



DESCOR[®]
Technical assembly instructions

DESCOR[®] cleaning

Every surface can get dirty.
DESCOR[®] is just as easy to clean as it is to install.

The following procedure is recommended in this case:

1. Clothes brush

In most cases, light soiling can be removed by concentric movements while applying slight pressure with a clothes brush.

2. Microfiber cloth

The best way to remove dirt is using a damp microfiber cloth.

3. Rubber eraser

Some drugstores also offer relevant "dirt erasers". These can be used to remove a multitude of possible types of dirt.

Allergens and micro-organisms

The material is resistant to a multitude of pollen and microparticles due to its very fine textile structure. In addition, an antifungal layer provides a surface upon which fungi cannot reproduce.

Welcome

to the technical world of PONGS[®] walls, ceilings & panels

The application, the processing, the installation, the accessories: Here you will easily find the right answer to all detailed technical questions related to the DESCOR[®] system, which is incredibly diverse, but still simple to process.

PONGS[®] produces and develops decorative and acoustic textile clamping systems for ceilings, walls and panels. The applications are universally usable both in new builds and in renovations. The installation of decorative elements as well as technical components such as e.g. lamps, spotlights, exhaust air systems and air handling units is simple to complete. The DESCOR[®] system is the ideal solution for all ceiling and wall coverings.

Advantages at a glance

DESCOR[®] is installed at room temperature and does not require the room to be additionally heated.

DESCOR[®] is multi-talented in this field: no other wall or ceiling is so harmonically smooth and simple to install and at the same time so clean and flexible to replace.

DESCOR[®] is a system that has proven itself 1,000 times and has applications from the largest construction projects, up to the largest cruise ships.

DESCOR[®] is high-resolution up to a width of 500 cm and is individually digitally printable. This means unlimited freedom for your ideas.

DESCOR[®] fulfils the CE and VOC standards and here achieves the highest possible emission requirement class: A+. The newly installed product smells similar to a freshly painted room for a few days.

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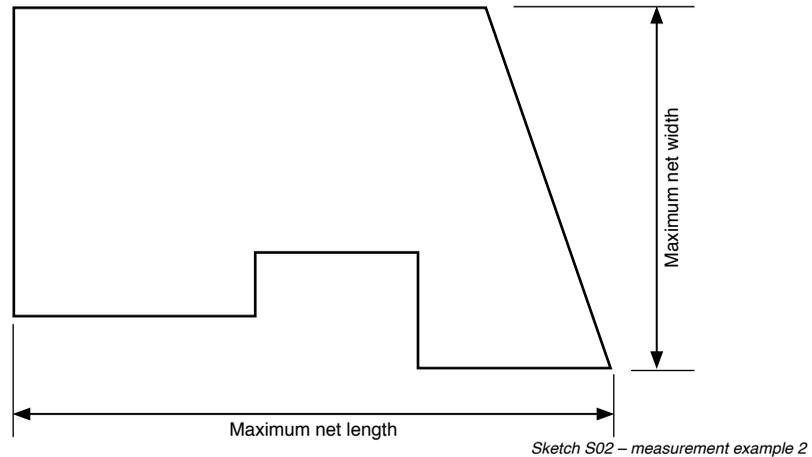
1. Preparation: Dimensions and ordering

1.1 The dimensions

The maximum width and length of the wall or ceiling area are required/ measured.



It is not necessary to measure the diagonals, intermediate dimensions and angles.



1.2 Assembly reserve/ handling reserve

For the installation an allowance is added all around to the measured dimensions of the ceiling or wall (this is hereinafter referred to as assembly reserve).

The following table serves as a guide:

The assembly reserve depends on the size of the area or on the largest measured value.

Maximum measured value (in m)	Assembly allowance required per side (in m)
< 3.00	0.10
3.01 to 5.00	0.15
5.01 to 6.00	0.20
6.01 to 10.00	0.30
> 10	> 0.50

Table T01 – assembly reserve

1. Preparation: Dimensions and ordering

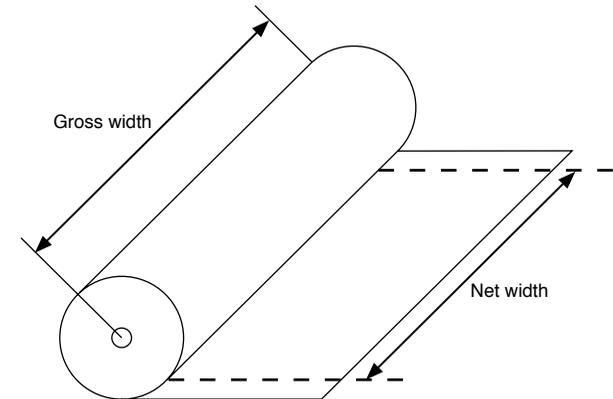
1.3 Ordering DESCOR®

1.3.1 Material on reels

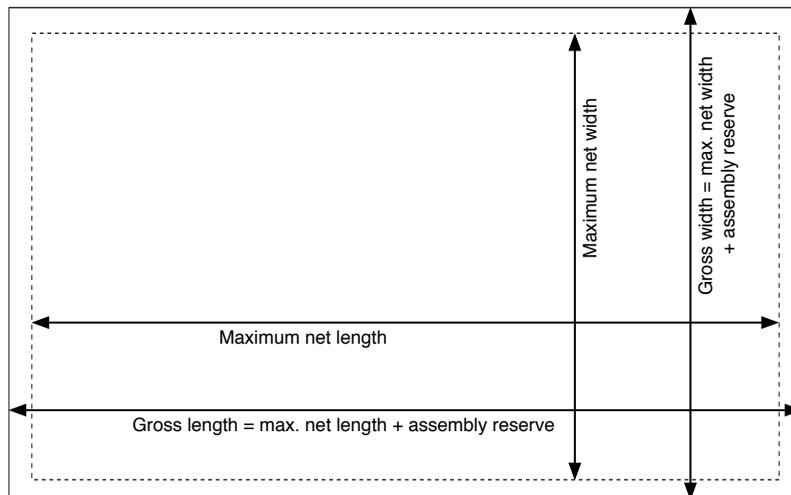
DESCOR® is available in different dimensions and can be ordered in the following standard widths. The relevant information can be viewed on the current price lists and sample cards. The standard length of a roll is 50 linear meters.

Gross width in m	Net width in m
3.20	3.10
3.60	3.50
4.20	4.10
4.60	4.50
5.20	5.05

Table T02 - standard widths of material on reels



Sketch S03 - material on reels – gross/net



Sketch S04 - determining the right size to order

1.3.2 Cut

If the measurement (please see Item 1.1) is known, the required assembly reserve (please see Item 1.2) is added on. This is calculated from the cutting measurements to be ordered (please see ordering example).

The width dimension is adapted to the relevant available reel width of the required material.

Ordering example:

Net dimension of ceiling: 2.90 m × 6.20 m
 Net dimension + assembly reserve: 2.90 m + 0.10 m + 0.10 m = 3.10 m
 6.20 m + 0.30 m + 0.30 m = 6.80 m

Ordering: DESCOR® PR. 599130 320 450
 3.20 m × 6.80 m Item No. Width Color

2. The DESCOR[®] profile

2.1 Explanation

The DESCOR[®] profiles are pre-drilled at a distance of 15 cm, whereby optimal installation is guaranteed through the use of screws. In addition, each of the profiles must be fastened to all joints/miters with a screw at the start and the end.

Chamfered edge (1)

The profile can be positioned better in corners thanks to chamfered edge.

Soft lip (2)

Due to a flawless finish the irregularities of the supporting surface are corrected.

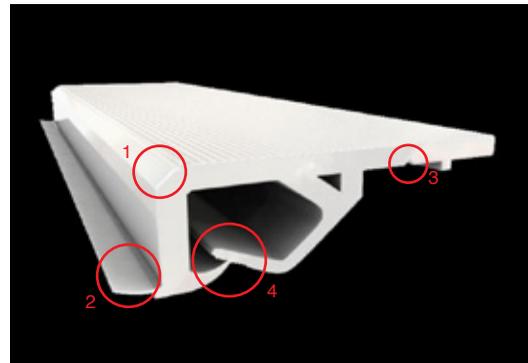


Image B01 – profile view

So that this work process can be completed without problems, the profile is provided with an integrated groove that simplifies the positioning of the screw.

Drill marking (3)

Thanks to drill markings, the fastening is simple and precise. It is therefore not necessary to remove the profile due to a screw that has been placed too far to the right. There is also no risk that the mounting clamp will squash the material due to a screw that is placed too far to the left.

Ribbed lip (4)

The ribbed lip ensures a safe support of the material and prevents it from slipping out after it has been grouted in.

2.2 Types of profile

Item number	Designation	Color	Length (in m)	Material	Feature	
098000 999	AP*	white	2.00	PVC	pre-drilled every 15 cm	
098001 999	AP*	black	2.00			
098002 999	AM**	white	2.00			
098003 999	AM**	black	2.00			
098004 999	AP*	white	3.00		pre-drilled every 15 cm, for curves	
098005 999	AP*	black	3.00			
098006 999	APC***	white	2.00			
098007 999	APC***	black	2.00			
098010 999	AP*	gray	2.00			pre-drilled every 15 cm

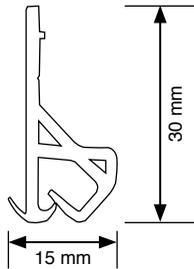
* Please see Item 2.2.1; ** Please see Item 2.2.2; *** Please see Item 2.6

Table T03 - types of profile

2. The DESCOR[®] profile

If a direct fastening of the DESCOR[®] profile onto the supporting surface is not possible or a greater installation depth is required, then, for example, an additional wooden strip or a wall bracket can be fitted. The DESCOR[®] profile can be screwed onto the newly created supporting structure as usual (possibly also glued).

