

# Fire retardant wood based panels

## Complete system for ceilings and walls



### Elam -range of products:

**Elam** -products involve a range of decoratively surfaced fire retardant wall and ceiling panels for mainly public buildings. Panel surfaces is usually covered with lacquered (and stained) or waxed natural wood veneer. Other surface solutions are imitation foils, high pressure or real stone laminate or paint. Panels can be plain, perforated, slotted or grooved.

As a rule cement bonded particleboard, which is fireproof and strong, is used as core board. In locations where fire classification requirements are not applicable, conventional wood based panels as plywood, chipboard or MDF may be used for core boards.

Cement bonded particleboard consists of wood chips (30% dry weight) and portland cement (70%). No organic binders, formaldehyde or asbestos included. The boards are sanded and thickness calibrated to make them suitable for surface coating.

# Elam Oy

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All the materials as glue, veneer and lacquer are chosen to keep the fire resistance on as high level as possible.

#### Other Elam applications are:

Curved ElamForm panels, ElamTrellis, ElamInterior thin perforated decoration panels, Perfo-Linear, Linear and Mosaic grooved panels, through coloured cement- bonded particleboard Anhracite, fixing accessories and special wood profiles.

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## Dimensions, boards and surfaces

<b>Std sizes (mm):</b> Std thicknesses 12 and 16 mm. Other sizes and thicknesses on request.	<b>2600 x 1200/600/300/190</b> <b>2400 x 1200/600/300/190</b> <b>1800 x 1200/600/300/190</b>	<b>1200 x 1200/600/300/190</b> <b>600 x 600/300</b>
<b>Core boards:</b>	As a rule, strong cement bonded particleboard is used as core material, but conventional wood based panels as well, if no fire classification is required e.g. chipboard, MDF or plywood. Special "marine -boards" can be used for ships (IMO A 270, SOLAS).	
<b>Surface alternatives:</b> Unsurfaced panels:	All sizes, edge forms and perforations are available for raw panel as well as surfaced panel.	
<b>Wood veneered panels:</b> Lacquering: Staining: Wax or oil treatment:	All commercial wood species available. Low emission acrylate lacquering, TVOC emission less than <math><10 \text{ g/m}^2\text{h}</math>. Up to wish and sample of customer or up to given color code. Colorless or colored treatment.	
<b>Painted panels:</b>	Painting on special paper coated board. Balance film on back side. Colour stains according to e.g. NCS -code.	
<b>Foil surfaced panels:</b>	Wood imitation melamine and wall papers (small volumes not available).	
<b>High Pressure Laminated panels:</b>	All well-known HPL accepted.	

## Edge types and coverings of panels and acoustic boards

**Edge covering alternatives** (combine the code number after edge type number as shown below):












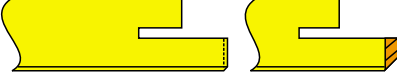
**0.** Unsurfaced edge

**a.** Wood or other imitation band

**b.** Real thin wood veneer, lacquered as surface

**c.** 2,0 mm thick wood veneer, lacquered as surface

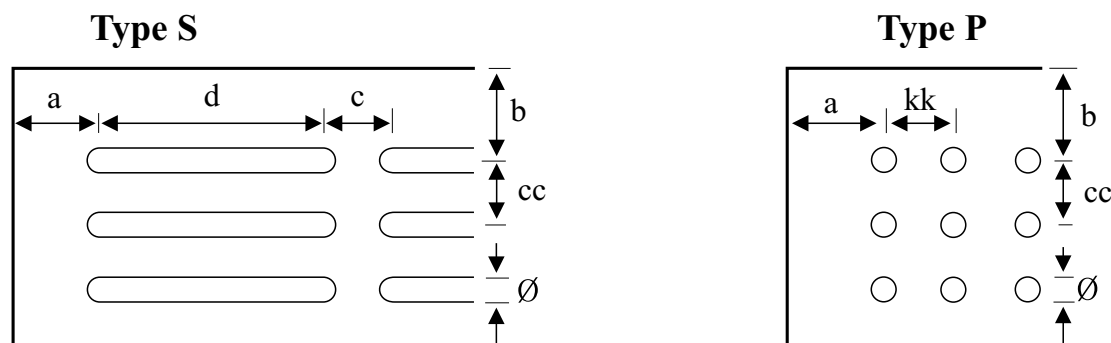
**d.** 10 mm thick wood batten under surface veneer (edge type 8)

			<b>Relevant edge covering alternatives:</b>
		<b>Type 1:</b> Straight, machined edge with "pencil rounded arris".	<b>1/0, 1/a and 1/b</b>
		<b>Type 2:</b> Bevelled edge (abt. 2 mm), cement grey bevelled section with the edge 2/0.	<b>2/0 and 2/c</b>
		<b>Type 3:</b> Grooved for concealed fixing with "pencil rounded arris".	<b>3/0, 3/a and 3/b</b>
		<b>Type 4:</b> Grooved for concealed fixing, bevelled edge (abt. 2 mm), cement grey bevelled section with the edge 4/0.	<b>4/0 and 4/c</b>
		<b>Type 5:</b> Rounded edge surfaced with 2,0 mm lacquered wood veneer.	<b>5/c</b>
		<b>Type 6:</b> As type 3, but no gap between panels.	<b>6/0, 6/a, 6/b and 6/c</b>
		<b>Type 7:</b> Removable ceiling panel. Recommended for size 600 * 600 mm only.	<b>7/0, 7/a and 7/b</b>
		<b>Type 8:</b> Removable ceiling panel, thick rebated wood profile under veneer.	<b>8/0 and 8/d</b>
		<b>Type 9:</b> Removable wall panel. See page 11 in more detail.	<b>9/0, 9/a, 9/b and 9/c</b>

## Acoustic perforations:

The next models are standard types, others available on request. Type S means "slotted" and P perforated (round hole). The back side of the panel can be coated with black or white fabric.

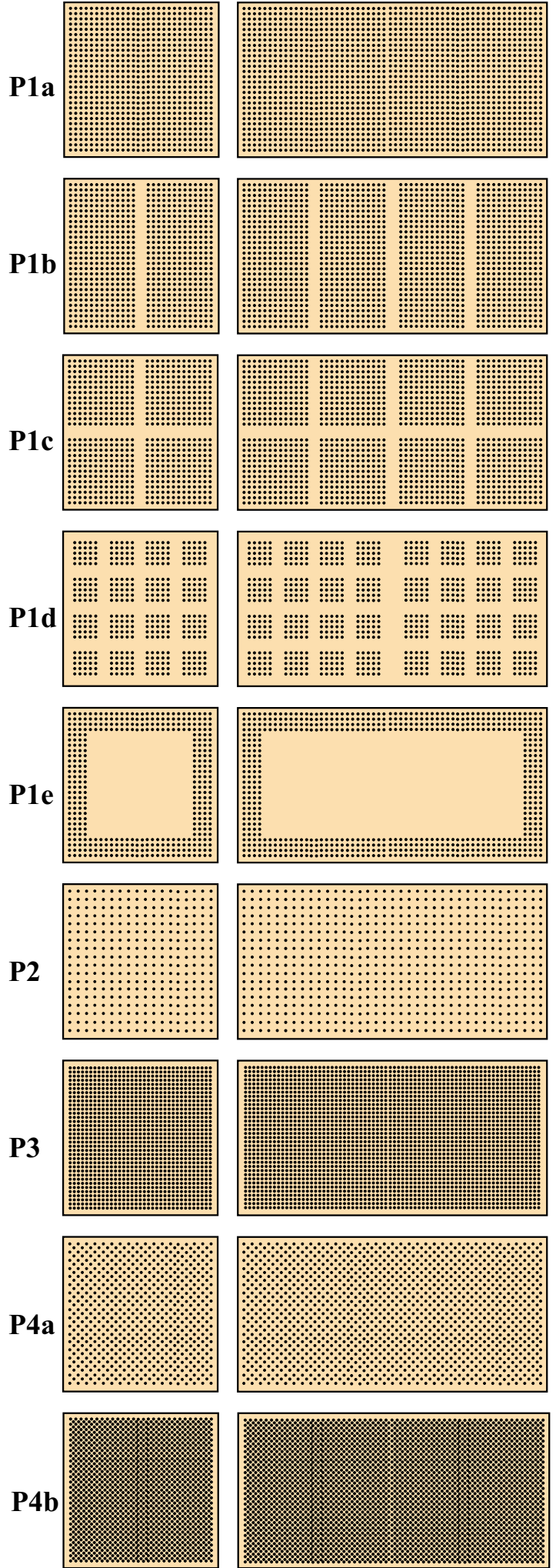
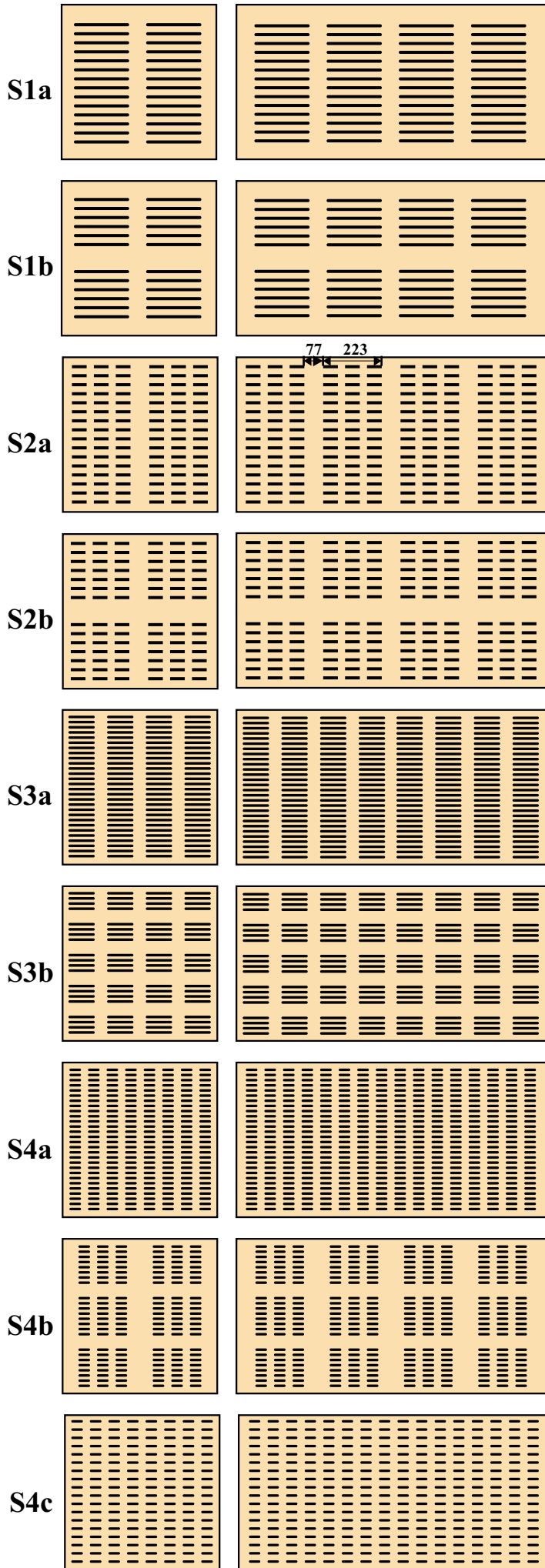
Std panel sizes are 600 x 600 ja 1200 x 600 mm:



