMBLY

- Predrill panel elements: Ø 6,5 mm
- Recommed grid dimension: ca. 150 mm
- Edge distance: see screw block 32 and multiblock

## MULTIBLOCK GD

Part. N° 21.1355/0



### TECH. DATA / ITEMS SUPPLIED

- AL GD, powder coated, grey
- Fixing kit
- Without pan head screw
- Weight 0,035 kg/m

### APPLICATIONS

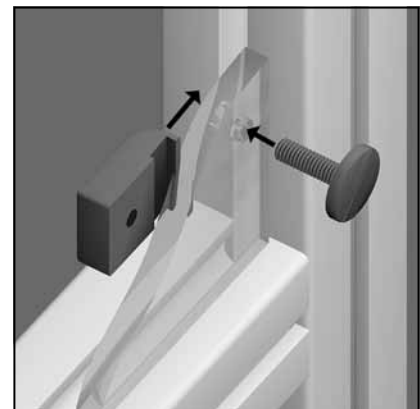
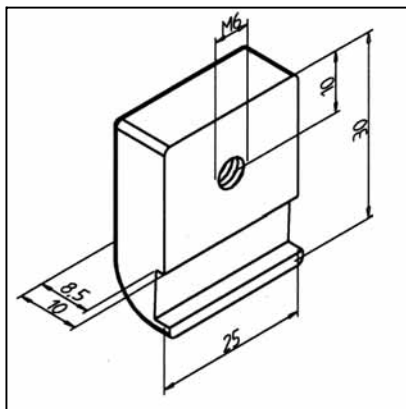
- Subsequent fitting of panel- and add-on elements
- Flush installation of panels, thickness 5 to 15 mm

### ASSEMBLY

- For all profile grooves
- Subsequent fastening of panel elements with screws M6 or pan head screw
- Calculation of the panel element dimension: see page 159
- Fixing bores Ø 6,5 for screws M6, 8 mm from edge of the panel element

## THREAD SOCKET GD

Part. N° 21.1117/1



### TECH. DATA / ITEMS SUPPLIED

- Aluminium GD
- Without pan head screw
- Weight 0,018 kg/m

### APPLICATIONS

- Fastening of panel elements in profile frames
- Table tops

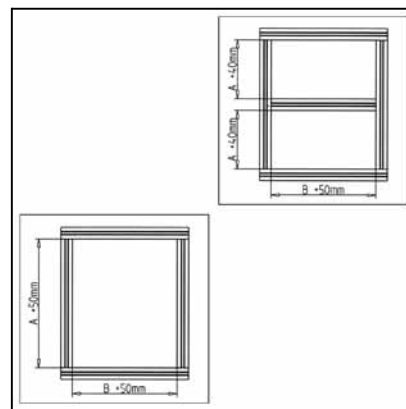
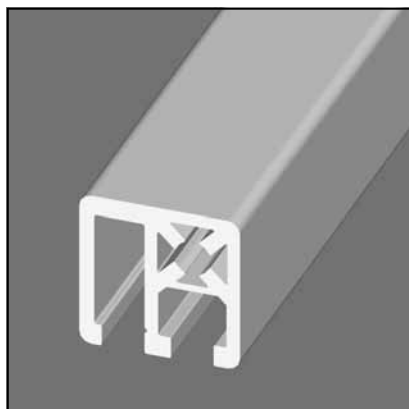
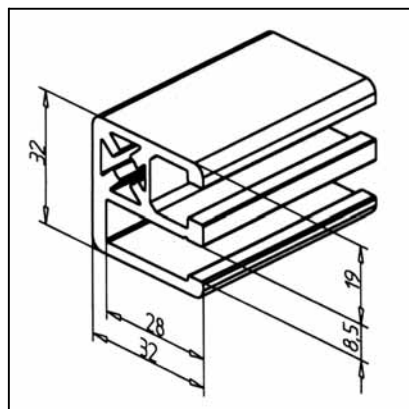
### ASSEMBLY