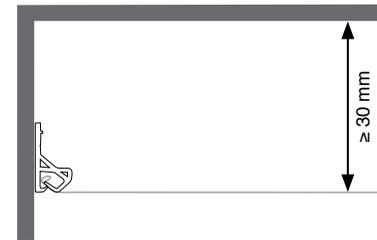
In every case the fastening must be completed carefully and every screw must be correctly in place, in order to guarantee a flawless result on the wall or ceiling. The correct screws/ screw lengths/ dowels and adhesive for the installation situation and supporting surface must be used. Further notes on possible fastenings are described under Item 2.3/ 2.4.



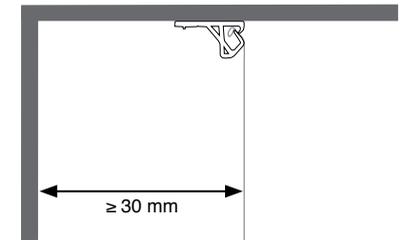
Sketch S05 - DESCOR[®] AM profile

2.2.1 DESCOR[®] AM profile

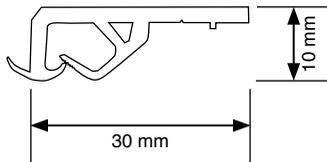
The DESCOR[®] AM profile enables direct fastening onto the wall, in order to achieve the required suspension height (S07). This fastening profile is especially suitable for fastening onto plasterboards.



Sketch S07 - DESCOR[®] AM profile version



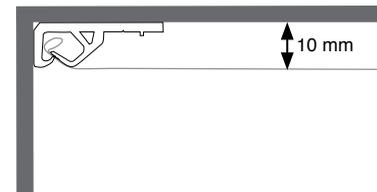
Sketch S08 - DESCOR[®] AM profile version



Sketch S06 - DESCOR[®] AP profile

2.2.2 DESCOR[®] AP profile

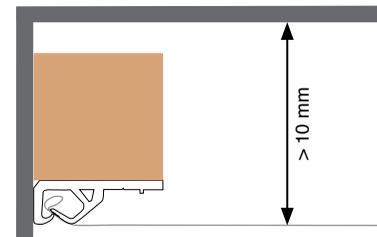
In the case of direct fastening onto the existing wall/ ceiling the DESCOR[®] AP profile enables a minimum installation depth of 10 mm (which corresponds to the height of the profile).



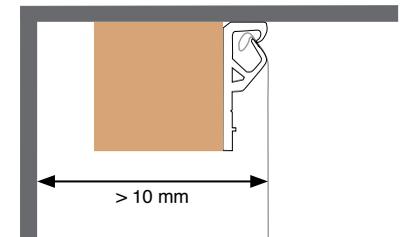
Sketch S09 - DESCOR[®] AP profile version



Sketch S10 - DESCOR[®] AP profile version



Sketch S11 - DESCOR[®] AP profile version



Sketch S12 - DESCOR[®] AP profile version

2.3 Fastening options for a ceiling

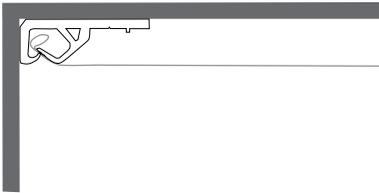
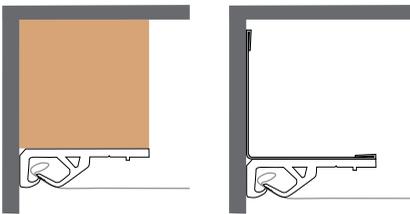
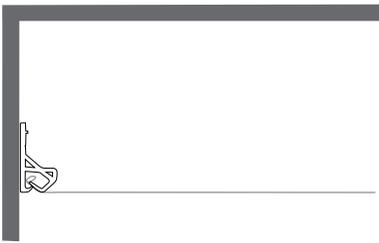
	Distance (in mm)	Profile	Supporting surface present	Supporting structure required	Fastening of DESCOR [®] profile onto supporting structure
	10	AP	Wood	no	round-head screws (4 × 20 mm)
			Plasterboard	no	contact adhesive + plasterboard screws (5.5 × 38 mm)
	≥ 40		Concrete	Wood/ wall angle	Wood: round-head screws (4 × 20 mm)
			Brick	Wood/ wall angle	Wall angle: pan head drilling screw (3.9 × 25 mm)
	≥ 40	AM	Wood	no	round-head screws (4 × 20 mm)
			Plasterboard	no	contact adhesive + plasterboard screws (5.5 × 38 mm)
			Concrete	Wood/ wall angle	Wood: round-head screws (4 × 20 mm)
			Brick	Wood/ wall angle	Wall angle: pan head drilling screw (3.9 × 25 mm)

Table T04 - ceiling fastening options

2.4 Fastening options for a wall

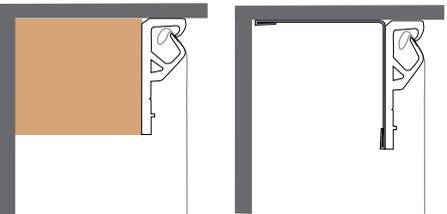
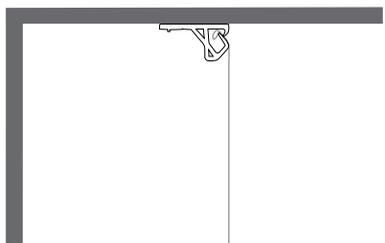
	Distance (in mm)	Profile	Supporting surface present	Supporting structure required	Fastening of DESCOR [®] profile onto supporting structure
	10	AP	Wood	no	round-head screws (4 × 20 mm)
			Plasterboard	no	contact adhesive + plasterboard screws (5.5 × 38 mm)
	≥ 40		Concrete	Wood/ wall angle	Wood: round-head screws (4 × 20 mm)
			Brick	Wood/ wall angle	Wall angle: pan head drilling screw (3.9 × 25 mm)
	≥ 40	AM	Wood	no	round-head screws (4 × 20 mm)
			Plasterboard	no	contact adhesive + plasterboard screws (5.5 × 38 mm)
			Concrete	Wood/ wall angle	Wood: round-head screws (4 × 20 mm)
			Brick	Wood/ wall angle	Wall angle: pan head drilling screw (3.9 × 25 mm)

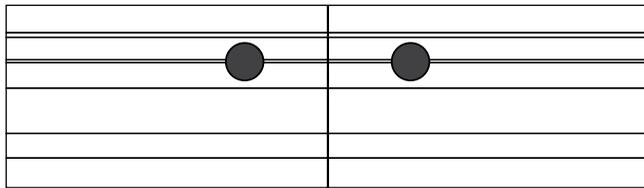
Table T05 - wall fastening options

2. The DESCOR[®] profile

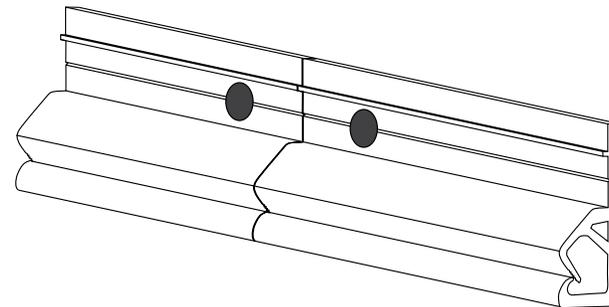
The alignment of the profiles can be simplified through the use of the DESCOR[®] assembly spatula.

2.5 Connecting of profiles

The connections between the profiles must be clean and carefully arranged, so that no distance is visible between the profiles. The profiles (please see Item 2.1) must additionally be fastened by screws.



Sketch S13 - profile connection – top view



Sketch S14 - profile connection – diagonal view

2.5.1 Connecting two profiles in corners

The miters can be made using miter shears with lever transmission or a miter saw (alternatively, a saw with a miter gage).

In the case of miters the clean and careful arrangement must also be ensured. The area that is later visible (1) is important here. The inner area (2) does not require any particular care, because this will later be covered by the textile.



Image B02 - miter shears

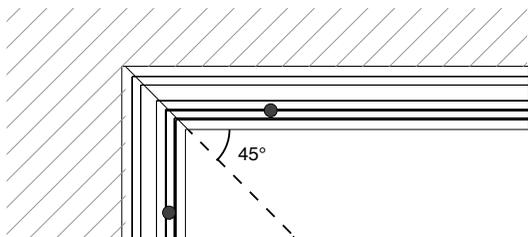


Image B03 - miter saw



Image B04-B06 - corner assembly

2. The DESCOR[®] profile



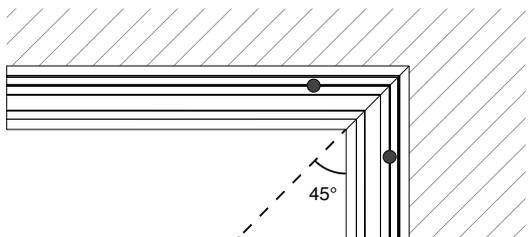
Sketch S15 - profile connection - top view



Image B07 - corner assembly - shell



Image B08 - corner assembly - with textile



Sketch S16 - profile connection - top view



Image B09 - corner assembly - shell

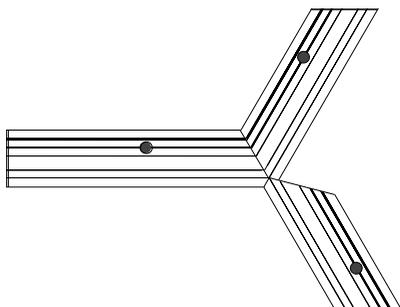


Image B10 - corner assembly - with textile

2.5.2 Connecting more than two profiles

Under consideration of the procedure named in Item 2.5.1, connections of several profile rails (e.g. in the case of gables/ the roof area) are possible.