Type	Panel size mm	cc mm	Hole diameter Ø				a mm	b mm	c mm	d mm	Holes/row pcs	Rows pcs	Holes pcs
			Hole area %										
			Ø 6 %	Ø 8 %	Ø 10,5 %	Ø 12 %							
<b>S1a</b>	1200 x 600	35	9,6	<b>13,0</b>	17,2	19,7	79	72,5	78	202	14	4	56
	600 x 600	35	9,6	<b>13,0</b>	17,2	19,7	59	72,5	78	202	14	2	28
<b>S1b</b>	1200 x 600	35	8,3	<b>11,1</b>	14,7	16,9	79	72,5	78	202	12	4	48
	600 x 600	35	8,3	<b>11,1</b>	14,7	16,9	59	72,5	78	202	12	2	24
<b>S2a</b>	1200 x 600	35	9,2	<b>12,6</b>	17,1	20,0	38,5	37,5	32	53	16	12	192
	600 x 600	35	9,2	<b>12,6</b>	17,1	20,0	38,5	37,5	32	53	16	6	96
<b>S2b</b>	1200 x 600	35	8,1	<b>11,1</b>	15,0	17,5	38,5	37,5	32	53	14	12	168
	600 x 600	35	8,1	<b>11,1</b>	15,0	17,5	38,5	37,5	32	53	14	6	84
<b>S3a</b>	1200 x 600	20	<b>17,7</b>	24,0	32,1		30	30	60	90	28	8	224
	600 x 600	20	<b>17,7</b>	24,0	32,1		30	30	60	90	28	4	112
<b>S3b</b>	1200 x 600	20	<b>12,6</b>	17,1	22,9	26,5	30	30	60	90	20	8	160
	600 x 600	20	<b>12,6</b>	17,1	22,9	26,5	30	30	60	90	20	4	80
<b>S4a</b>	1200 x 600	20	<b>16,7</b>	23,0	31,5	36,9	40	30	32	40	28	16	448
	600 x 600	20	<b>16,7</b>	23,0	31,5	36,9	28	30	32	40	28	8	224
<b>S4b</b>	1200 x 600	20	<b>10,7</b>	14,8	20,3	23,7	76	30	32	40	24	12	288
	600 x 600	20	<b>10,7</b>	14,8	20,3	23,7	64	30	32	40	24	6	144
<b>S4c</b>	1200 x 600	32	<b>10,7</b>	14,8	20,3	23,7	40	28	32	40	18	16	288
	600 x 600	32	<b>10,7</b>	14,8	20,3	23,7	28	28	32	40	18	8	144
<b>P1a</b>	1200 x 600	20	6,4	<b>11,3</b>	19,5	25,5	30	30	20		28	58	1624
	600 x 600	20	6,2	<b>10,9</b>	18,8	24,6	30	30	20		28	28	784
<b>P1b</b>	1200 x 600	20	5,7	<b>10,2</b>	17,5	22,9	30	30	20		28	52	1456
	600 x 600	20	5,7	<b>10,2</b>	17,5	22,9	30	30	20		28	26	728
<b>P1c</b>	1200 x 600	20	5,3	<b>9,4</b>	16,3	21,2	30	30	20		26	52	1352
	600 x 600	20	5,3	<b>9,4</b>	16,3	21,2	30	30	20		26	26	676
<b>P1d</b>	1200 x 600	20	3,1	<b>5,6</b>	9,6	12,6	50	50	20		20	40	800
	600 x 600	20	3,1	<b>5,6</b>	9,6	12,6	50	50	20		20	20	400
<b>P1e</b>	1200 x 600	20	2,4	<b>4,3</b>	7,4	9,7	30	30	20		28		616
	600 x 600	20	3,0	<b>5,4</b>	9,2	12,1	30	30	20		28		384
<b>P2</b>	1200 x 600	32	2,6	<b>4,6</b>	8,0	10,5	24	28	32		18	37	666
	600 x 600	32	2,5	<b>4,5</b>	7,8	10,2	28	28	32		18	18	324
<b>P3</b>	1200 x 600	16	9,9	<b>17,6</b>	30,3		32	28	16		35	72	2520
	600 x 600	16	9,6	<b>17,1</b>	29,4		28	28	16		35	35	1225
<b>P4a</b>	1200 x 600	16/32	5,0	<b>8,9</b>	15,4	20,1	24	28	16/32				1278
	600 x 600	16/32	4,8	<b>8,6</b>	14,7	19,2	28	28	16/32				613
<b>P4b</b>	1200 x 600	10/20	12,4	<b>22,1</b>			30	30	10/20				3163
	600 x 600	10/20	11,9	<b>21,1</b>			30	30	10/20				1513

**Bold** = std diameter

**Standard types:**



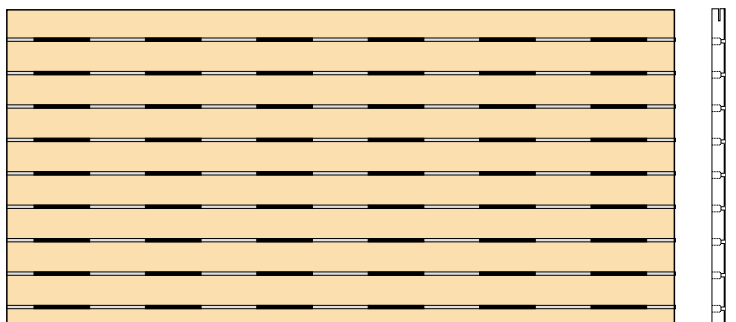
## Linear-, Perfo-Linear- and Mosaic- panels:



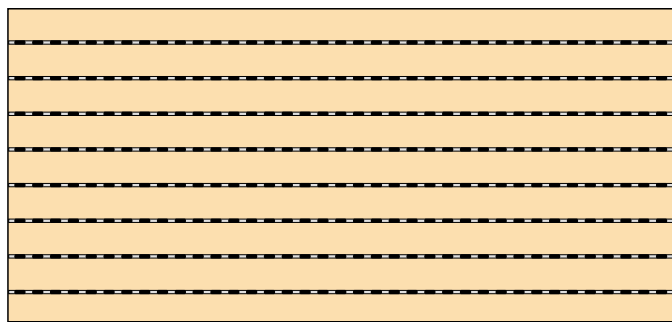
"Linear", "Perfo-Linear" and "Mosaic" are panels made of MDF- or cement bonded particleboard with grooved surface.

Basic idea is to give the designer "free hands" when choosing groove distance and panel size. Breadth of groove is 3, 6 (or 8) mm. The surface can be wood veneered, painted or laminated with white

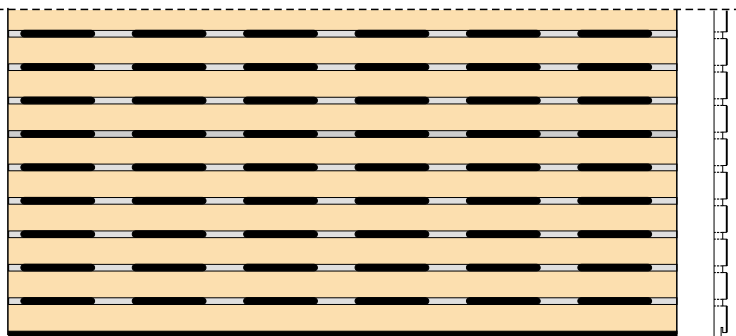




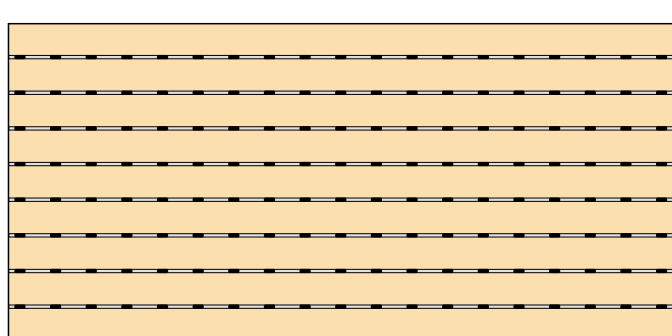
Perfo-Lineari D3 K30 S50/50



Perfo-Lineari D3 K32 P16



Perfo-Lineari D6 K30 S60/40



Perfo-Lineari D3 K32 P32

**Panel sizes e.g.:**

- 600 x 600/300 mm
- 1200 x 600/300 mm
- 1800 x 600/300 mm
- 2400 x 600/300 mm
- 2600 x 600/300 mm

breadth with round perforations **413 and 381 mm**

**Stripe share e.g.:**

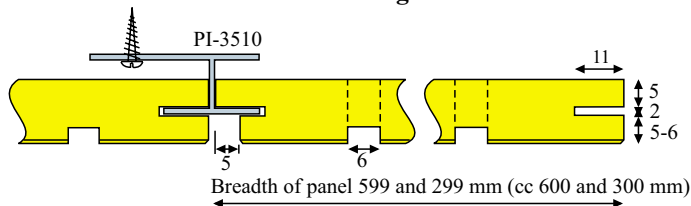
- 15 mm (in the edge 20 mm if edge form 3-6)
- 20 mm
- 30 mm
- 40 mm
- 50 mm
- 60 mm
- 100 mm
- 300 mm
- or special

**Linear- and Perfo-Linear joint principles**

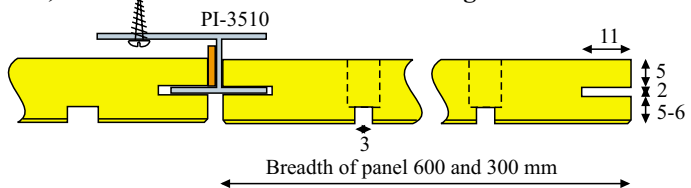
Parallel joint to stripes of Linear, Perfo-Linear and Mosaic will be made with PI-3510 -profile, which is painted to colour of core board making the panelling to look even and continuous. Crossing joint can be made with invisible tongue of plywood or painted PI-profile.