- Insert the thread socket into profile groove
- Screw the element with screws M6 or with pan head screw
- Edge distance: 10 mm
- Calculation of the panel element dimension: see page 159



## CLAMP PROFILE 32 X 32

Part. N° 20.1070/0



### TECHN. DATA / ITEMS SUPPLIED

- lx =	5,024 cm <sup>4</sup>
- ly =	4,418 cm <sup>4</sup>
- wx =	3,041 cm <sup>3</sup>
- wy =	2,398 cm <sup>3</sup>
- Weight	1,211 kg/m
- Length	6 m
- Packing unit	48 m

### APPLICATIONS

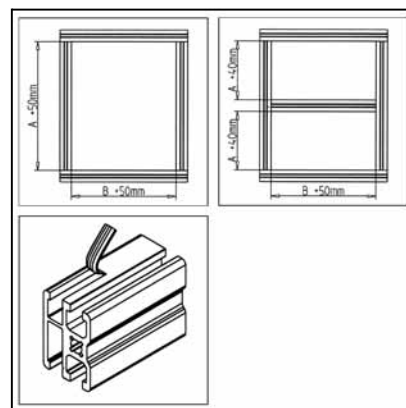
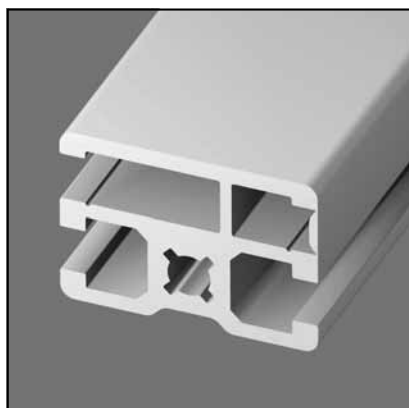
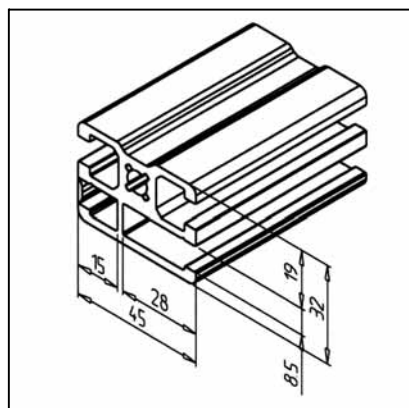
- All types of safety equipment
- For clamping surface elements such as wire mesh, panes, and plates up to a thickness of 8 mm
- Additional struts from clamping profile 45 x 32 must be used for larger safety fields to ensure sufficient protection against the surface elements pushing out; separate out covering strips for profile 45 x 32

### ASSEMBLY

- MiniTec profile connector; no drilling required
- No cut-outs in surface elements required
- Preassemble the framework on three sides with the closed side outwards
- Insert surface element and last profile strut
- Push i distance profile on the inside or knock in with a flat tool
- Also mount appropriate seal for surface elements < 4 mm

## CLAMP PROFILE 45 X 32

Part. N° 20.1053/0



### TECHN. DATA / ITEMS SUPPLIED

- lx =	6,465 cm <sup>4</sup>
- ly =	9,521 cm <sup>4</sup>
- wx =	3,999 cm <sup>3</sup>
- wy =	4,119 cm <sup>3</sup>
- Weight	1,615 kg/m
- Length	6 m
- Packing unit	48 m