In doing this, the miter angle must be adapted individually.



Sketch S17 - connection of three profiles



Image B11 - example of connection of three profiles - shell



Image B12 - example of connection of three profiles

2. The DESCOR[®] profile

2.6 DESCOR[®] APC profile

The DESCOR[®] APC profile enables the use and the realization of rounded forms and curves. The smallest possible radius is about 20 cm.

We recommend fastening the profiles with screws at a distance of 5 cm. For optimal support, an appropriate adhesive should also be used.

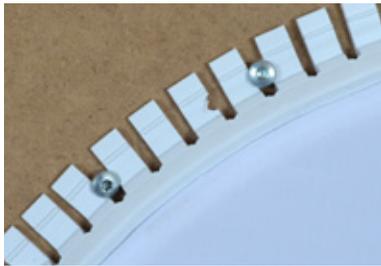


Image B13 - DESCOR[®] APC profile



Image B14 - DESCOR[®] APC profile

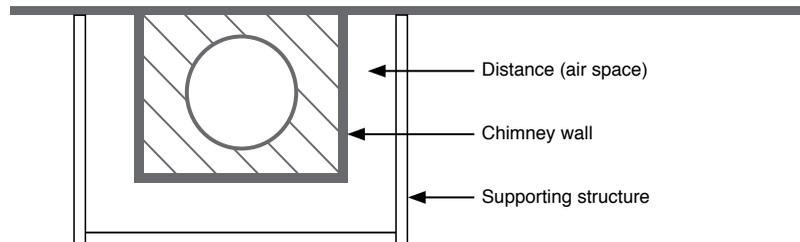


Image B15 - DESCOR[®] APC-profile – minimum bending radius = 20 cm

2.7 Installation situation for fireplaces

DESCOR[®] profiles are designed for use at normal room temperatures. A permanent temperature of 55°C on the profile should not be exceeded, in order to avoid the danger of the deformation of the profile (especially at the clamping lip). For temperature measurements it was determined that in the

case of different kinds of chimneys, atmospheric temperatures of around 70°C or more can arise. For the determination and definition of coverings and distances, a temperature measurement (actual temperature) should take place over several hours near the site of installation.



Sketch S18 - fireplace integration

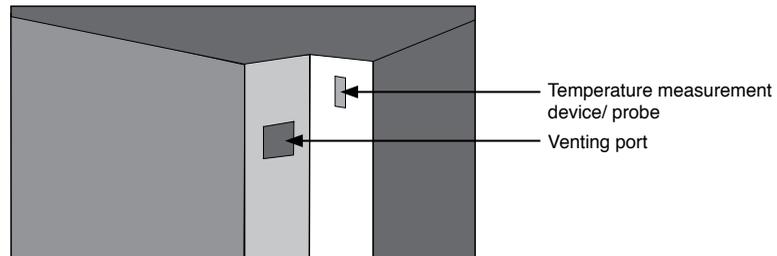


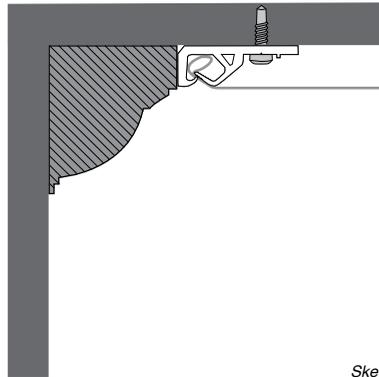
Image B19 - temperature control

2. The DESCOR[®] profile

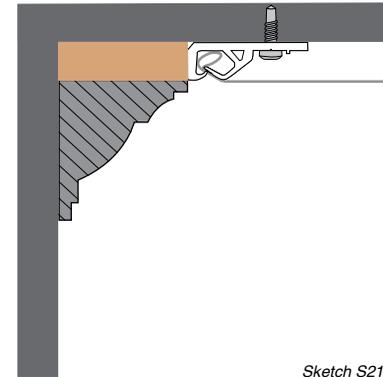
2.8 Wall ledges and other decorative profiles

With the DESCOR[®] system, existing wall ledges and decorative profiles can be retained (in the case of the use of the DESCOR[®] AP profile with an installation depth of 10 mm).

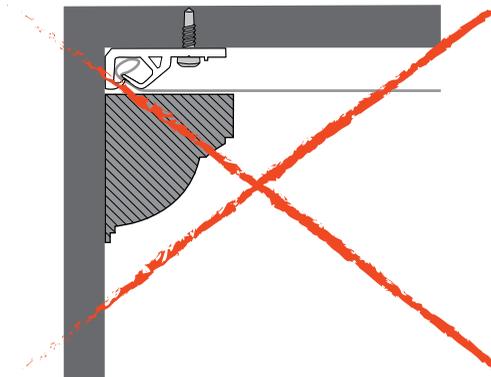
For the assembly of new wall ledges/ decorative profiles there are several solutions, depending on the suspension height. In general, a wooden supporting structure should be worked with.



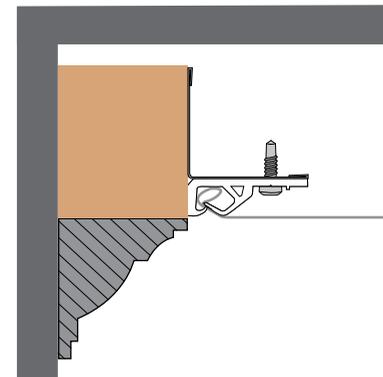
Sketch S20 - available wall ledges



Sketch S21 - wooden support (h = 10 mm)



Sketch S22 - integration of wall ledge



Sketch S23 - variable wooden support (h > 10 mm)

The DESCOR[®] profile should not be covered by the wall ledge, in order to ensure that the wall ledge is replaced quickly and in an uncomplicated way.

3. Double clamping

3.1 Explanation

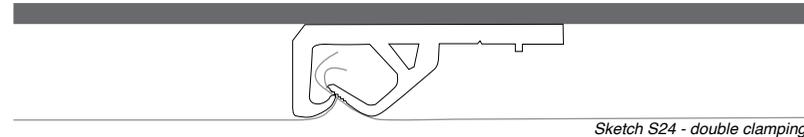
In the case of wall or ceiling areas that exceed 5 m both in their length and in their width, it is possible to make a double clamping. For this, two clamping surfaces made from the same batch of material (the same production) are connected to one another. At the crossover, one single profile is used.

At a crossover between a wall and a ceiling, a double clamping can also be completed in one profile.

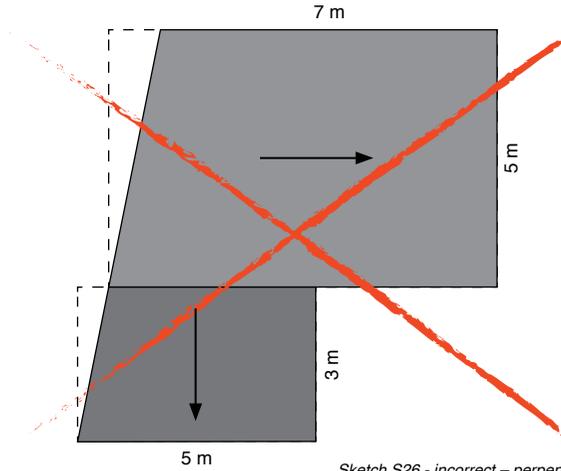
3.2 Running direction

In the case of a double clamping, account must always be taken of the running direction of the DESCOR[®] ceiling. This means the running direction of both surfaces must be aligned in the same way. Otherwise, depending on the structure, light reflection can cause a visible difference in color to result in the material.

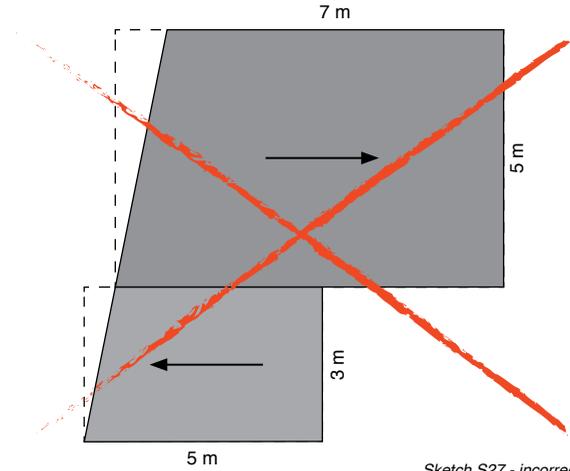
If orders are for double clampings, this must always be specified.