**Joint parallel to stripes**

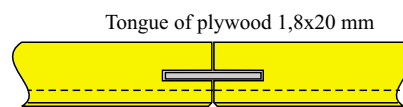
**Linear and Perfo-Lineari with 6 mm groove. Fixed installation:**



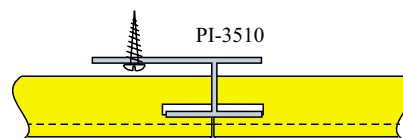
**Linear, Mosaic or Perfo-Linear with 3 mm groove. Fixed installation:**



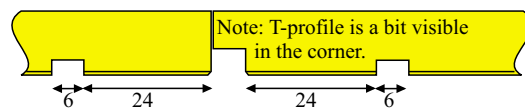
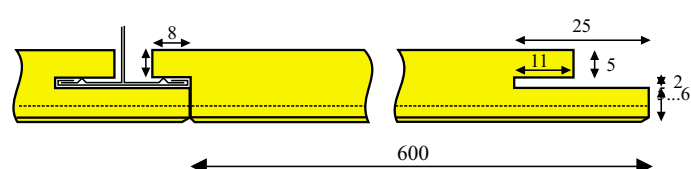
**Joints perpendicular to stripes**



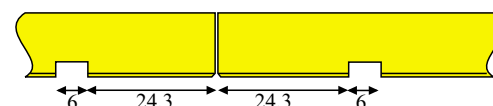
**Or**



**Demountable ceiling panel 600x600 (edge type 7):**

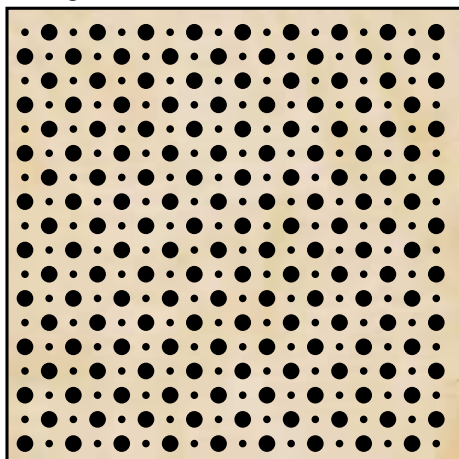


**Or** (e.g. cc30 nominal share)

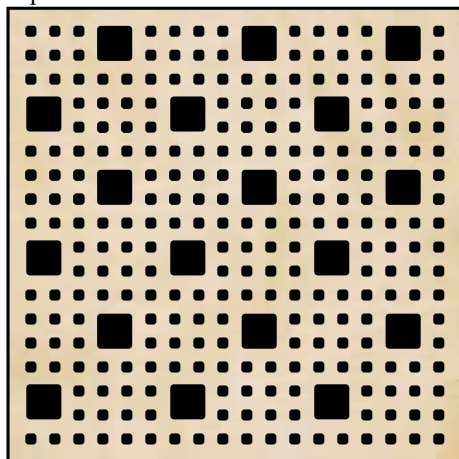


**Special perforations** can be made according to clients wishes.

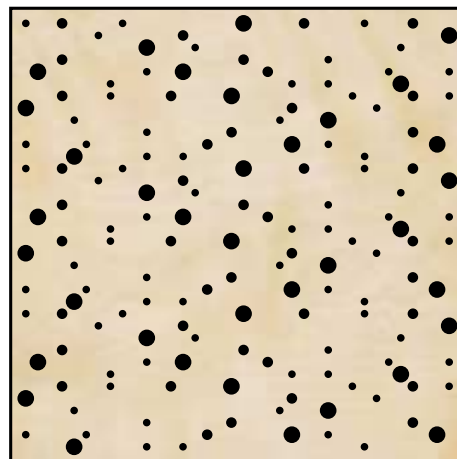
P2 Big 20/8



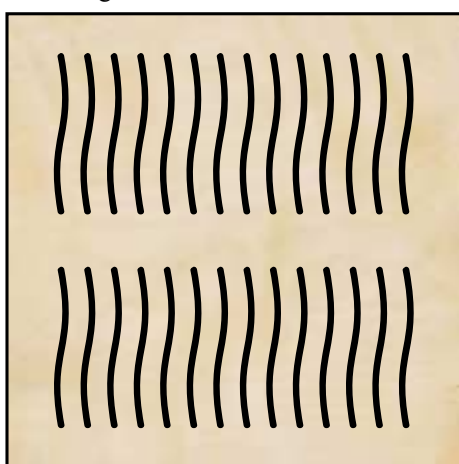
Square 12x12 kk 32



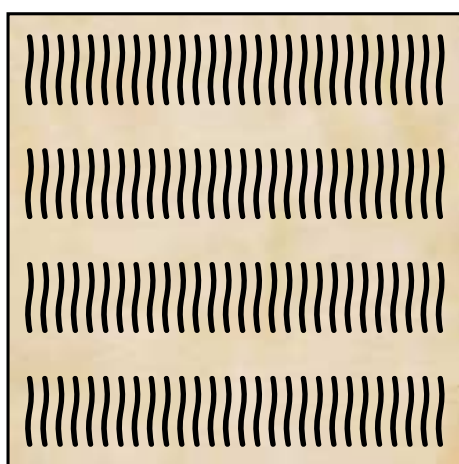
Random k 16 8/12/18



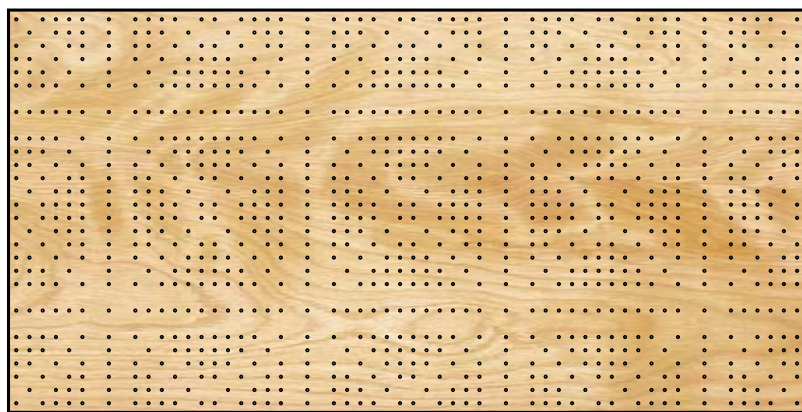
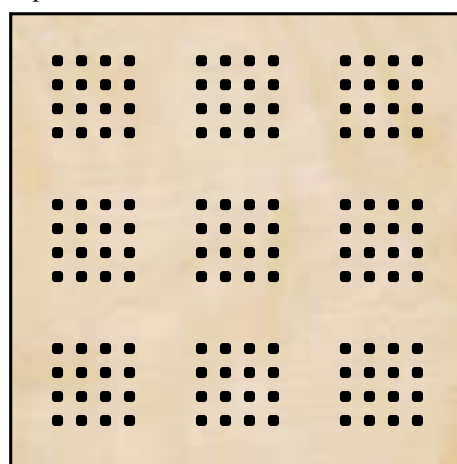
Wave Big



Wave Small

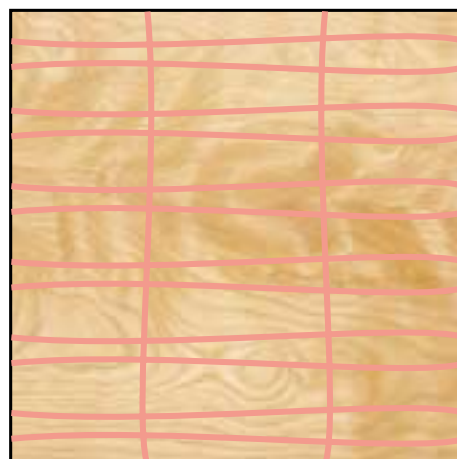
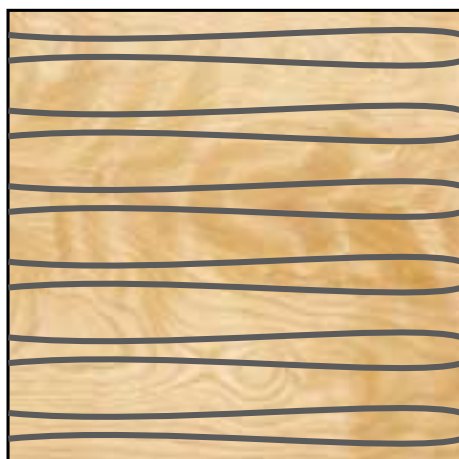
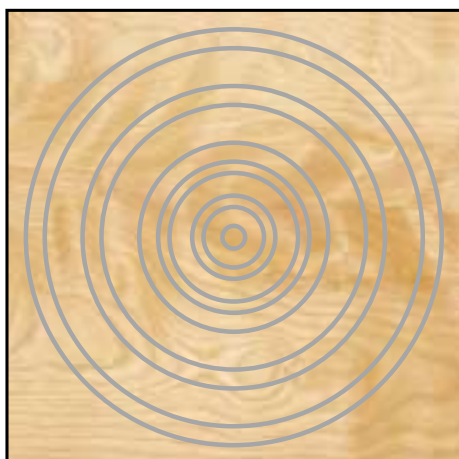


Square 12x12 kk 32



"Sun"

**Special striping** can be made up to wishes of the client. Board material e.g. through-colored MDF.

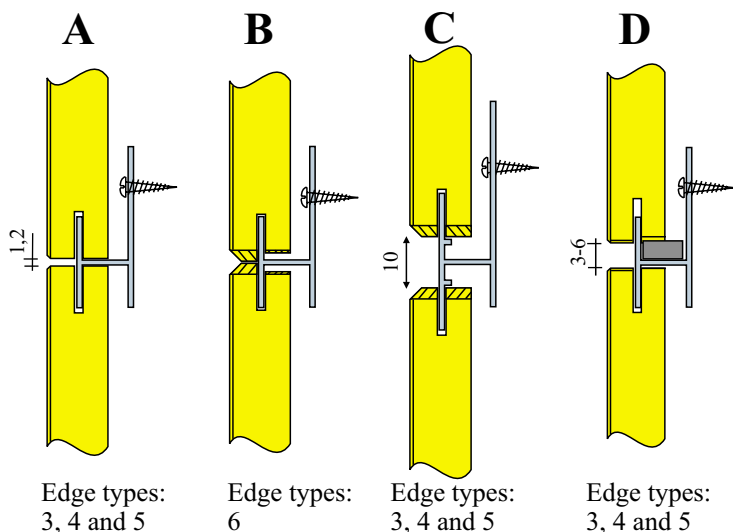




# Installation of Elam-panels

## Installation with PI-profiles:

Joint types:



Edge types: 3, 4 and 5

Edge types: 6

Edge types: 3, 4 and 5

Edge types: 3, 4 and 5

### Type A:

Concealed installation with PI-3510 profile. 1,2 mm open gap between panels. Unpainted profile may reflect in joint.

### Type B:

Butt joint. No gap or very small gap between panels. Unpainted profile may reflect in joint. If the height of the wall lining is over 3 m, special solution is required to prevent situation that the whole weight of the wall lining lays on the lowest profile line. See the page 12 in more detail.

### Type C:

**10 mm open joint**, fixing with aluminium profile PI-4510, which can be painted, anodised, covered with wood imitation or lacquered veneer.