### APPLICATIONS

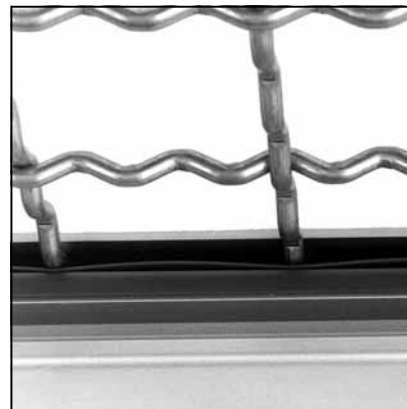
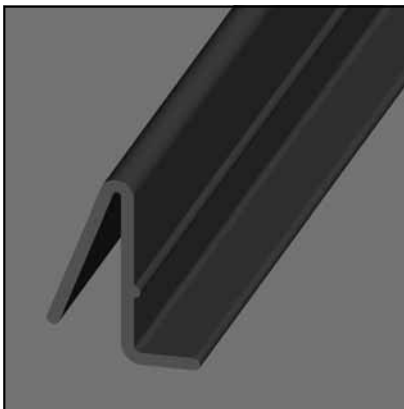
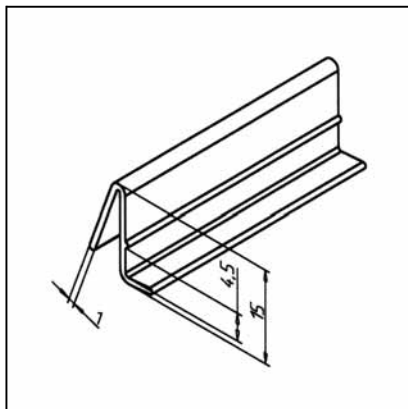
- All kinds of guard units
- Clamping of corrugated mesh or panel elements of all kinds up to 8 mm thickness
- For larger guards we propose to mount an additional brace to guarantee sufficient security
- After open the cover, the second groove is accessible
- See page 157

### ASSEMBLY

- MiniTec power-lock fastener; no bores necessary
- No cut-outs in panel elements for fastening elements necessary
- Premount 3 sides of the frame, the eve side of the profile outwards
- Insert surface element and mount last profile brace
- Depress the distance profile on the inner side or hit it with a flat tool
- For panel elements < 4 mm mount an additional insert seal

## DISTANCE PROFILE

Part. N° 22.1039/0



### TECHN. DATA / ITEMS SUPPLIED

- ABS, gray	
- Weight	0,055 kg/m
- Length	2 m

### APPLICATIONS

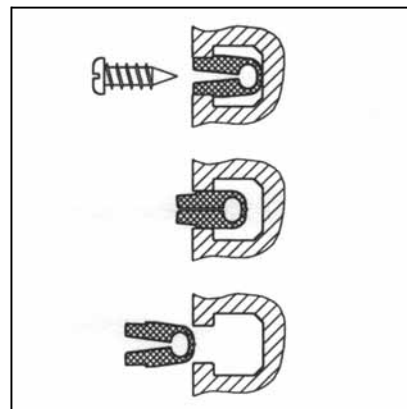
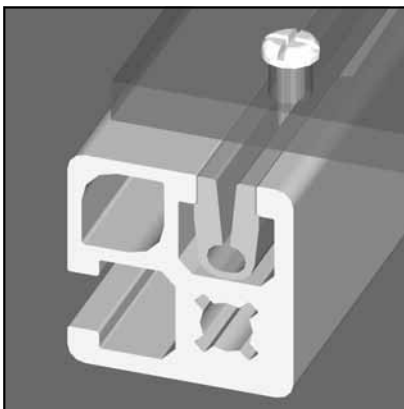
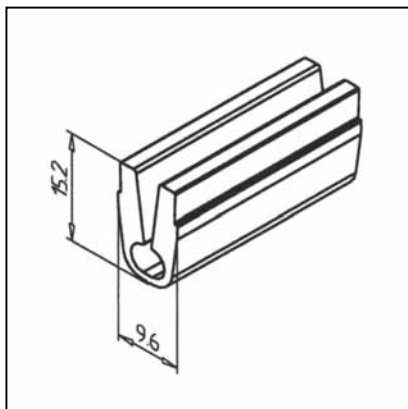
- Spacing element to use with clamp profile 45 x 32 Part N° 20.1053/0 and clamp profile 32 x 32 Part N° 20.1070/0 to fix corrugated mesh or panel elements
- Also for use with all other profiles to fix panel elements