3. Double clamping

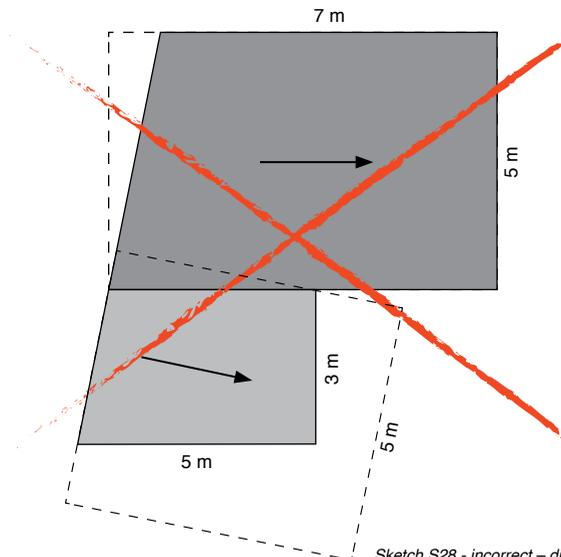


Sketch S26 - incorrect - perpendicular to one another

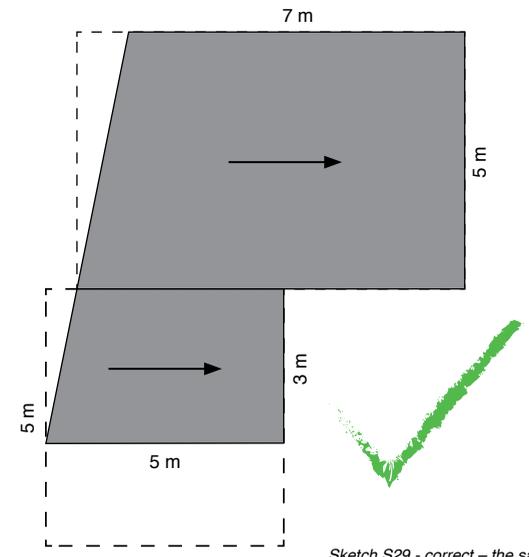


Sketch S27 - incorrect - opposite direction

Running direction →



Sketch S28 - incorrect - diagonal to one another



Sketch S29 - correct - the same, parallel direction

4. Integration of technical elements

4.1 Selection of the supporting structure

The integration of technical elements frequently requires the additional installation of a supporting structure. The selection of the correct material is very important in this. Thus it should be ensured that non-corrosive screws are used in the bathroom.

The installation of the supporting structure must be carried out with the greatest possible care. A poorly implemented supporting structure leads to considerable requirements for subsequent improvements that take a lot of time.

Also the selection of the correct color for the material used for the supporting structure is important here. Do not paint white under any circumstances!

If possible, use a paint color that corresponds to the surface to be covered or dark colors such as those from MDF, OSB or chipboards.

The smaller the distance between the supporting structure and the textile ceiling and the lighter the supporting structure, the greater is the danger that this poses to the textile ceiling by its outline through residual light and reflections after its installation.

Especially in the case of the DESCOR[®] PREMIUM acoustic attention must be paid to this, because it is particularly permeable to air. Also in the case of DESCOR[®] PREMIUM natural white, because no additional colour components are added

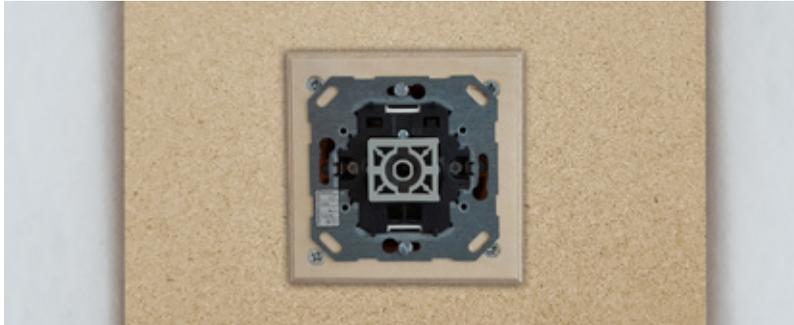


Image B17 - supporting structure - dark

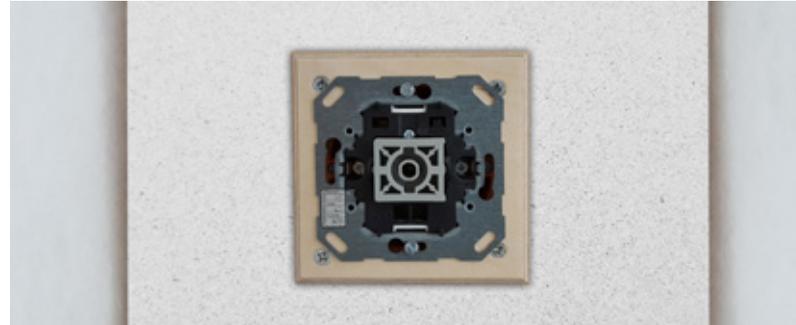


Image B18 - false supporting structure - light



Image B19 - completed final assembly



Image B20 - final assembly with visible supporting structure

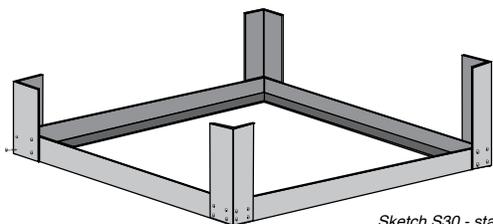
4. Integration of technical elements

4.2 Inspection cover

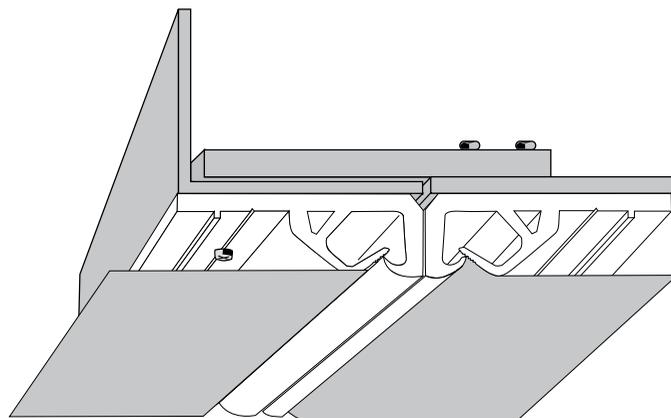
Areas that often require maintenance must be provided with inspection openings. In the case of installation of inspection flaps the situation on site is always decisive.

The covering of the inspection cover with DESCOR[®] differs depending on the type of fastening:

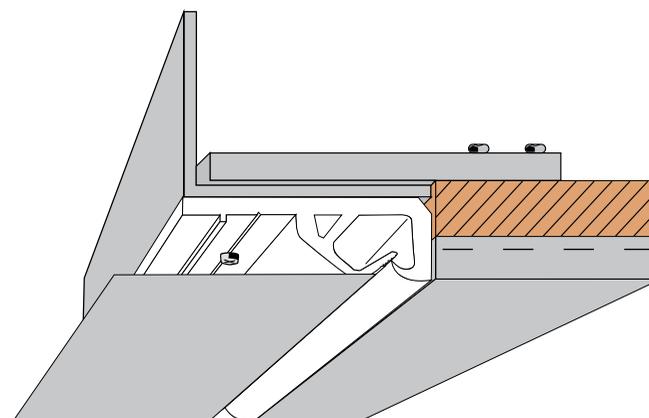
Glues, tacks or the use of DESCOR[®] profiles.



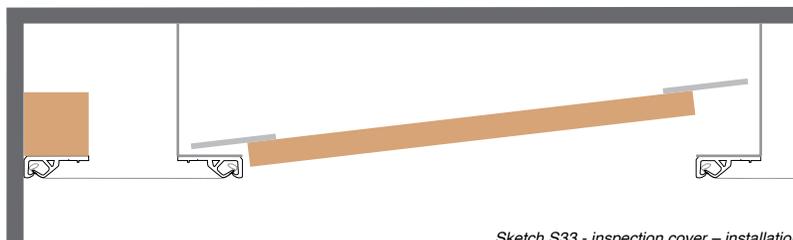
Sketch S30 - standard inspection cover 60 x 60 cm



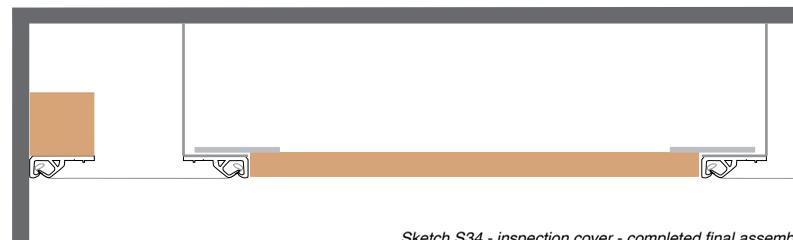
Sketch S31 - inspection cover with AP profile