### Type D:

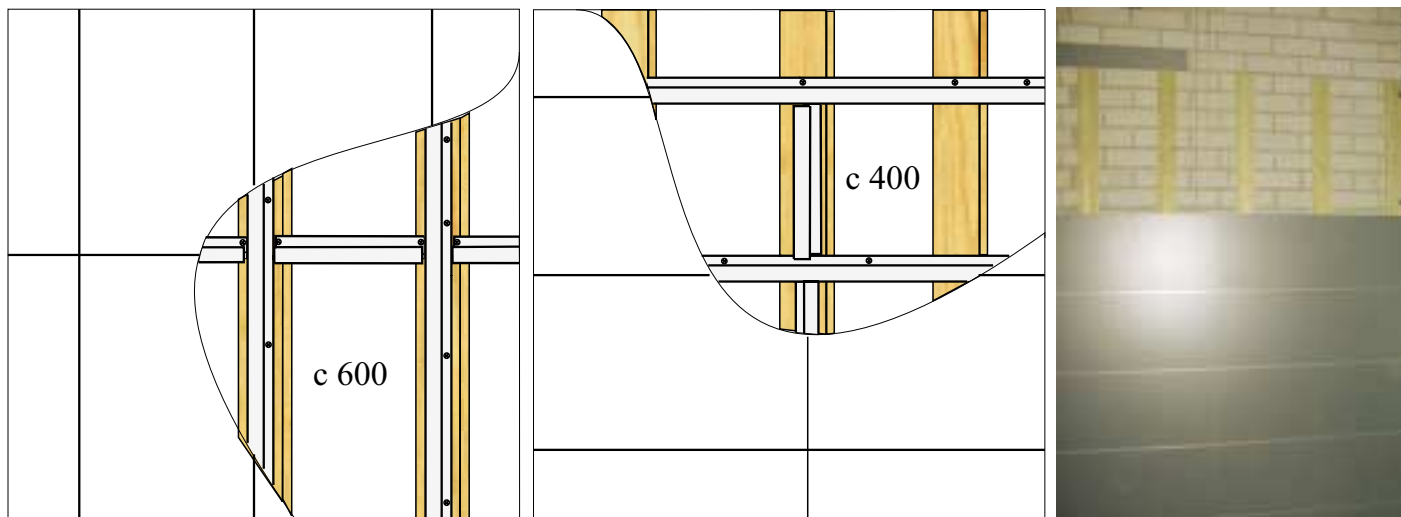
**3-6 mm open joint**, fixing with aluminium profile PI-3510, which can be painted, covered with wood imitation or lacquered veneer. The desired gap between panels can be achieved by putting a filling piece of e.g. mdf- or plywood inside the profile as shown in the drawing.

Wood veneered panels are for indoor use only. Before installation check that the room is dry and ventilated and the temperature preferably over 18 C °. The RH of the air preferably between 30-60 %, absolutely not over 80%.

Because the colour and figure of natural wood can vary, try to avoid to install divergent panels on the same wall.

PI-profiles are screwed to e.g. wooden battens. Screw distance between 400-600 mm. If shorter panel dimension is over 600 mm, additional support is needed to prevent bending of the panel.

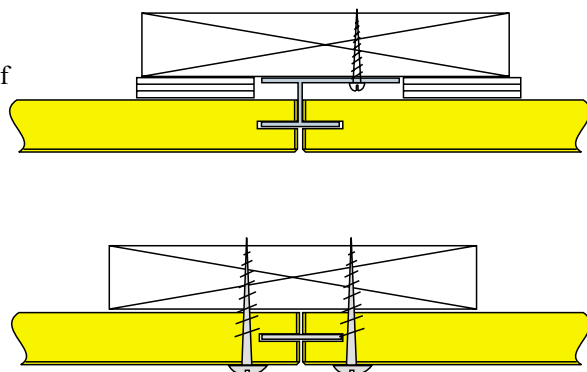
Wooden battens behind the panels are normally used on the concrete or brick wall for easier installation and straightening the construction. On the well made plasterboard wall with steel frame the horizontal fixing profiles can be screwed directly to frames through plasterboard.



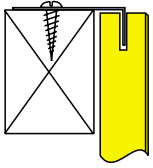
In sports and similar halls where higher strength often is needed, it is necessary to use extra support between the panel edge and the batten if concealed joint with PI-profiles is absolutely desired. Additional strength is reached by using 16 mm panel thickness as well. Dense perforation, Perfo-Linear and Linear are not suitable in lower parts of sports wall linings.

### Visible fixing:

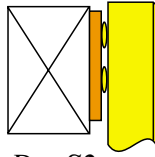
For example by means of hat profile or different screws to wooden battens or steel frame directly. If necessary 1,8 mm loose plywood tongue can be used in the edge groove to prevent possible stepping of the joint.



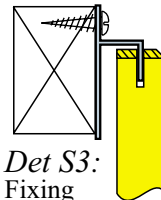
**Upper end of wall paneling:**



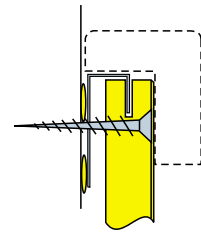
*Det S1:*  
EL-30 profile



*Det S2:*  
Gluing with  
polyurethane mastic.

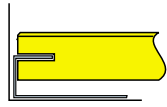


*Det S3:*  
Fixing  
with modified  
PI-3510 profile  
(can be sawn at work site).

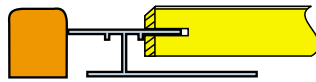


*Det S4:*  
Fixing a starting profile with  
screw or polyurethane mastic.

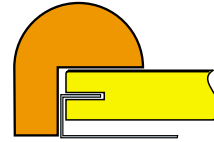
**Starting and ending wall paneling, examples:**