### ASSEMBLY

- Mount frame and panel elements
- Press in with suitable tool in space between panel element and clamp profile

## SCREW-IN STRIP

Part. N° 22.1076/0



### TECH. DATA / ITEMS SUPPLIED

- PVC, grey RAL 7012	
- Weight	0,118 kg/m
- Length	2 m

### APPLICATIONS

- Easy fixing of panels or panel elements at any point

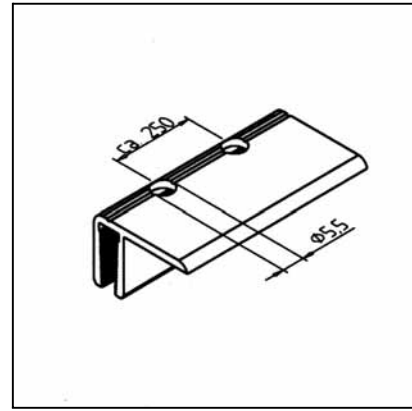
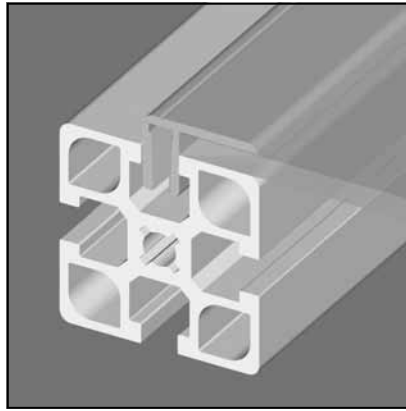
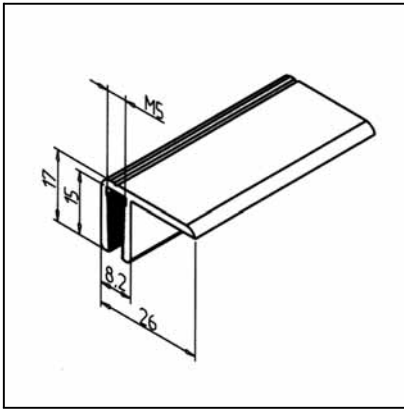
### ASSEMBLY

- Clip profile into groove
- Fix element with commercial-type selftapping screws Ø 4-5 mm, Length min: 16 mm
- For material 1-6 mm, use self tapping screw 3,5 x 16 mm Part N° 21.1365/0



## PANEL CLAMPING PROFILE

Part. N° 20.1025/0



### TECH. DATA / ITEMS SUPPLIED

- Aluminium, anodized E6/EV1	
- Weight	0,260 kg/m
- Length	6 m

### APPLICATIONS

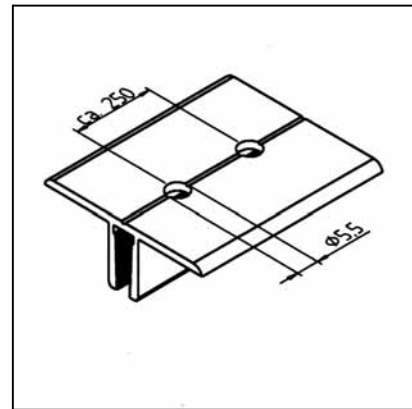
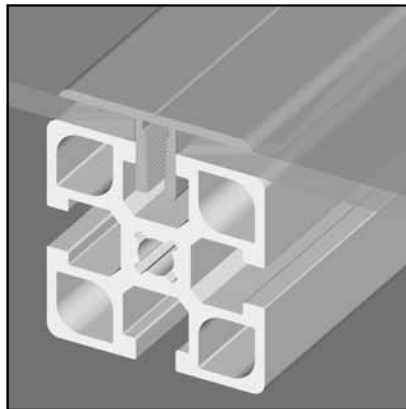
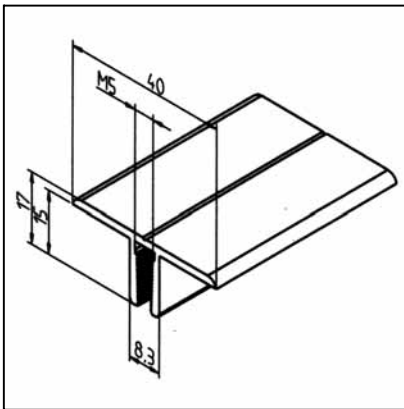
- Fastening of panel elements
- Subsequent fitting of panels on facade side
- Subsequent fitting of panel elements of max. 10 mm thickness