Sketch S32 - inspection cover fixed on



Sketch S33 - inspection cover - installation

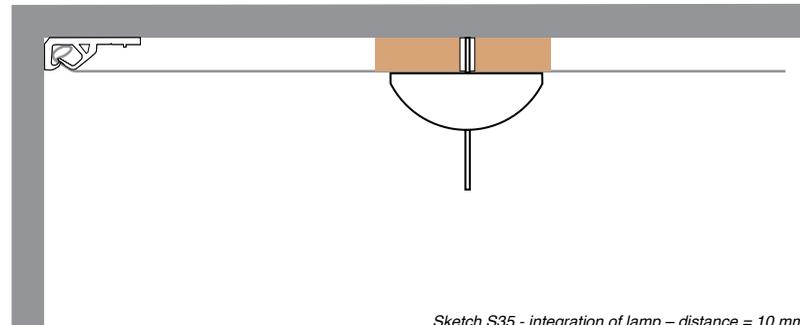


Sketch S34 - inspection cover - completed final assembly

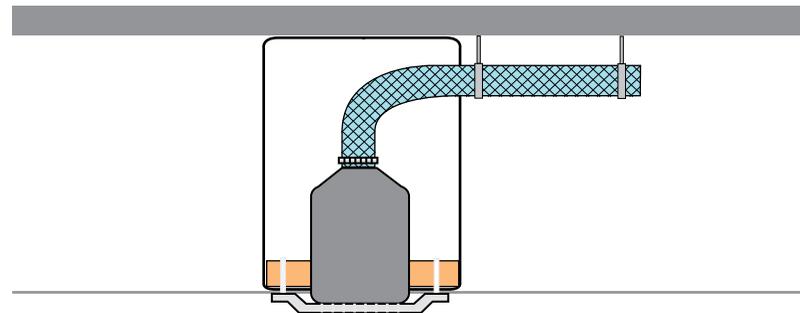
4. Integration of technical elements

4.3 Lighting and ventilation units

After fastening of the DESCOR[®] profiles, a 10 mm wooden panel, for example, is fitted flush with the DESCOR[®] profiles on the existing ceiling. For an optimal adaptation to the height, a cord can be configured. The cord is stretched from profile to profile through the use of an assembly spatula and then the supporting structure/ spotlights are installed flush to the cord.

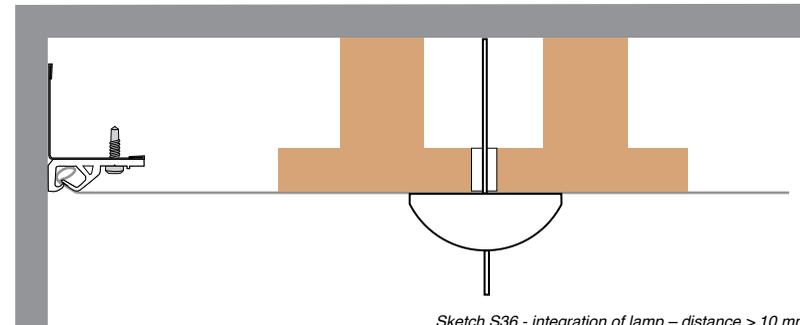


Sketch S35 - integration of lamp – distance = 10 mm

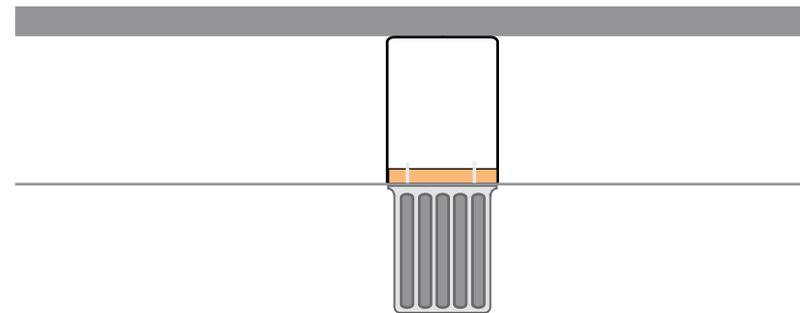


Sketch S37 - integration of ventilation gaps

In order to compensate for small height differences, the edges on the wooden plate supporting structure are rounded. After assembly of the ceiling, the lamp is fastened onto the pre-assembled wood supporting structure through the ceiling. The location can be made visible with the help of a laser.



Sketch S36 - integration of lamp – distance > 10 mm



Sketch S38 - integration of smoke detectors

The DESCOR[®] ceiling can be cut into with a cutter knife. There is no danger that the place that has been cut into will tear further. It is not necessary to additionally stick in a safety ring (such as in the case of a vinyl ceiling).

All fittings/ supporting structures must be fastened in such a way that they do not become loose and/ or fall from behind onto the DESCOR[®] ceiling, or could touch this.

4. Integration of technical elements

4.4 Installation of spotlights

For the installation of standard spotlights, PONGS[®] offers a spotlight installation frame that makes installation simpler and shortens the installation time.

Properties/ Advantages:

- Removable ring for different diameters (70 and 80 mm)
- Contact between textile and spotlight installation frame max. on the lowest ring level (see sketch S40)
- Height regulation through later adjustment is possible
- Space for storage of transformers: This can also be removed through the opening of the spotlight for the purpose of maintenance or repair.
- Height regulation between 65-95 mm

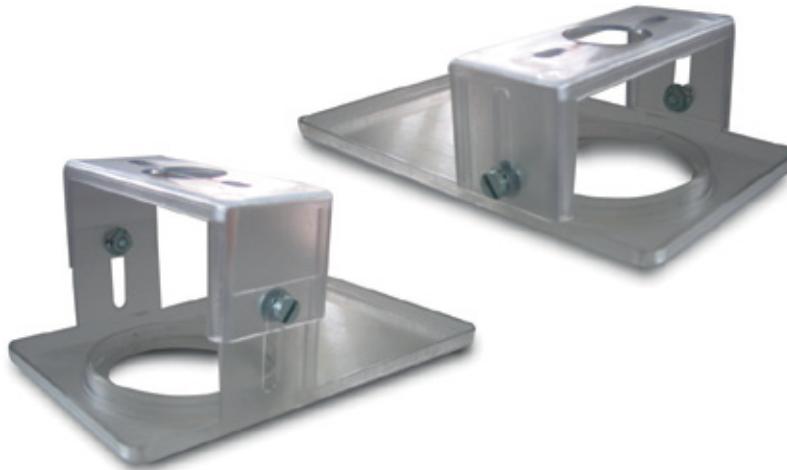
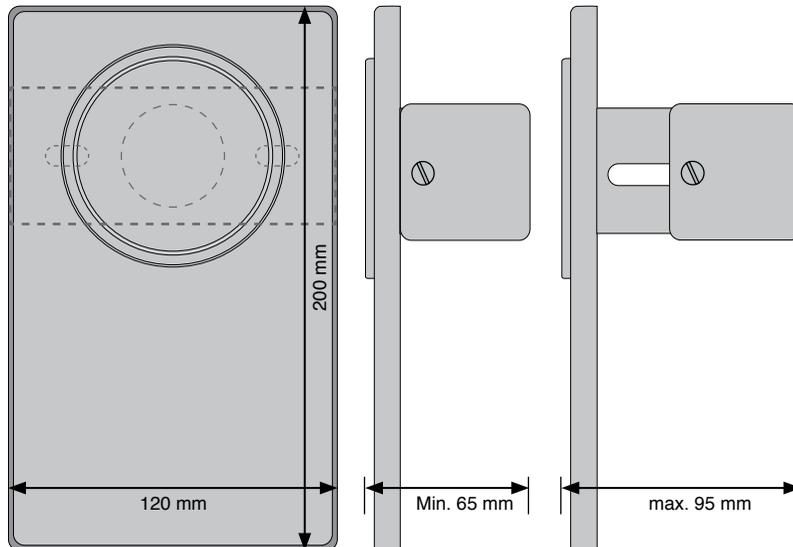
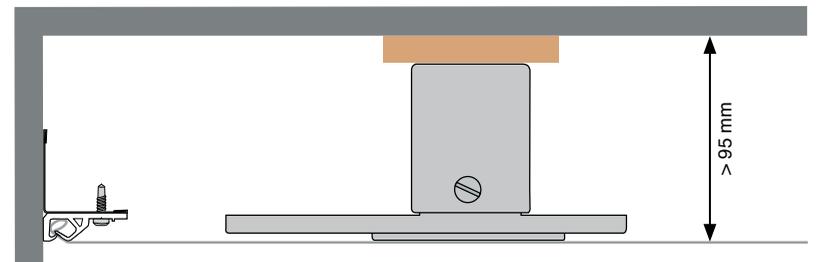
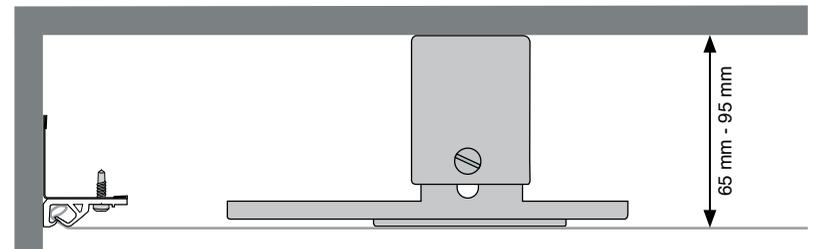