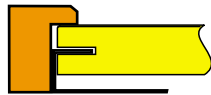
*Det S6*



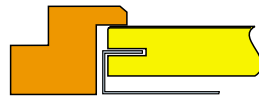
*Det S7*



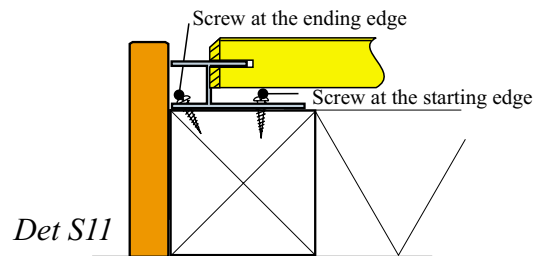
*Det S8*



*Det S9*

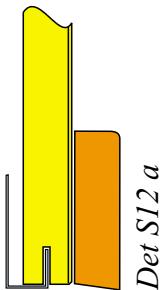


*Det S10*

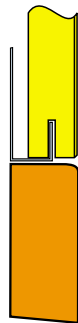


*Det S11*

**Junction to floor:**



*Det S12 a*



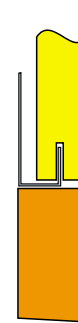
*Det S12 b*



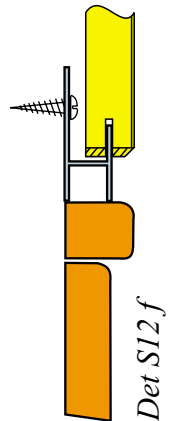
*Det S12 c*



*Det S12 d*

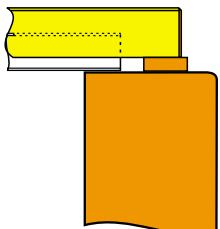


*Det S12 e*

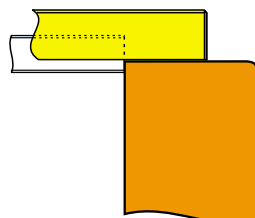


*Det S12 f*

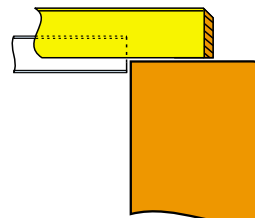
**Junction to door frame:**



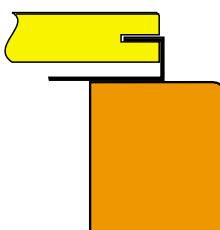
*Det S13 a*



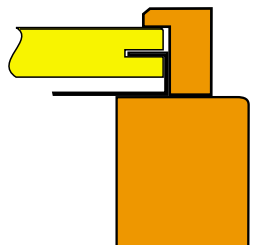
*Det S13 b*



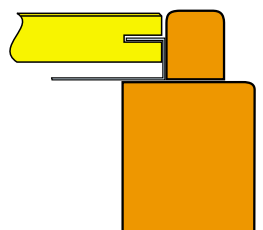
*Det S13 c*



*Det S13 d*

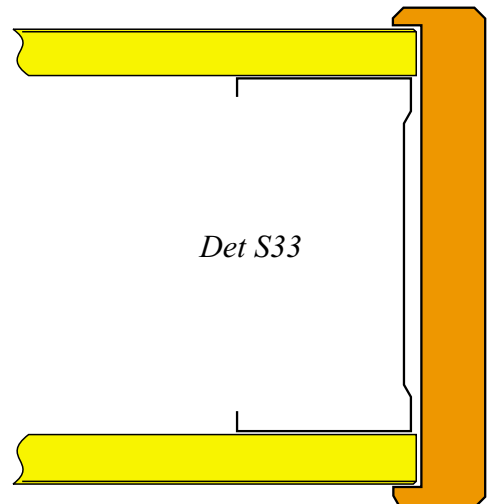


*Det S13 e*



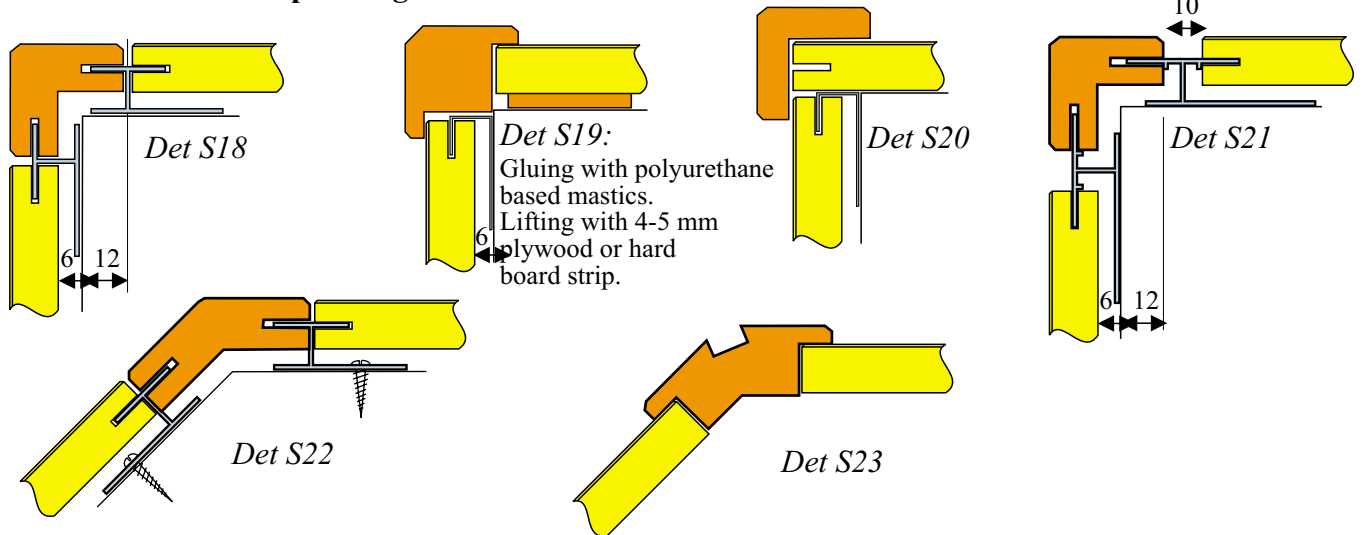
*Det S13 f*

**The use of wall cover board:**

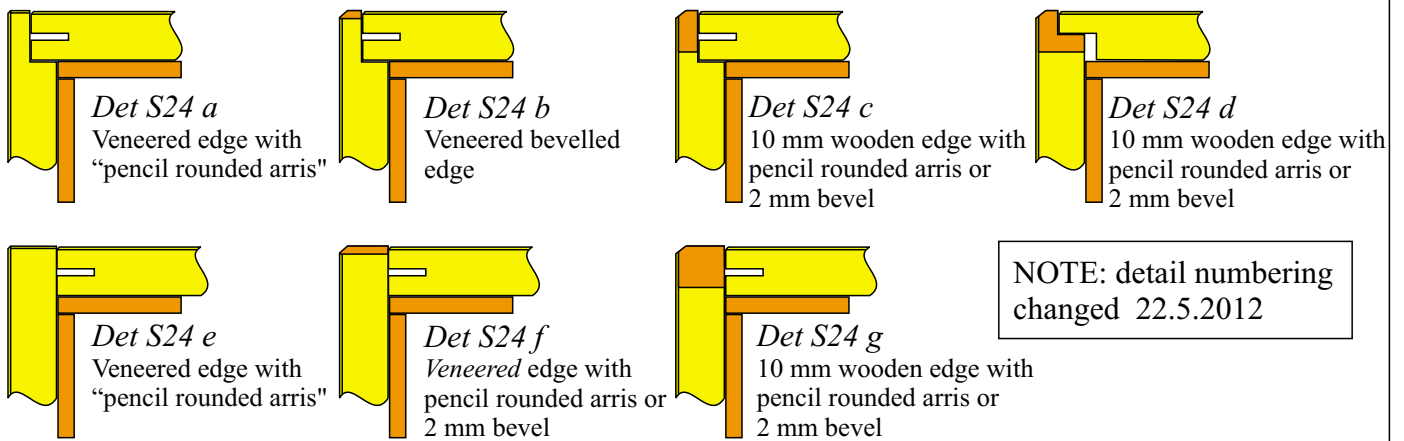


*Det S33*

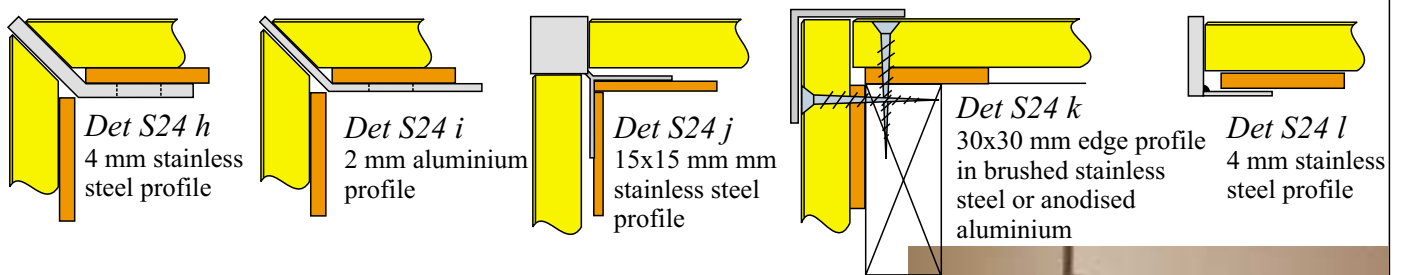
**Outer corners of wall paneling**



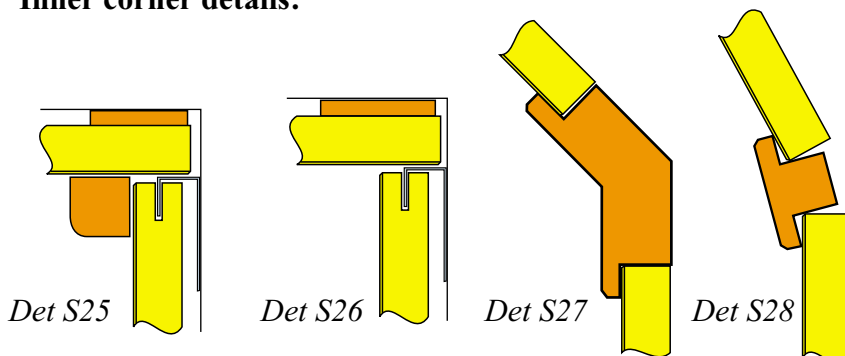
**Outer corners without wooden profiles (gluing):**



**Outer corners with metal profiles:**

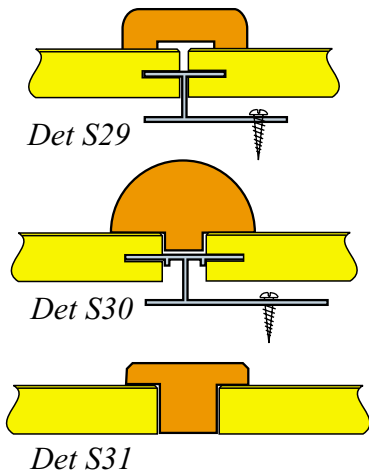


**Inner corner details:**

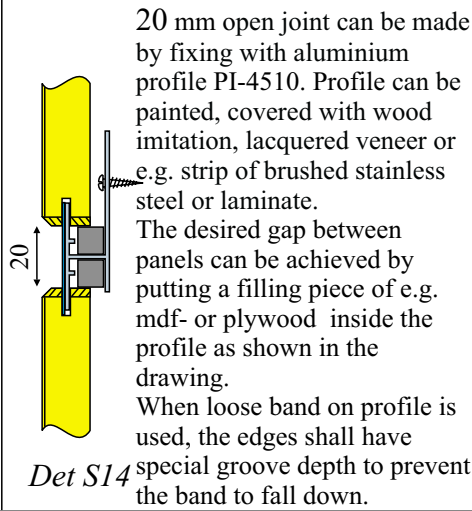


**Other solutions:**

**Joints with wood profiles:**

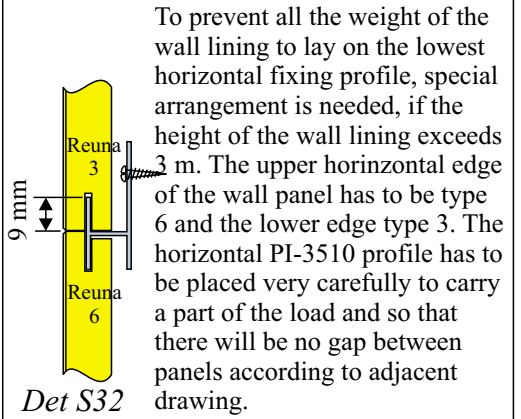


**20 mm open joint:**



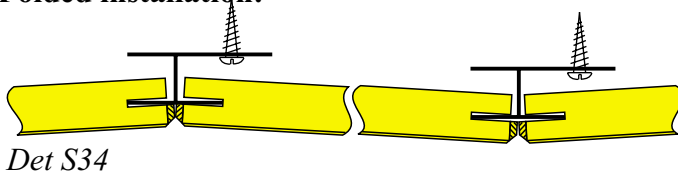
20 mm open joint can be made by fixing with aluminium profile PI-4510. Profile can be painted, covered with wood imitation, lacquered veneer or e.g. strip of brushed stainless steel or laminate. The desired gap between panels can be achieved by putting a filling piece of e.g. mdf- or plywood inside the profile as shown in the drawing. When loose band on profile is used, the edges shall have special groove depth to prevent the band to fall down.

**Edge for 6 and high wall linings:**



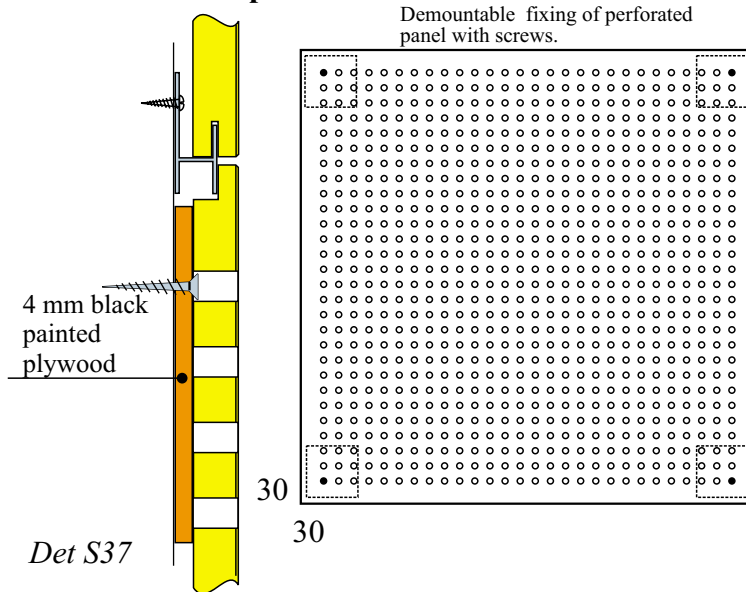
To prevent all the weight of the wall lining to lay on the lowest horizontal fixing profile, special arrangement is needed, if the height of the wall lining exceeds 3 m. The upper horizontal edge of the wall panel has to be type 6 and the lower edge type 3. The horizontal PI-3510 profile has to be placed very carefully to carry a part of the load and so that there will be no gap between panels according to adjacent drawing.

**Folded installation:**



PI-profiles allows fold of about 6°. By moulding the profile it is possible to get greater angles. 12 mm thick panel can be bent to radius 10-12 m at the work site.

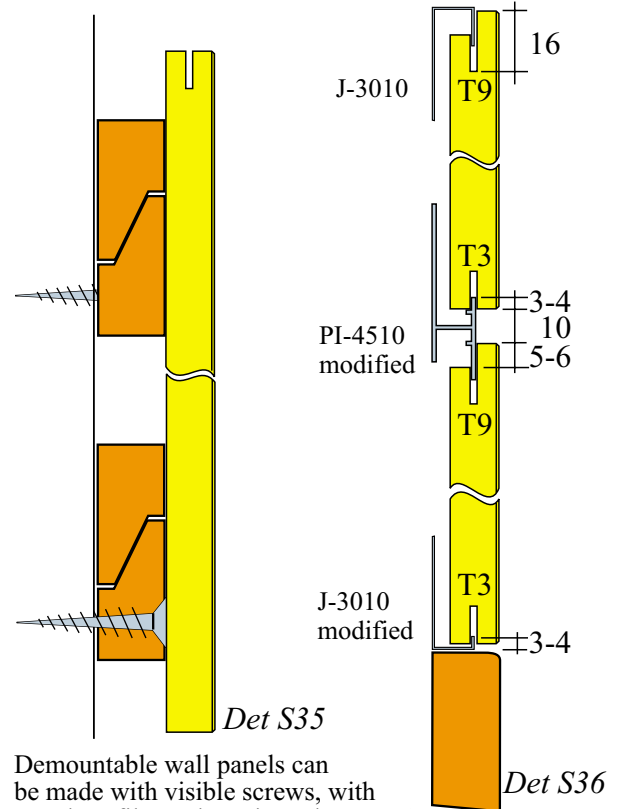
**Demountable wall panel:**



Demountable fixing of perforated panel with screws.

Demountable perforated panel can be installed between fixed panels with screws as shown above.

At the corners of the panel 4mm black painted plywood plates are glued. Acoustic fabric (if any) is cut off in this place to ensure proper gluing. Fixing screws with small head to fit into hole. The screw can be black in color.