### ASSEMBLY

- Drill bores Ø 5,5 mm for set-screw M5 in grid dimension of 250 mm
- Press into profile groove and clamp with set-screw M5 x 12
- Calculation of the panel element dimension: see page 159

## DOUBLE PANEL CLAMPING PROFILE

Part. N° 20.1018/0



### TECH. DATA / ITEMS SUPPLIED

- Aluminium, anodized E6/EV1	
- Weight	0,375 kg/m
- Length	6 m

### APPLICATIONS

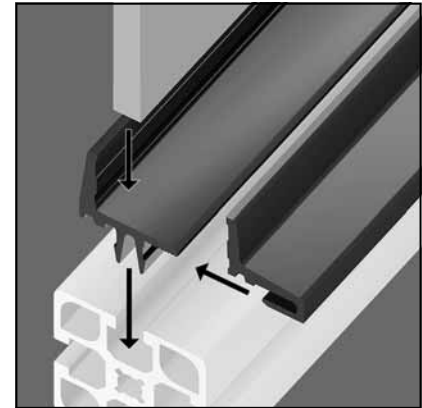
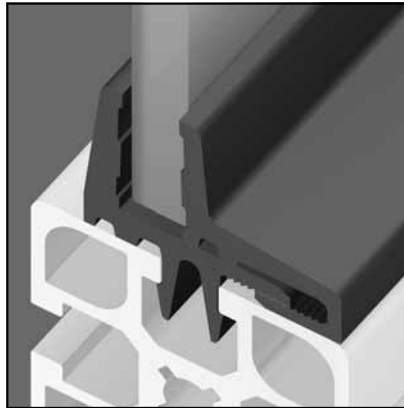
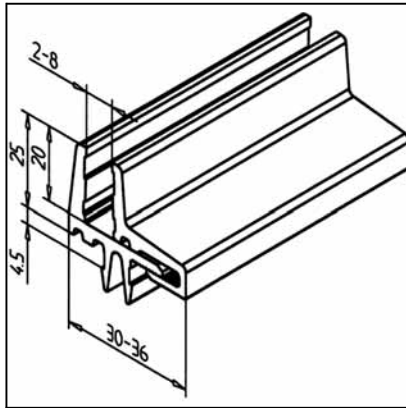
- Butt-joint fastening of panels
- Support of panel elements of a thickness up to 10 mm

### ASSEMBLY

- Drill bores Ø 5,5 mm for set-screw M5 in grid dimension of 250 mm
- Press into profile groove and clamp with set-screw M5 x 12
- Also see panel clamping profile **Part N° 20.1025/0**
- Calculation of the panel element dimension: see page 159

## CLAMP PROFILE PVC

Part. N° 22.1092/0



### TECH. DATA / ITEMS SUPPLIED

- Hard PVC, grey
- On request also deliverable in black  
**Part N° 22.1080/0**
- Weight 0,230 kg/m
- Length 2 m