Image B21 - spotlight installation frame



Sketch S39 - spotlight installation frame



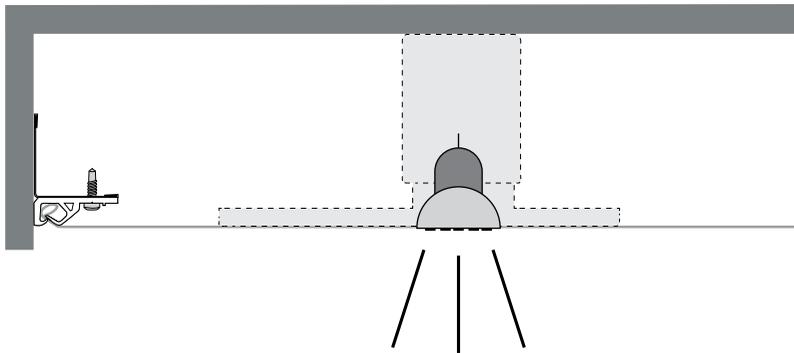
Sketch S40 - spotlight integration

4. Integration of technical elements

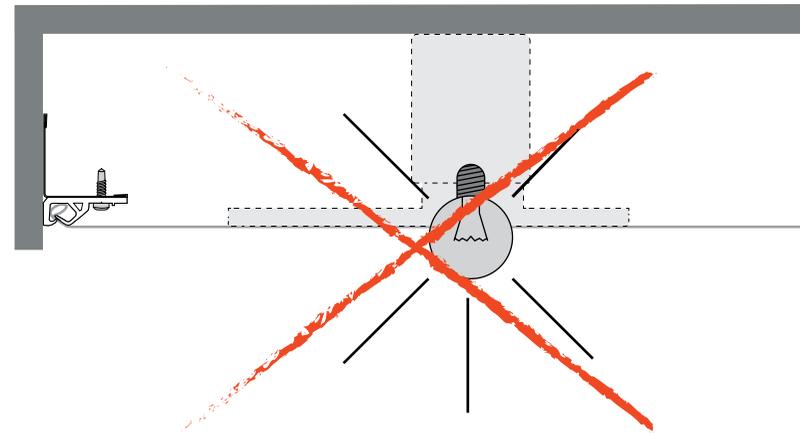
4.5 Use of a lamp

During installation it must be ensured that no openings arise that could allow light to shine into the space between the textile and the ceiling.

An example here is the use of LED spotlights (left image).



Sketch S41 - integration of spotlight



Sketch S42 - incorrect - integration of light bulb with light beams in the space

5. The installation

5.1 Special tools required

Two special tools are required for the installation:

- Assembly spatula
- Spatula for arranging the corners

Further important tools as well as accessories are listed in the current price lists.



Image B22 - spatula for corner processing and assembly spatula

5. The installation

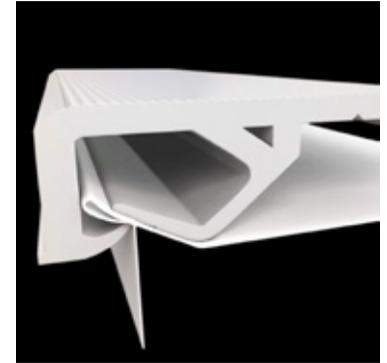
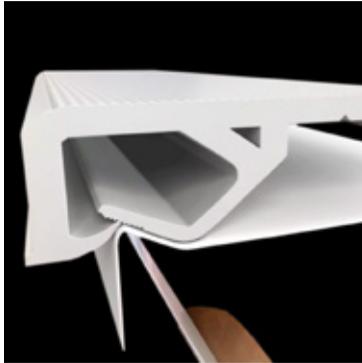


Image B23-26 - fastening (schematic)

5.1 Fastening of a stretched ceiling

The assembly spatula is placed/ pressed into the DESCOR[®] textile and unrolled to the side. Then the assembly spatula is pulled out. This process is repeated at regular intervals (see also item 5.2). The textile must be incorporated/ pushed in, between 0.8 and 1.0 cm into the profile.

During unrolling the spatula, attention must especially be paid to the tip of the spatula, so that the textile is not damaged. The tip of the spatula is only used for finishing the corners. After the complete stretching the protrusion is cut to about 1 cm before the profile. The excess material is then completely incorporated into the profile using the assembly spatula.

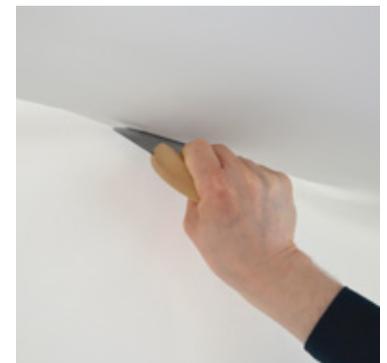
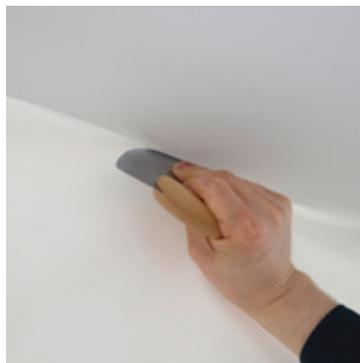


Image B27-B30 - fastening

5. The installation

5.2 Installation of a one-colored stretched ceiling

Positioning, fastening, stretching

Begin with the positioning about 20 cm before one corner (1). From there, the stretched ceiling is fastened into the DESCOR[®] profile (2) about every 40 cm. This process is repeated up to about 20 cm before the end of the next corner (3). $\leftarrow 20 \cdot 40 \cdot 40 \cdot \dots \cdot 40 \cdot 40 \cdot 20 \rightarrow$

Now a triangle is formed and the tip that has been formed (4) is again fastened to the opposite side in the DESCOR[®] profile. From the position fastened in the middle, now, at a distance of 40 cm the stretched ceiling is fastened to the ends (5 and 6). $\leftarrow 20 \cdot 40 \cdot \dots \cdot 40 \cdot 40 \cdot \dots \cdot 40 \cdot 20 \rightarrow$

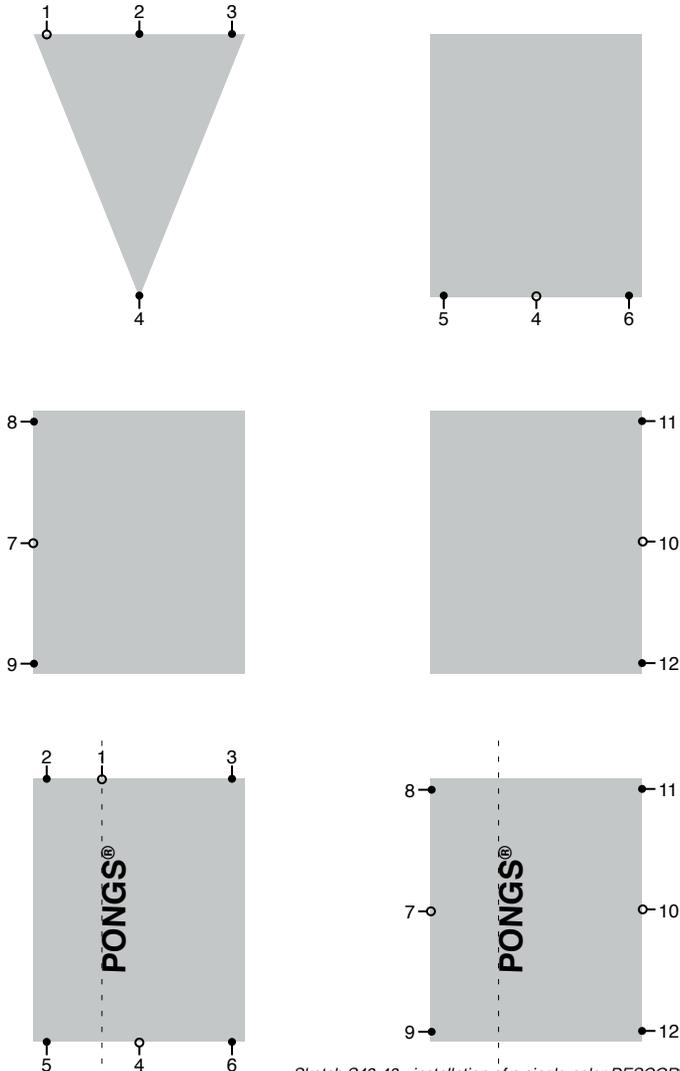
The two other sides are fastened to the corners (7-12) in the same procedure from the middle (images of a triangle) and also at a distance of 40 cm in the DESCOR[®] profile.

Then the sides are retightened. A start is made in the middle of each side. To do this, the nearest fixation point is loosened and the material is then retensioned every 20 cm. $\leftarrow 20 \cdot 20 \cdot \dots \cdot 20 \cdot 20 \cdot \dots \cdot 20 \cdot 20 \rightarrow$

If the ceiling now has enough tension and no folds can be seen, the complete clamping of the stretched ceiling in the profile can take place – starting in the middle.

4.2.1 Installation of a digital print

During fastening, attention must be paid to the positioning of the pressure and its position in the room, if necessary a start must be made not at a corner but at a certain position (1); from there, proceed according to the points described previously.



Sketch S43-48 - installation of a single-color DESCOR[®] ceiling

5. The installation

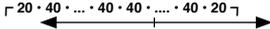
5.3 Installation of a DESCOR[®] ceiling (> 7 linear meters)

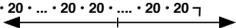
During the installation of stretched ceilings with a length of more than 7 linear meters, points are added during the completion, so that the stretched ceilings do not sag under their own weight during the installation.

Positioning, fastening

Starting with the narrow side (which corresponds to the DESCOR[®] fabric width; max. 5.20 m gross) the ceiling is fastened in accordance with Item 4.1 in the DESCOR[®] profile at a distance of 40 cm (1-3). For the easier installation of the opposite sides and in order to avoid a sagging of the ceiling, additional clamping points are added on the long sides depending on the length of the ceiling (for examples, please see: 4-7) Then the fastening to the second narrow side (opposite the starting point) takes place, starting in the middle (8-10).