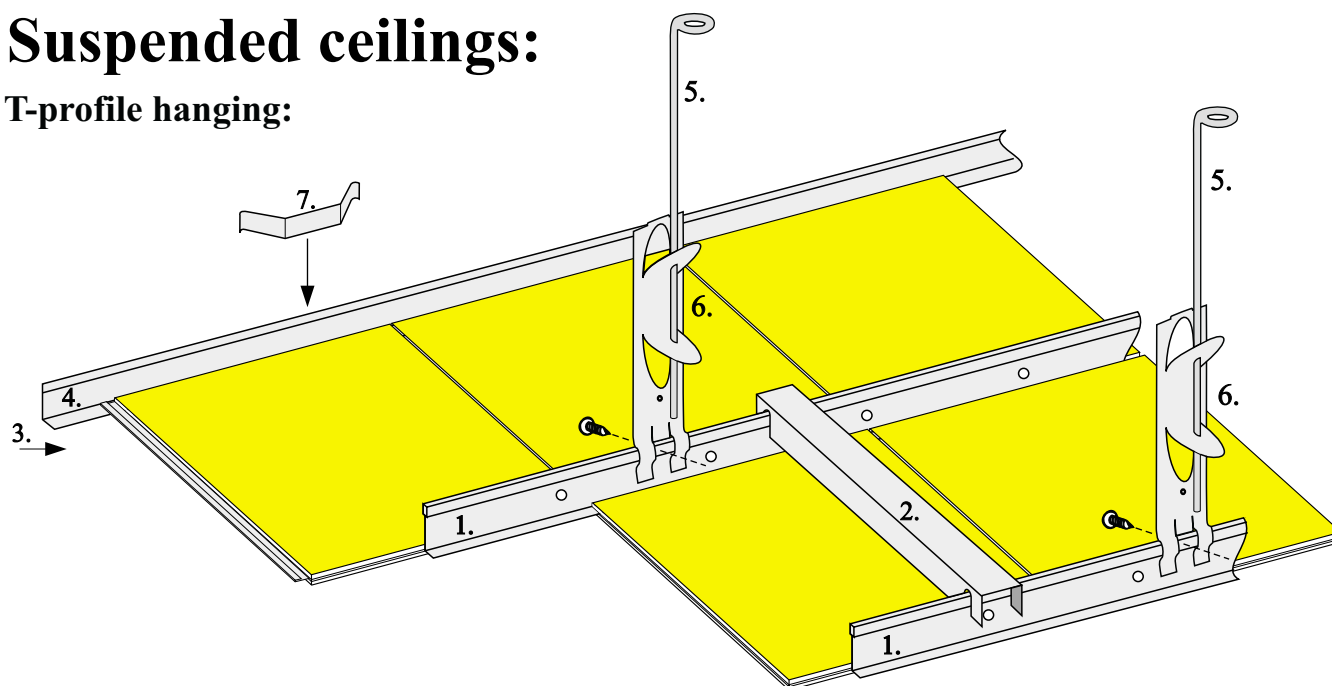


Demountable wall panels can be made with visible screws, with wood profiles or by using edge type 9 of the panel and modifying the aluminium profiles as shown in the drawing above. Note: Installation requires highest carefulness.



# Suspended ceilings:

## T-profile hanging:



### Accessories and their consumption:

		Fixing distance (mm)
1.	T-profile, galvanized or stove enamel steel, L 3000 mm	600/590/290/190
2.	Distance bar, galvanized steel, L 600 and 1200 mm	1200... 1300
3.	Joint tongue, galvanized steel	
4a).	L- wall edge trim, stove enamel steel, optional NCS-colours.	
4b).	Double L- wall edge trim, stove enamel steel, optional NCS-colours.	
4c).	Wooden quadrant edge trim.	
5.	Wire hanger with loop. L 150 to 2500 mm.	
6.	Adjustable clip TJ-200.	1200
7.	Wall clip (if necessary) DCC-8.	

### Consumption of accessories in average:

Panel size (mm):		600 x 600	1200 x 600	2590 x 590	2590 x 290	2590 x 190	1190 x 1190
T-profile	m/m2	1,7	1,7	1,7	3,5	5,3	1,7
Distance bar	pcs/m2	1,4	1,4	1,4	1,4	1,4	
Joint tongue	pcs/m2	2,8	1,4	0,7			2,8
Edge trim	m/m2	0,5...3	0,5...3	0,5...3	0,5...3	0,5...3	0,5...3
Wire hanger	pcs/m2	1,4	1,4	1,4	2,8	4,4	1,4
Adjustable clip	pcs/m2	1,4	1,4	1,4	2,8	4,4	1,4

## Installation:

Elam -panels can be used as removable or solid suspended ceilings by using conventional suspension system.

### Solid installation:

Solid ceiling can be hanged with concealed T-profiles by grooves of panel edge as shown in picture above. Profiles are suspended to beams or similar. Under 600 mm broad panels require no distance bars. PI-profiles can be used as well for fixed installation.

### Removable installation:

Access to cavity can be met with specially formed opposite edges of the panel (edge type 7). Perpendicular edges are without profiles.

The recommended panel size 600 x 600 mm can have the grain direction parallel or across the T-profile.

The installation can be started from the middle of the ceiling or from the edge. Wall connection profiles are fixed with screws c 400 mm.

Hangers for T-profile fixed to ceiling c 750-1200 mm, next to wall 300 mm from the end of profile.

The line of panels are mounted on the profiles which are bound together with distance bars. It's possible to glide the whole panel line on the T-profiles.

Minimum free height above panels is abt. 100 mm to ensure access to cavity.

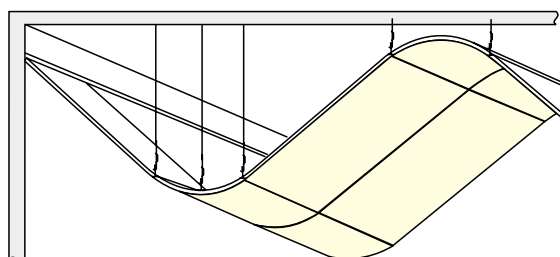
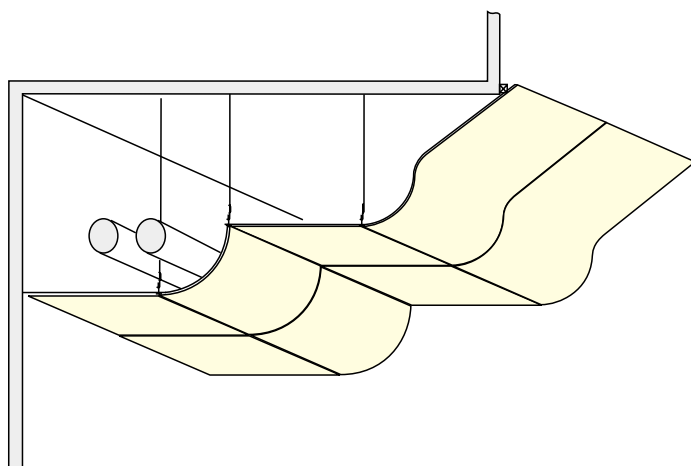
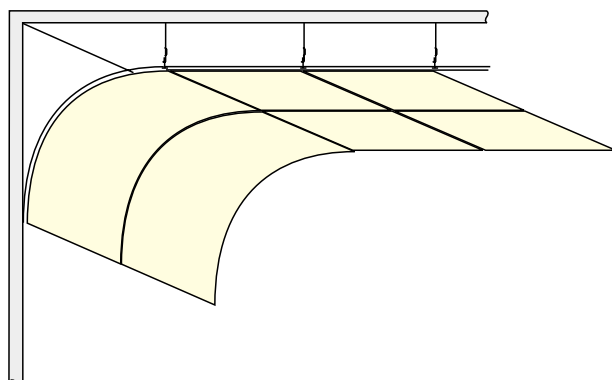
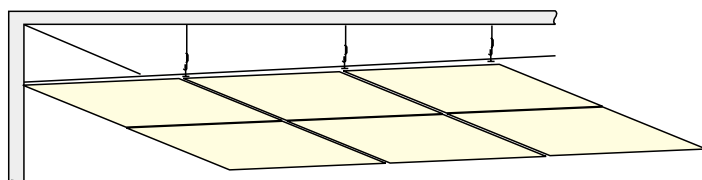
If the panels are made of cement bonded particleboard, the weight of construction is abt. 15..17 kg/m<sup>2</sup>.

It is possible to install std light fittings on the T-profiles as well.

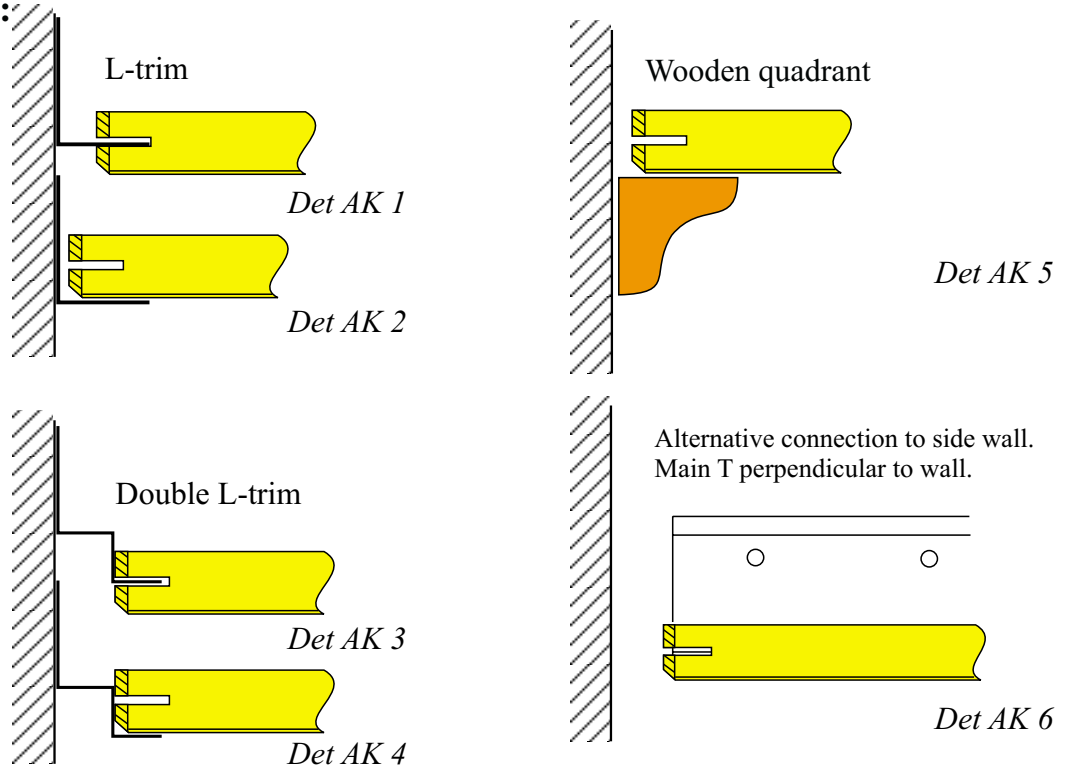


By combining perforated and plain and eventually arched panels, it is possible to provide many decorative and visual effects.