### APPLICATIONS

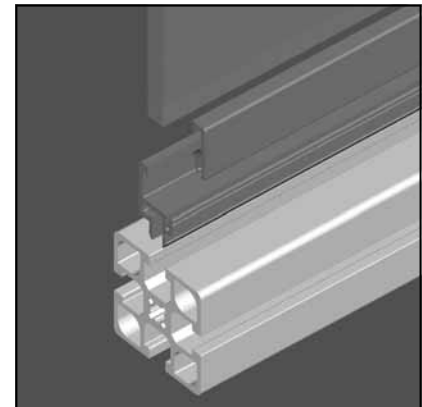
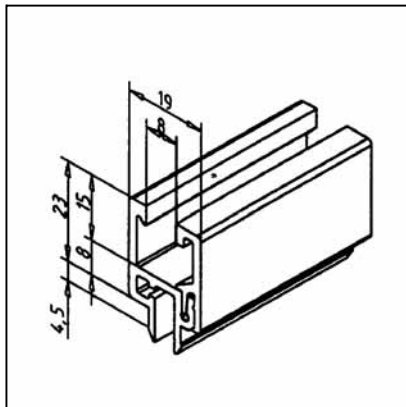
- Attachment of panel elements up to 8 mm
- If the panel elements are < 4 mm, a microcellular rubber has to be inserted
- Windows, door fillins
- No free space between profile and panel element
- Also suitable for corrugated mesh

### ASSEMBLY

- Snap socket half into profile groove
- Insert the panel element
- Press clamping half firmly on socket half
- Calculation of the panel element dimension: see page 158

## PANEL CLAMP PROFILE

Part. N° 22.1107/1



### TECHN. DATA / ITEMS SUPPLIED

- ABS, grey
- On request also deliverable in black
- Weight 0,158 kg/m
- Length 2 m

### APPLICATIONS

- Useful for subsequent fitting of profiles into existing profile frames
- Fitting of panel elements up to 8 mm
- For panels up to 8 mm use additional insert seal
- Windows, panels
- No air gap

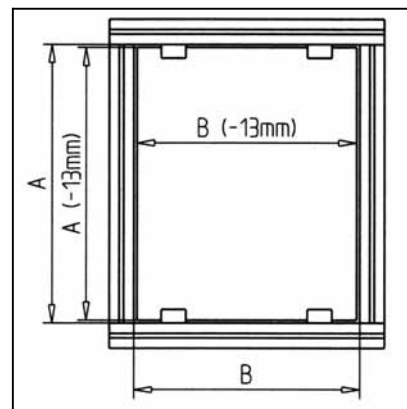
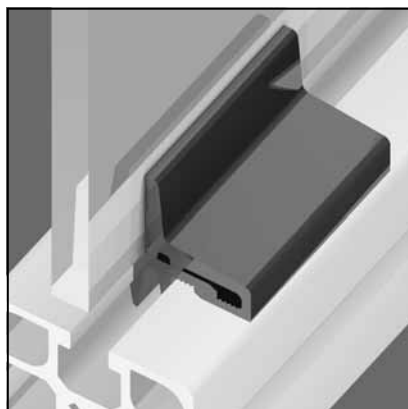
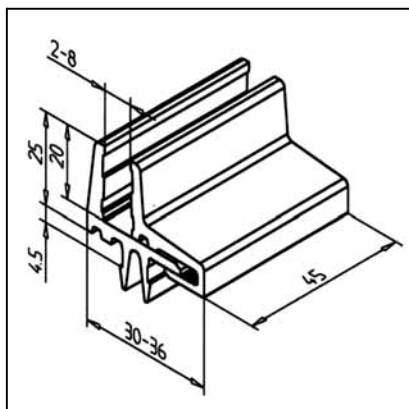
### ASSEMBLY

- Snap socket half into profile groove
- Insert the panel element
- Press clamping half firmly on socket half
- Calculation of the panel element dimension: see page 157
- No mitre cut necessary



## PANEL HOLDER

Part. N° 22.1090/1



### TECH. DATA / ITEMS SUPPLIED

- Hard PVC, grey
- On request also deliverable in black  
**Part N° 22.1090/0**
- Weight 0,011 kg