Pretensioning, tensioning

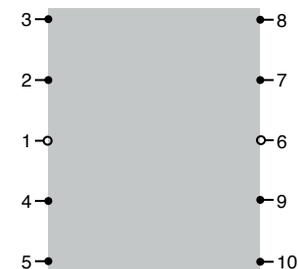
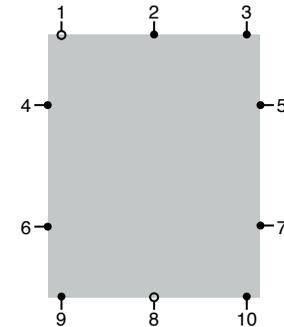
Starting in the middle on one of the long sides, fastening to the corners takes place again with a distance of about 40 cm (1-5). Then the opposite long side is fastened analogously (6-10). 

Then the sides are retightened. A start is made in the middle of each side. To do this, the nearest fixation point is loosened and the material is then retensioned every 20 cm. 

Precision work

If the ceiling now has enough tension and no folds can be seen, the complete clamping of the stretched ceiling in the profile can take place – starting in the middle.

Finally the protrusion is cut, up to about 1 cm before the profile. The excess material is completely worked into the profile using the assembly spatula.



Sketch S49-50 - installation of a DESCOR[®] ceiling

5. The installation

5.4 Installation of complex ceiling systems

In the case of complex ceiling systems, the assembly of a ceiling is split into several zones. Firstly, the larger zone is prepared.

Positioning, fastening (Zone A)

Begin with the positioning about 20 cm before one corner (1). From there, the stretched ceiling is again fastened into the DESCOR® profile at a distance of 40 cm. This work step is repeated up to about 20 cm before the end of the next corner (1-4). $\leftarrow 20 \cdot 40 \cdot 40 \cdot \dots \cdot 40 \cdot 40 \cdot 20 \rightarrow$

Then the opposite side is fastened into the DESCOR® profile (5-8).

Pretensioning, tensioning (Zone A)

Then the starting side is retightened. A start is made in the middle of the side. For this, the nearest fixation point is loosened and the material is now retensioned every 20 cm (1-5). $\leftarrow 20 \cdot 20 \cdot \dots \cdot 20 \cdot 20 \cdot \dots \cdot 20 \cdot 20 \rightarrow$

Then the opposite side is retightened in the DESCOR® profile (6-9).

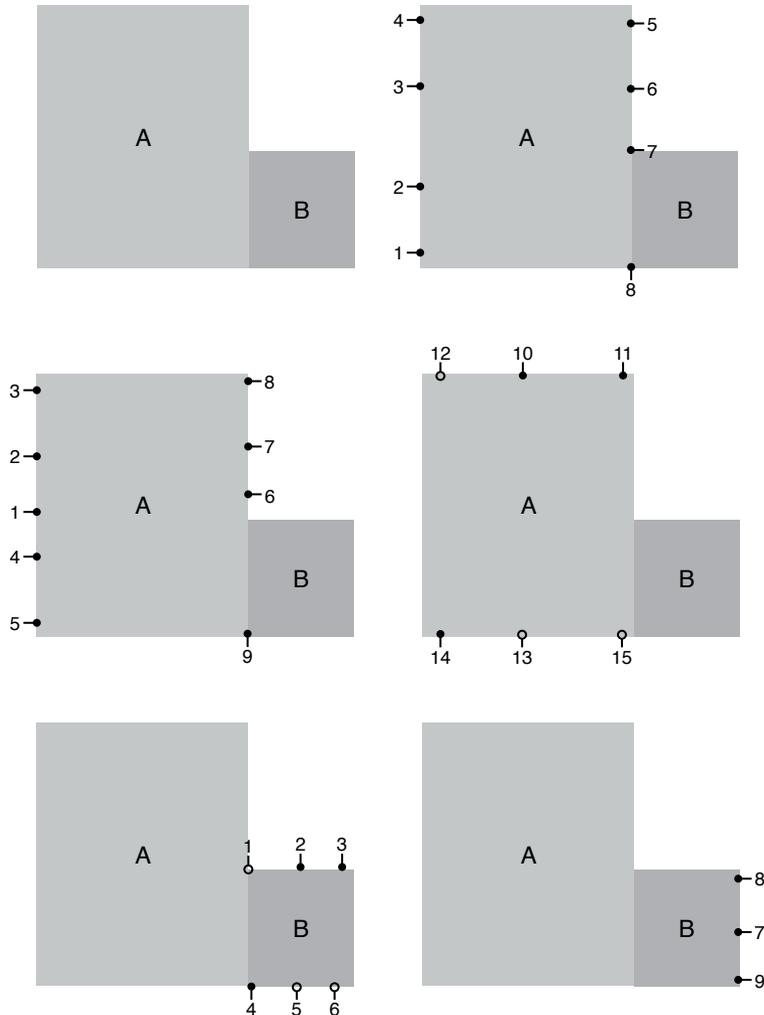
These work steps are repeated on the narrow sides (10-15).

Positioning, fastening, tensioning (Zone B)

The ceiling is cut into up to the inner corner (1) (please see item P5.5). From there, the stretched ceiling is fastened into the DESCOR® profile at a distance of about 40 cm. This process is repeated up to about 20 cm before the end of the next corner (1-3). $\leftarrow 20 \cdot 40 \cdot 40 \cdot \dots \cdot 40 \cdot 40 \cdot 20 \rightarrow$

Then the opposite side is fastened into the DESCOR® profile (4-6). The last side is tensioned starting from the middle in the same procedure and then retightened at a distance of 20 cm.

Then the complete clamping into the DESCOR® profile takes place.

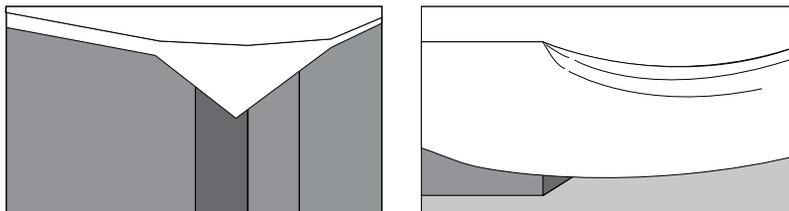
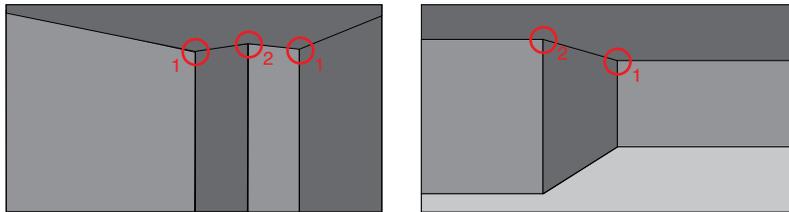


Sketch S51-S56 - installation of complex ceiling systems

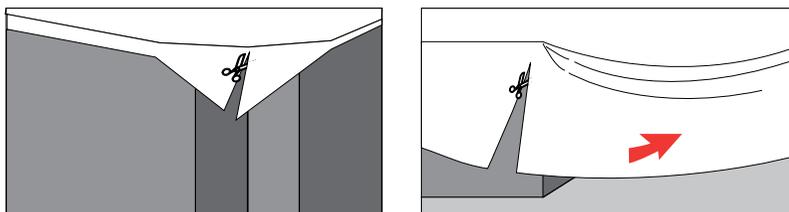
5. The installation

5.5 Finishing of corners

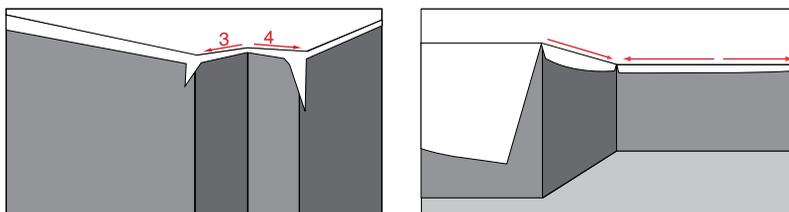
Inner (1) and outer (2) corners are treated differently.



After the grouting in of the ceiling, a tension forms on the outer corners.



The textile is now cut into with the scissors, up to the inner lip.



Starting at the outer corners, now the material is incorporated into the profile alternately to the left and the right (3-4).

When the whole ceiling has been tensioned, then the corners are carefully prepared.

Sketch S57-64 - corner preparation

6. Acoustic solutions

6.1 Acoustics and decoration for walls and ceilings

Through the use of DESCOR[®] PREMIUM acoustic a pleasant room atmosphere is created. This is achieved through an acoustic correction that results in improved room acoustics. The system contributes to a reduced sound transfer of airborne sound and structure-borne sound. Through the structure, the reverberation time in rooms is considerably reduced.

DESCOR[®] PREMIUM acoustic

The invisible microperforation in combination with further insulating material (e.g. PONGS[®] acoustic fleece) enhances the acoustic effect.

Acoustic correction

Great decrease of the sound level (acoustic correction) in reverberant spaces in connection with insulation panels.

Sound insulation in connection with a plasterboard and insulating material for noise barriers, separating walls etc.