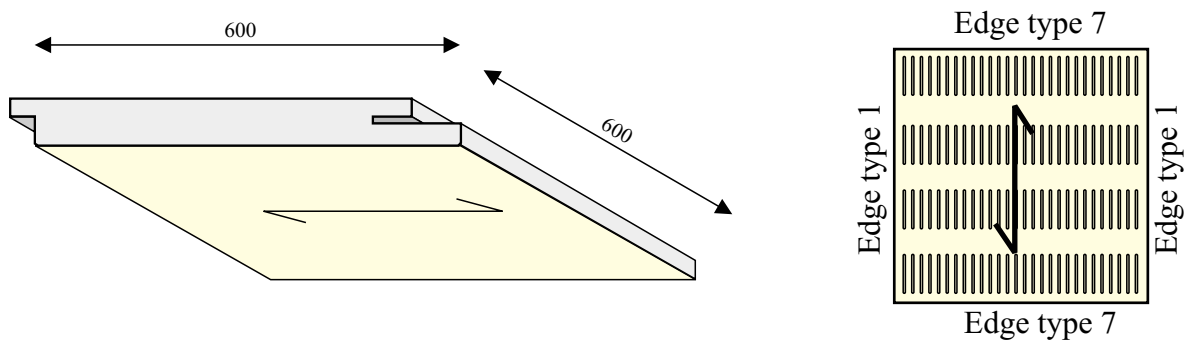
Examples of some ceiling forms:



**Wall connections:**

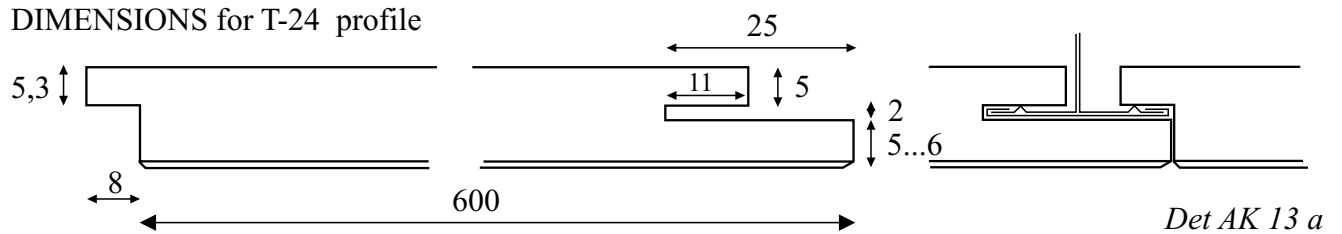


**Demountable ceiling panel (edge type 7):**

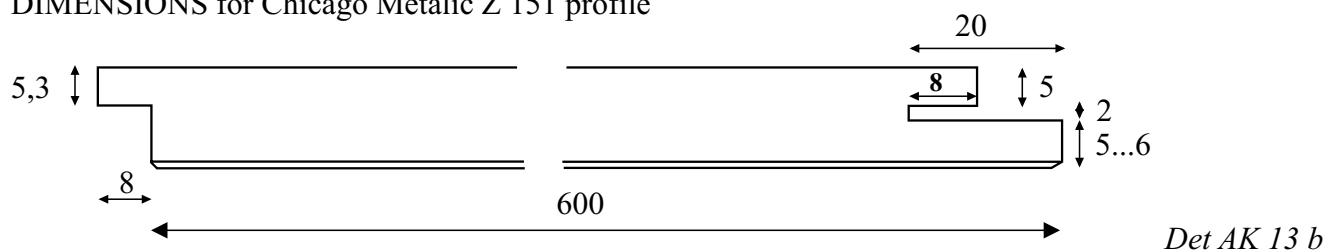


The order of wood grain direction to slots and edge type 7.  
Panel size 600 x 600 or smaller only.

**DIMENSIONS for T-24 profile**

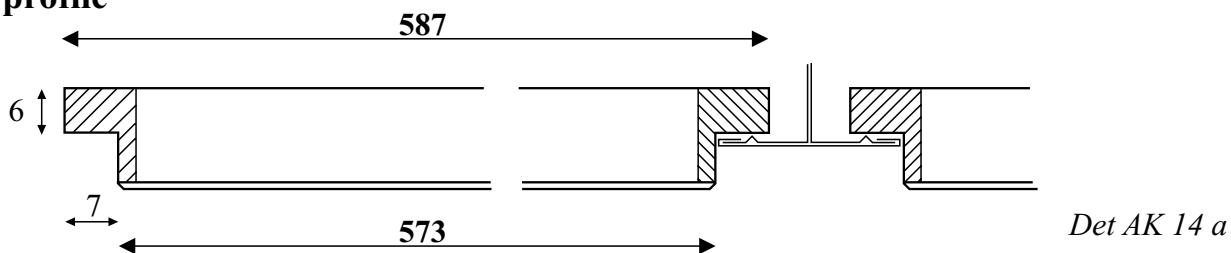


**DIMENSIONS for Chicago Metallic Z 151 profile**

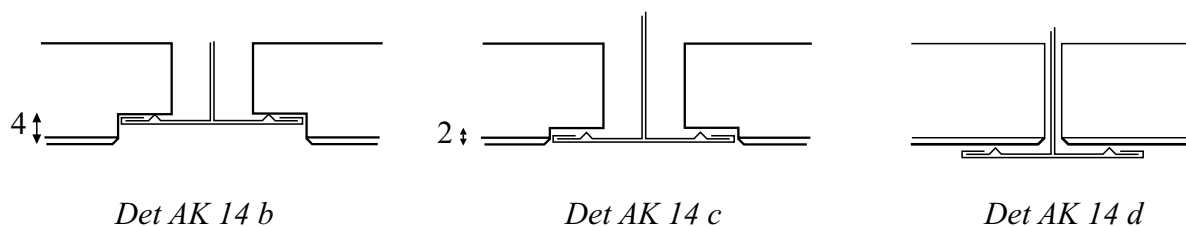


**Demountable ceiling panel with visible profile:**

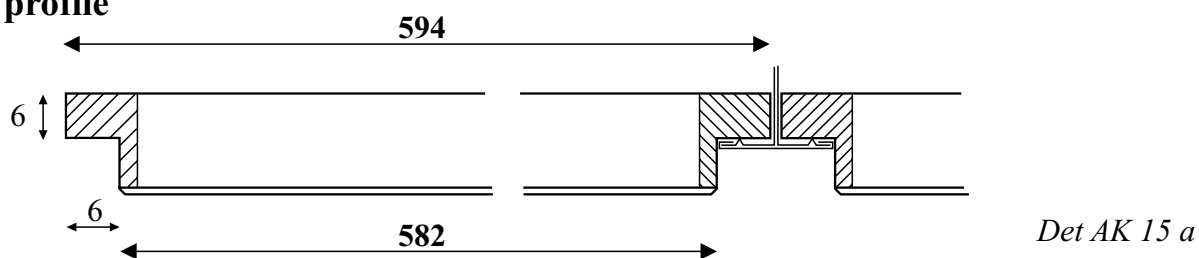
**T-24 profile**



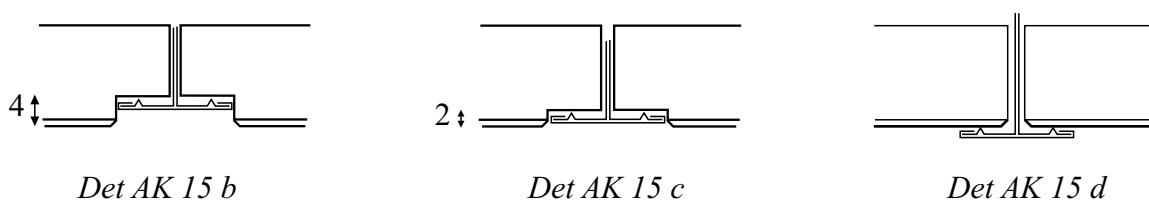
Dimensions without wooden edge:



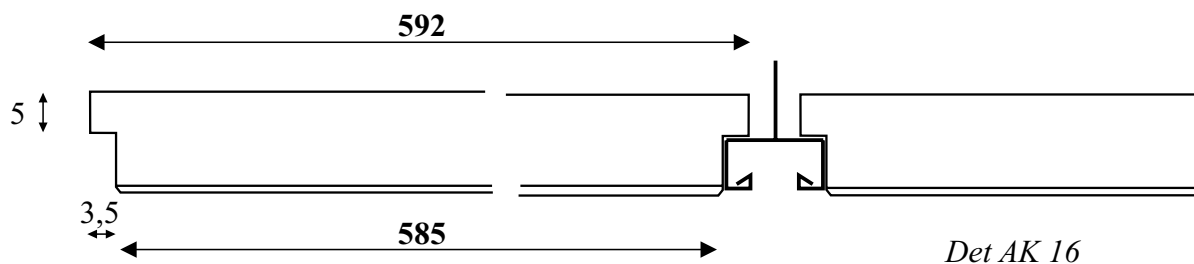
**T-15 profile**



Dimensions without wooden edge:



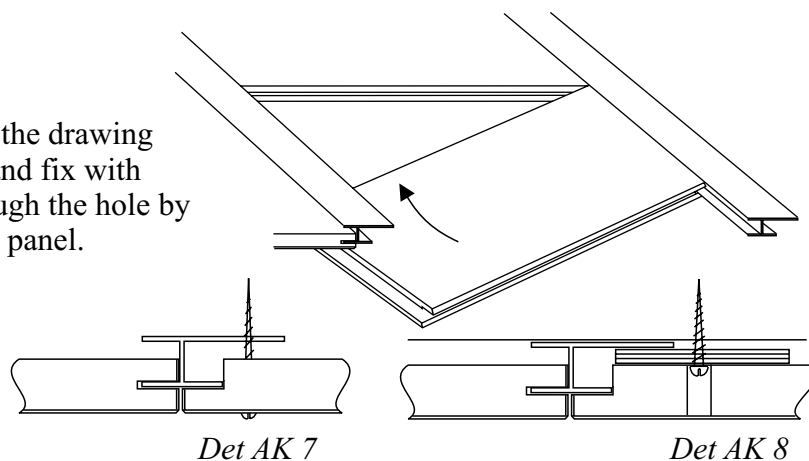
**Fineline or Chicago 3500 profile**





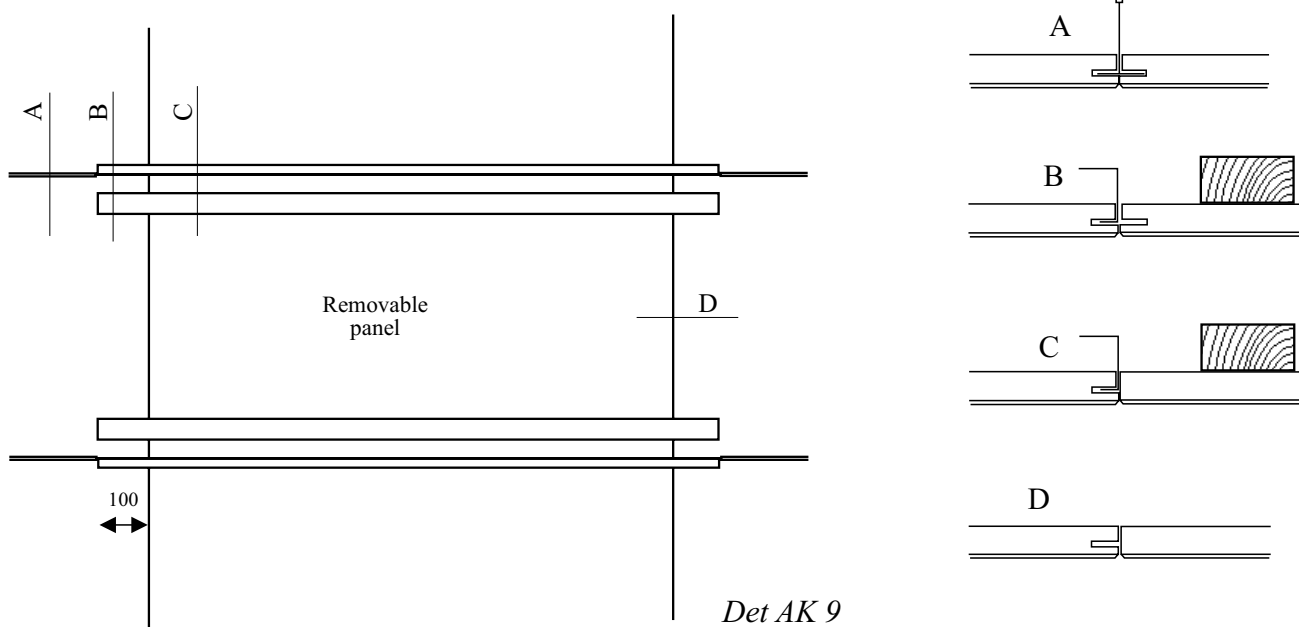
**Removable inspection panel:**

Inspection panels can be done according to the drawing by sawing the other lap off from one edge and fix with screws. Perforated panels can be fixed through the hole by gluing a plywood list on the rear side of the panel.



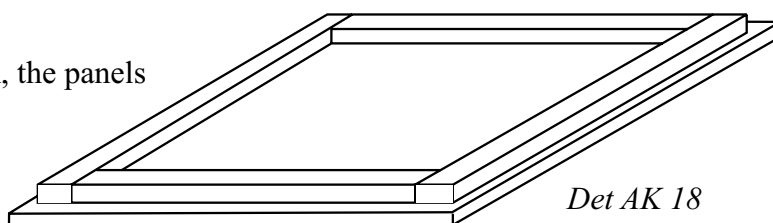
**Removable inspection panel with wood battens:**

T-profile will be cut 100 mm before the edge of the removable panel, and it will be replaced with U-profile. The wooden hanging battens are ready-fixed to the back side of the removable panel.

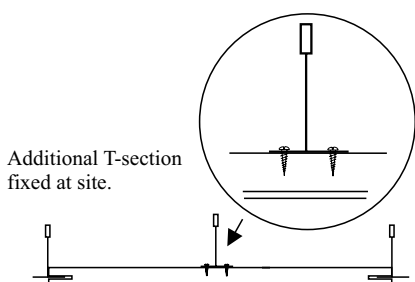


**Over-size panels:**

If the hanging distance exceeds 600 mm, the panels have to be reinforced some way to prevent bending. The reinforcement can be made for example with wooden profiles screwed and glued behind the panel.

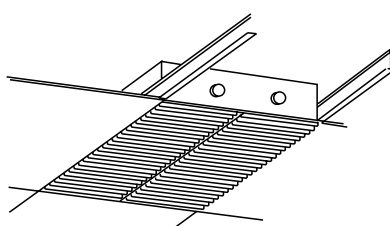


**Example of hanging panel size 1190 x 1190 mm:**



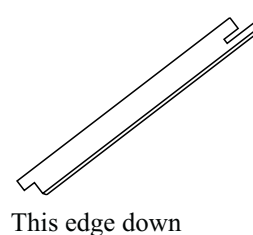
Det AK 10

**Installation of lighting:**



Det AK 11

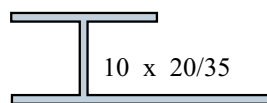
**Panel direction in sloping ceiling:**



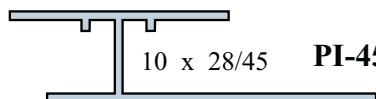
Det AK 12

## Fixing accessories in metal:

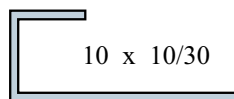
### Elam -system profiles



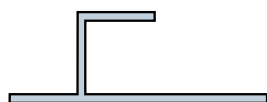
**PI-3510**  
Aluminium extruded profile.  
Painted if necessary.  
Length 2,7 m.  
Thickness of material 1,2 mm.



**PI-4510**  
Aluminium extruded profile.  
Painted, anodised, coated with imitation band or real lacquered wood veneer when necessary.  
Length 2,7 m.  
Thickness of material 1,2 mm.



**J-3010**  
Aluminium extruded profile.  
Length 2,7 m.  
Thickness of material 1,2 mm.



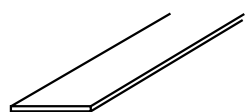
**PI-3510-M**  
Modified PI-3510



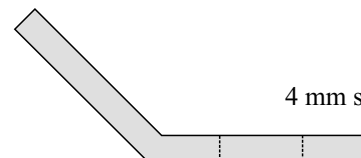
**EL-30** Steel or aluminium profile for upper edge.



**Hat profile**  
Anodised extruded aluminium, breadth 30 mm.  
Painted steel, breadth 30 and 22 mm.



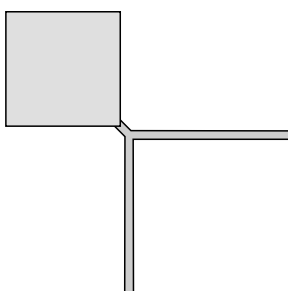
Tongue profile, 1,8x20 mm plywood.



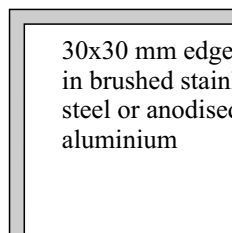
4 mm stainless steel corner profile



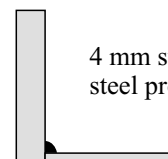
2 mm aluminium corner profile



15x15 mm stainless steel corner profile

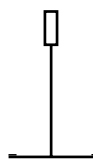


30x30 mm edge profile in brushed stainless steel or anodised aluminium

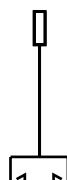


4 mm stainless steel profile

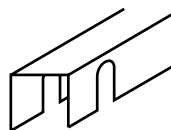
### Ceiling accessories



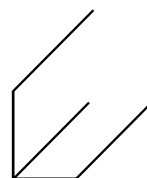
**DILX 370**  
T-24 profile, galvanised or oven enamel painted steel.  
Length: 3,7 m.



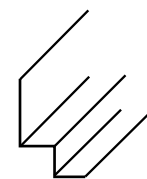
**UFL**  
"Fineline" -profile.  
Length: 3,6, 1,2 and 0,6 m



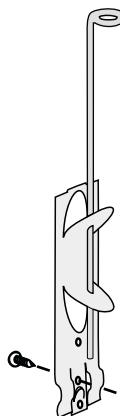
Distance profile, galvanised steel.  
Length: 1,2 and 0,6 m.



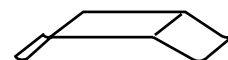
L-wall trim  
and



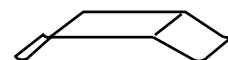
Double L-wall trim painted according to NCS codes.



**Hanger wire M**  
with loop.  
L 150 to 2500 mm.



**TJ-200**  
Adjustable clip.



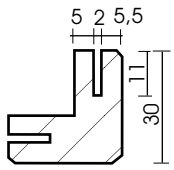
**DCC-8**  
Wall clip (if necessary).

## Wood mouldings:

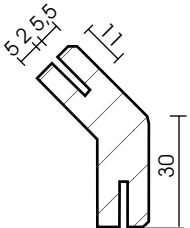
**KLT-system:** Fixing with PI-aluminium profiles. Requires exact dimensioning and straightness of wall constructions.

**KRL-system:** Fixing with screw or glue. Allows to use of sawn edges making the installation work easier.

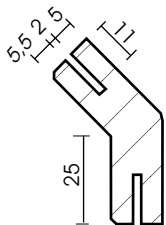
### Edge profiles:



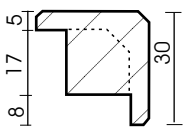
**KLT-1**  
Outer corner



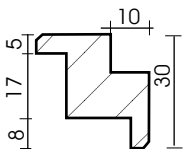
**KLT-2**  
Outer corner with freely chosen angle.



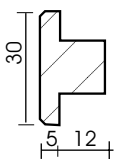
**KLT-3**  
Inner corner with freely chosen angle.



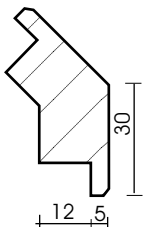
**KRL-1**  
Outer corner.



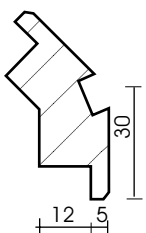
**KRL-2**  
Notched outer corner profile.



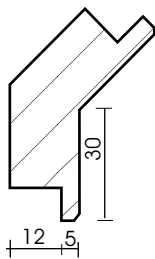
**KRL-3**  
Joint Profile.



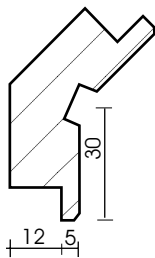
**KRL-4**  
Outer corner with freely chosen angle.



**KRL-5**  
Notched outer corner with freely chosen angle.

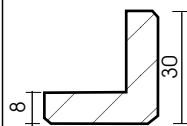


**KRL-6**  
Inner corner with freely chosen angle.

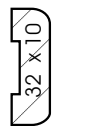


**KRL-7**  
Inner notched corner with freely chosen angle.

### Covering profiles:



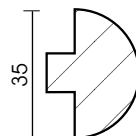
**PL-1**  
Outer corner



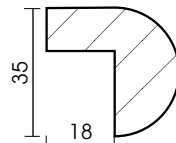
**PL-2**  
Bead



**PL-3**  
Corner profile



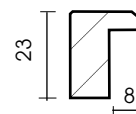
**PL-4**  
Half round joint profile



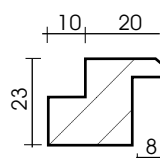
**PL-5**  
Half-round edge profile



**PL-6**  
Door frame bead

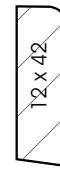


**KRL-8**  
Edge bead



**KRL-9**  
Notched edge bead

### Skirting profiles:



**JL-1**  
Installed on the wall paneling.



**JL-2**  
Installed under the wall paneling.

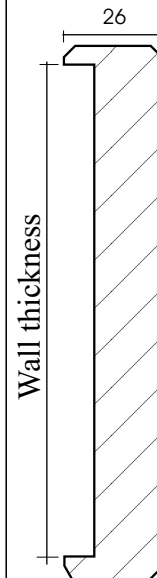


**JL-3**  
Installed under the wall paneling with PI-profiles.



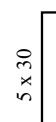
**JL-4**  
Installed under the wall paneling with PI-profiles. KRL-system.

### Wall end covers:



**SPL-1**  
Suits especially with other KRL-profiles.

### "Filling" profile:



**TL-1**  
To lift the sawn edge of the panel to the same level as PI-profiles.