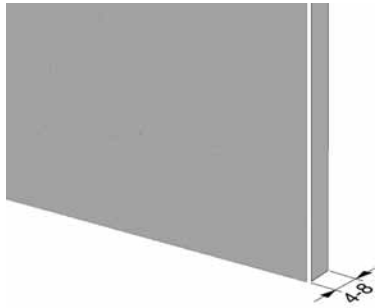
### APPLICATIONS

- Attachment of panel elements up to 8 mm
- If the panel elements are < 4 mm, a microcellular rubber has to be inserted
- Windows, door fillins
- Not suitable for corrugated mesh

### ASSEMBLY

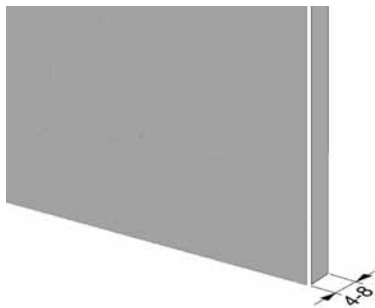
- Snap socket half into profile groove
- Insert the panel element
- Press clamping half firmly on socket half
- Calculation of the panel element dimension: see page 158

### ACRYLIC



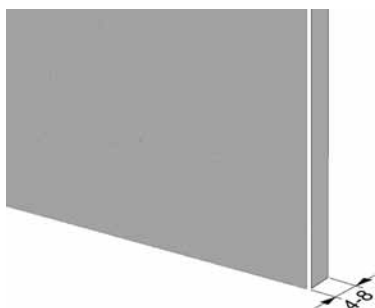
Part N°	Thickness	Colour	Weight	Dimension mm
21.1832/0	4 mm	tinted	4,76 kg/m <sup>2</sup>	2030 x 3050
21.1811/0	5 mm	tinted	5,95 kg/m <sup>2</sup>	2030 x 3050
21.1812/0	6 mm	tinted	7,14 kg/m <sup>2</sup>	2030 x 3050
21.1813/0	8 mm	tinted	9,52 kg/m <sup>2</sup>	2030 x 3050
21.1826/0	4 mm	clear	4,76 kg/m <sup>2</sup>	2050 x 3050
21.1836/0	5 mm	clear	5,95 kg/m <sup>2</sup>	2030 x 3050
21.1827/0	6 mm	clear	7,14 kg/m <sup>2</sup>	2050 x 3050
21.1828/0	8 mm	clear	9,52 kg/m <sup>2</sup>	2050 x 3050

### POLYCARBONATE



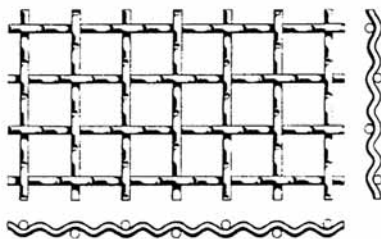
Part N°	Thickness	Colour	Weight	Dimension mm
21.1809/0	4 mm	tinted	4,80 kg/m <sup>2</sup>	2050 x 3050
21.1808/0	5 mm	rauch	5,95 kg/m <sup>2</sup>	2050 x 3050
21.1807/0	6 mm	tinted	7,20 kg/m <sup>2</sup>	2050 x 3050
21.1821/0	8 mm	tinted	9,78 kg/m <sup>2</sup>	2050 x 3050
21.1829/0	4 mm	clear	4,80 kg/m <sup>2</sup>	2050 x 3050
21.1833/0	5 mm	clear	5,95 kg/m <sup>2</sup>	2050 x 3050
21.1830/0	6 mm	clear	7,20 kg/m <sup>2</sup>	2050 x 3050
21.1831/0	8 mm	clear	9,78 kg/m <sup>2</sup>	2050 x 3050