Decoration

DESCOR[®] PREMIUM acoustic is available in the colors natural white and black, also customizable in individual UV digital printing procedure (images/ logos).

Structure

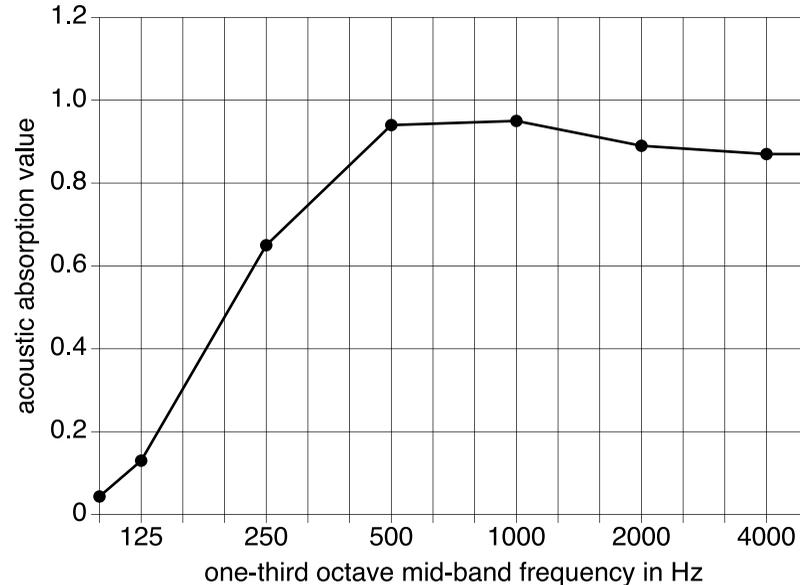
The system consists of an insulating material (absorber) and the micro-perforated acoustic paneling DESCOR[®] PREMIUM acoustic.

Fields of application

Living rooms, teaching rooms, business rooms and conference rooms, restaurants, sports centers, lobbies, in new builds, during renovation and for retrofitting

Improvement of acoustic conditions

With DESCOR[®] PREMIUM acoustic the acoustic conditions in rooms are considerably improved.



Design type E-50 in accordance with DIN EN ISO 354, lying on the echo chamber floor DESCOR[®] PREMIUM acoustic in front of 50 mm air space coated with 40 mm ISOVER SSP 2

weighted sound absorption coefficient α_w 0.90
sound absorption class A

This procedure is about achieving good comprehensibility of the acoustic message, avoiding the "cocktail party effect", as well as guaranteeing an improved and corrected homogeneity of the sound field, with reference to level and frequency. Whereby the use of an acoustician is necessary in certain situations.

The perfect combination of acoustic performance and esthetics.

6.2 Fastening of acoustic materials

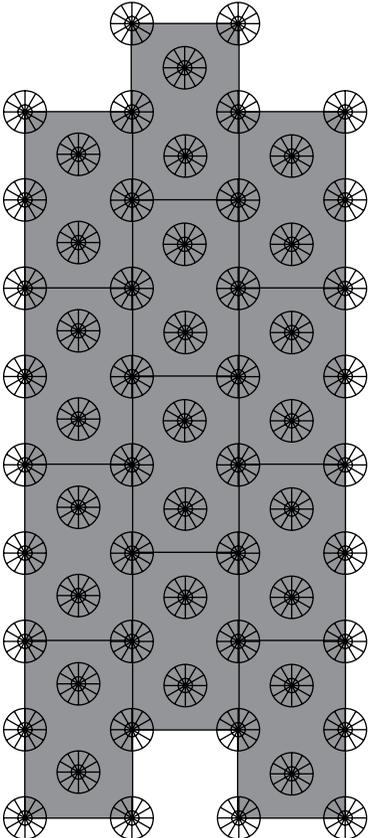
Type of insulation	Supporting surface	Type of fastening	Fastening of insulating materials
PONGS [®] acoustic fleece/ ISOVER SSP 2 panel	Wood	Insulation fixing with screw	 <p>The fastening must always be adapted to the insulation used. Possible varieties, depending on the supporting surface, are: Insulation fixing, assembly or spray adhesive</p>
	Hollow bricks	Insulation fixing with tensioner	
	Plasterboard		
	Plaster	Insulation holder with knock-in dowel	
	Concrete		

Table T06 - types of fastening

6.3 System structure for ceilings

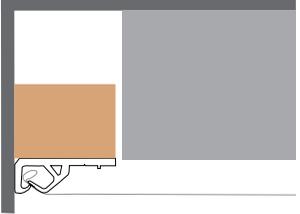
	Distance (in mm)	Absorber(s)	Weighted sound absorption coefficient α_w	Sound absorption class
	≥ 50	1x ISOVER SSP 2 (40 mm) 1x DESCOR [®] PREMIUM acoustic	0.90	A

Table T07 - system construction - ceiling

6.4 System structure for walls

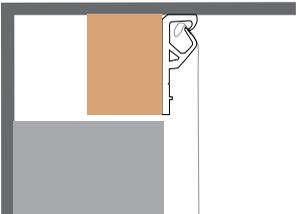
	Distance (in mm)	Absorber(s)	Weighted sound absorption coefficient α_w	Sound absorption class
	≥ 50	1x ISOVER SSP 2 (40 mm) 1x DESCOR [®] PREMIUM acoustic	0.90	A

Table T08 - system construction - wall



Technical assembly instructions

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www.pinterest.com/PONGSdesign



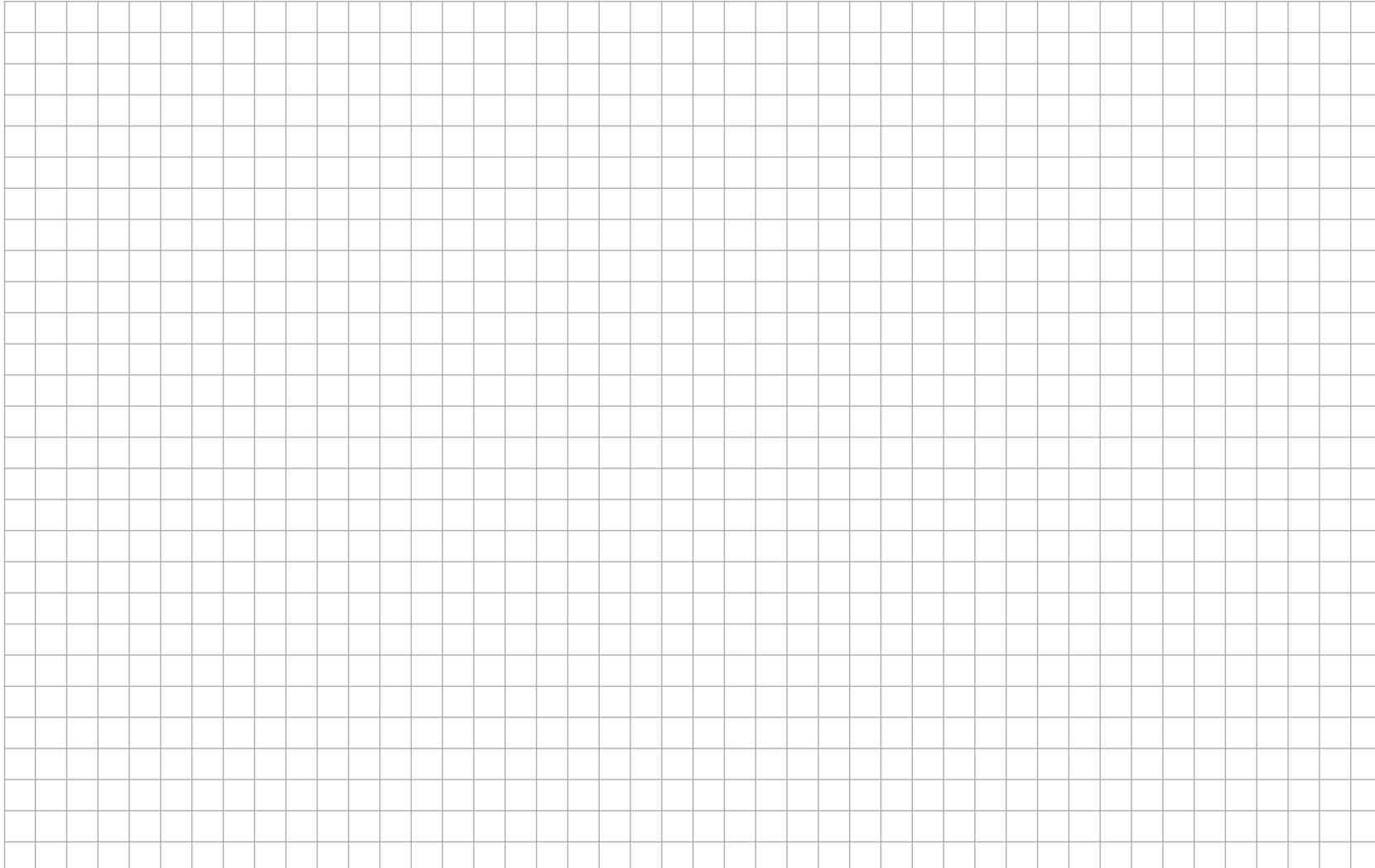
www.youtube.com/user/PONGSmedia



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www.pongs.com





Technical assembly instructions

Notes

A large, empty grid of small squares, intended for taking notes or drawing technical diagrams. The grid consists of approximately 30 columns and 30 rows of squares.

www.pongs.com