### PETG

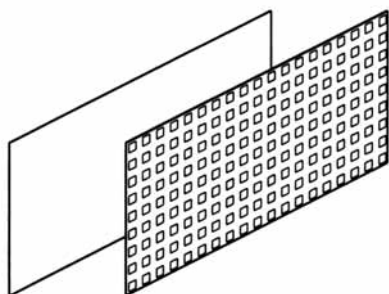


Part N°	Thickness	Colour	Weight	Dimension mm
21.1858/0	4 mm	clear	5,08 kg/m <sup>2</sup>	2050 x 3050
21.1859/0	5 mm	clear	6,35 kg/m <sup>2</sup>	2050 x 3050
21.1860/0	6 mm	clear	7,62 kg/m <sup>2</sup>	2050 x 3050
21.1861/0	8 mm	clear	10,16 kg/m <sup>2</sup>	2050 x 3050

### CORRUGATED MESH



Part N°	Wire size	Mesh-size	Weight kg/m <sup>2</sup>	max. Size mm	Material
21.1803/0	4 mm	30 mm	6,2	2000 x 3000	St, zincpl.
21.1805/0	4 mm	40 mm	4,7	2000 x 2000	St, zincpl.
21.1818/2	4 mm	30 mm	2,14	2000 x 2000	AlMg3
21.1818/1	4 mm	40 mm	1,6	2000 x 2000	AlMg3



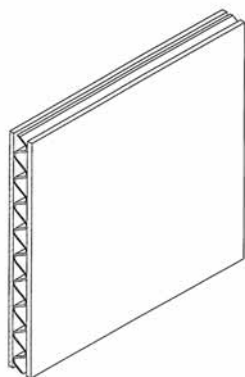
### ON DEMAND

Aluminium-sheets, steel-plates, perforated plates, laminated wood panels



## CORRUGATED ALUMINIUM PANEL

Part N° 21.1816/0

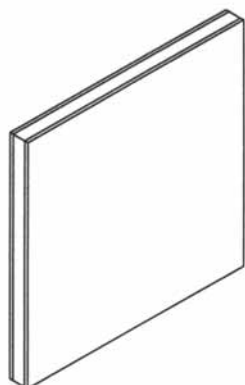


Front plate (anodized)	1	mm
Rear plate (natural)	0.3	mm
Interior corrugated plate (Al)	0.2	mm
Total thickness	5.5	mm
Weight	4.6	kg/m <sup>2</sup>
Panel size	1500 x 2500	mm

- Al material can be recycled!
- Suitable for painting and printing.

## COMPOSITE PANEL

Part N° 21.1834/0

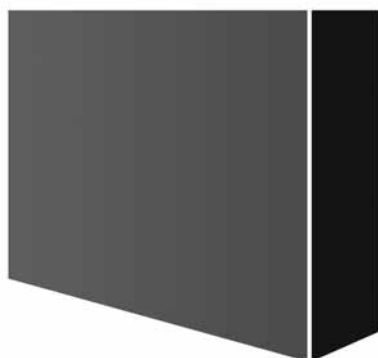


Material outside	Aluminium	(anodized)
Material inside	PE	
Total thickness	6	mm
Weight	7,3	kg/m <sup>2</sup>
Panel size	1500 x 3000	mm

- Suitable for painting and printing.

## PVC-PLATE

Part N° 21.1817/0



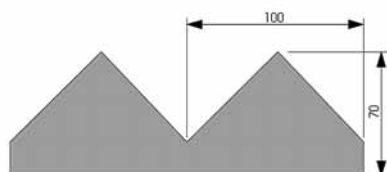
Thickness	20	mm
Colour	grey	7011 RAL
Weight	28	kg/m <sup>2</sup>
Panel size	1000 x 2000	mm



- Other colours and measurements as well as antistatic table plate upon request.

## SOUND- PROOFING SHEET

Part N° 21.1819/0



Thickness	70	mm
Coefficient of thermal conduction	0.032	W/mK
	at	0°C
Weight	28	kg/m <sup>3</sup>
Panel size	1000 x 1000	mm



- Primary noise reduction by enclosing of noise sources
- Secondary noise protection in working rooms, offices
- Other sizes on demand